

ST JAMES'S HOSPITAL
Annual Report 2020



CEO Address



At the beginning of 2020, our nation was faced with our biggest healthcare emergency to date; Covid-19. In March, we cared for our first Covid-19 positive patient in the hospital. As the weeks passed and the number of Covid-19 patients increased, wards were repurposed in response to the emerging pandemic. This resulted in a series of major changes being undertaken in the hospital in order to protect our patients and staff.

March 2020 continued to present challenges for all our services in the hospital. New ways of working, including working from home, and an increase

in the use of digital information and communication technologies (telehealth), were called upon to reduce the footfall on the campus. Our outpatient services reopened in mid-June to a more staggered appointment allocation and infrastructural changes such as shifted clinical spaces and adjustments to room allocations were put in place to facilitate social distancing.

In June 2020, I took over as Chief Executive of the hospital. Having previously worked in St James's Hospital for six years I know first-hand the extraordinary commitment of management and staff throughout the hospital to constantly improve the care delivered to patients. Never was this commitment more visible to the public than during the airing of the three-part documentary series from RTÉ Investigates. The documentaries were a testament to the St James's Hospital team working together, in front and behind of the camera, to deliver the best care to patients during an extremely difficult time.

Despite the ongoing pandemic, the hospital did not stand still. In October, the hospital launched the redesign of its public website; www.stjames.ie. In the same month, we celebrated the second anniversary of the implementation of our inpatient Electronic Patient Record (EPR).

In November 2020 the Trinity St James's Cancer Institute (TSJCI) formally received its Certificate of Accreditation and Designation from the OECl. Guest speakers at the virtual event included Minister for Health, Stephen Donnelly, TD, Professor Thierry Philip, President, OECl, Mr Simon Oberst, Chair, Accreditation and Designation Working Group, OECl.

In December, staff received a letter from President Michael D. Higgins, acknowledging the exceptional work they undertook throughout the year here in St James's Hospital. In the words of President Higgins; "Your commitment, empathy and generosity have provided a shining light throughout a dark and difficult time for our nation."

In December, we also signed a new Energy Performance Contract (EPC), the largest of its kind in Irish healthcare to date, which will deliver €26 million in guaranteed energy and operational savings. In addition, it will reduce the hospital's carbon footprint and electrical consumption.

Throughout the year our capital developments continued, including, to name but a few, the relocation of the Coronary Care Unit (CCU) to allow for the expansion of the ICU to accommodate additional ICU bed capacity for Covid risk patients, Haemophilia and Hepatology Assessment Unit expansion and Oncology Day Ward expansion.

Just before Christmas 2020, it was confirmed that St James's Hospital was chosen as one of the first sites to receive a limited batch of the Pfizer-BioNTech Covid-19 vaccine. The launch of the hospital's Covid-19 Vaccination Programme took place on 29 December and saw the first patient and healthcare worker in Ireland vaccinated against Covid-19.

Covid has been hard on everybody's lives but it has been particularly difficult on healthcare providers. While it has been a challenging year, the development of potential vaccines is very positive and we are all closely following progress in this regard.

Despite the disruptions of a global pandemic, we have, collectively, achieved so much. I also have many ambitious plans for the future of the campus, including investing in our infrastructure and improving the environment of care for our patients and staff, developing further our research, academia and innovation capability through the Academic Health Science Centre (AHSC) model, and embedding our links with the local community.

I have presented my plans to the Hospital Board under eight strategic programmes and I look forward to working with staff across the hospital in delivering these ambitious plans for our campus.

Thank you all for everything you have done and continue to do for our patients.

Regards,
Mary Day
CEO







St James's Hospital

Vision, Purpose and Values

Vision

To be a leading healthcare organisation, nationally and internationally, improving health outcomes through collaboration and innovation.

Purpose

To provide the best care to every patient through our personal and shared commitment to excellence in clinical practice, education, research and innovation, while fostering our partnership with Trinity College Dublin.

Values

Patients matter most to us.

We provide care that is safe, effective and accessible so that our patients achieve the best possible outcomes and experiences of care.

Respecting people

Being kind and honest, promoting diversity, collaboration, personal and professional development.

Innovating and sharing knowledge

We learn, teach, research and innovate to improve health and well-being.

Using resources wisely

Delivering value, working efficiently and protecting the environment.

SUMMARY:

patients, respect, knowledge and resources

1 INTRODUCTION

8 1.1 Corporate Structure

Governance and Executive
Executive Management Group

10 1.2 Legal and Banking

2 EXECUTIVE REPORT

12 2.1 Performance Highlights

3 CORPORATE DIRECTORATE REPORTS

14 3.1 Finance Department

Transaction Processing Units, including Accounts Payable/ Settlements, Accounts Receivable and Payroll. Technical Expertise Units; Compliance, SAP Support, and Procurement. The Decision Support Unit; Clinical Funding Unit and Management Accounts.

16 3.2 Human Resources

HR Business Teams, Centre for Learning & Development, Workforce Information, Occupational Health, Medical Workforce Unit, Employee Relations, and Superannuation.

20 3.3 Nursing Services

Nursing Administration, Breastcare Practice, End-of-Life-Care, Nursing Practice Development Unit.

25 3.4 Internal Audit

26 3.5 Informatics Directorate

28 3.6 Facilities Management

Catering, Housekeeping, Laundry, Security, Portering, Tele-communications, Environmental, Chaplaincy, Fire Safety Services, Organisational Health and Safety, Medical Records Management, Technical Services.

4 CLINICAL DIRECTORATE REPORTS

32 4.1 Haematology, Oncology, Palliative Care (HOPE)

Haematology, Medical Oncology including Cancer Genetics, Palliative Care, Psychological Medicine and Radiation Oncology. The National Centre for Adult Bone Marrow Transplantation and the National Coagulation Centre.

42 4.2 Medicine for the Elderly (MedEl)

The Mercer's Institute for Successful Ageing Unit, Stroke Service, Bone Health and Osteoporosis, Unit, Falls and Syncope Unit, Local Asset Mapping Project, The Irish Longitudinal Study on Ageing, Dementia Services Information and Development Centre.



44 **4.3 Medical and Emergency (MED)**

Acute Floor (Accident and Emergency), Nurse Education, Clinical Placement, Advanced Nurse Practitioner Clinical Activity, Education Activity, Professional Development Activity and Representation, Emergency Department Activity, Cardiology, Dermatology, Endocrinology/ Diabetic Day Centre (DDC), Genito-Urinary Medicine and Infectious Diseases (GUIDe) Clinic, Hepatology Centre, Respiratory Medicine and the Respiratory Assessment Unit, Rheumatology, Neurology, Neurophysiology, Ophthalmology, Gastroenterology and Endoscopy Unit, Clinical Immunology, Nephrology and Dialysis.

46 **4.4 Surgery, Anaesthesia and Critical Care (SACC)**

Anaesthesia and Pre-assessment, Breastcare, Cardiothoracic Surgery, Critical Care, Upper and Lower Gastrointestinal Surgery to include General Surgery, Gynaecology, Oral and Maxillofacial Surgery, Orthodontics, Prosthodontics and Cleft ambulatory care, Orthopaedics, Otolaryngology, Plastics, Reconstructive and Burn Surgery, Acute and Chronic Pain Management, Vascular Surgery and Urology and The Hospital Sterile Unit.

48 **4.5 Laboratory Medicine (LabMed)**

Biochemistry (including Point of Care Testing), Cancer Molecular Diagnostics, Haematology (incorporating Coagulation and Cryobiology), Histopathology (incorporating Cytopathology), Immunology, The Irish Mycobacteria Reference Laboratory (IMRL) Microbiology (incorporating Virology and Infection Prevention and Control), The National MRSA Reference Laboratory (NMRSARL), Phlebotomy and Transfusion Medicine (incorporating Haemovigilance).

50 **4.6 Diagnostic Imaging**

Imaging services include CT, MRI, ultrasound, breast imaging, nuclear medicine, PET/CT, interventional radiology and general X-ray. A radiographic service is also provided to the Cardiac Cath Lab, Endovascular Suite, Endoscopy, DEXA Scanning and Theatres.

5 **CLINICAL SUPPORT SERVICES**

52 **5.1 Speech and Language Therapy, Medical Social Work, Clinical Nutrition, Occupational Therapy, Physiotherapy (SCOPE)**

Speech and Language Therapy, Medical Social Work, Clinical Nutrition, Occupational Therapy, Physiotherapy.

54 **5.2 Pharmacy**

Pharmacy Department, Clinical Pharmacy Service, Dispensary and Distribution Service, Aseptic Compounding Services, National Medicines Information Centre (NMIC), Centre for Advances.

55 **5.3 National Medicines Information Centre (NMIC)**

6 **EDUCATION AND RESEARCH**

56 **6.1 The William Stokes Postgraduate Centre**

7 **RESEARCH AND DEVELOPMENT HUB**

58 **7.1 Clinical Research Facility**

60 **7.2 Research and Information Office (R&I Office)**

8 **PROGRAMME DIVISION REPORTS**

64 **8.1 Quality and Safety Improvement**

9 **PATIENT GROUP**

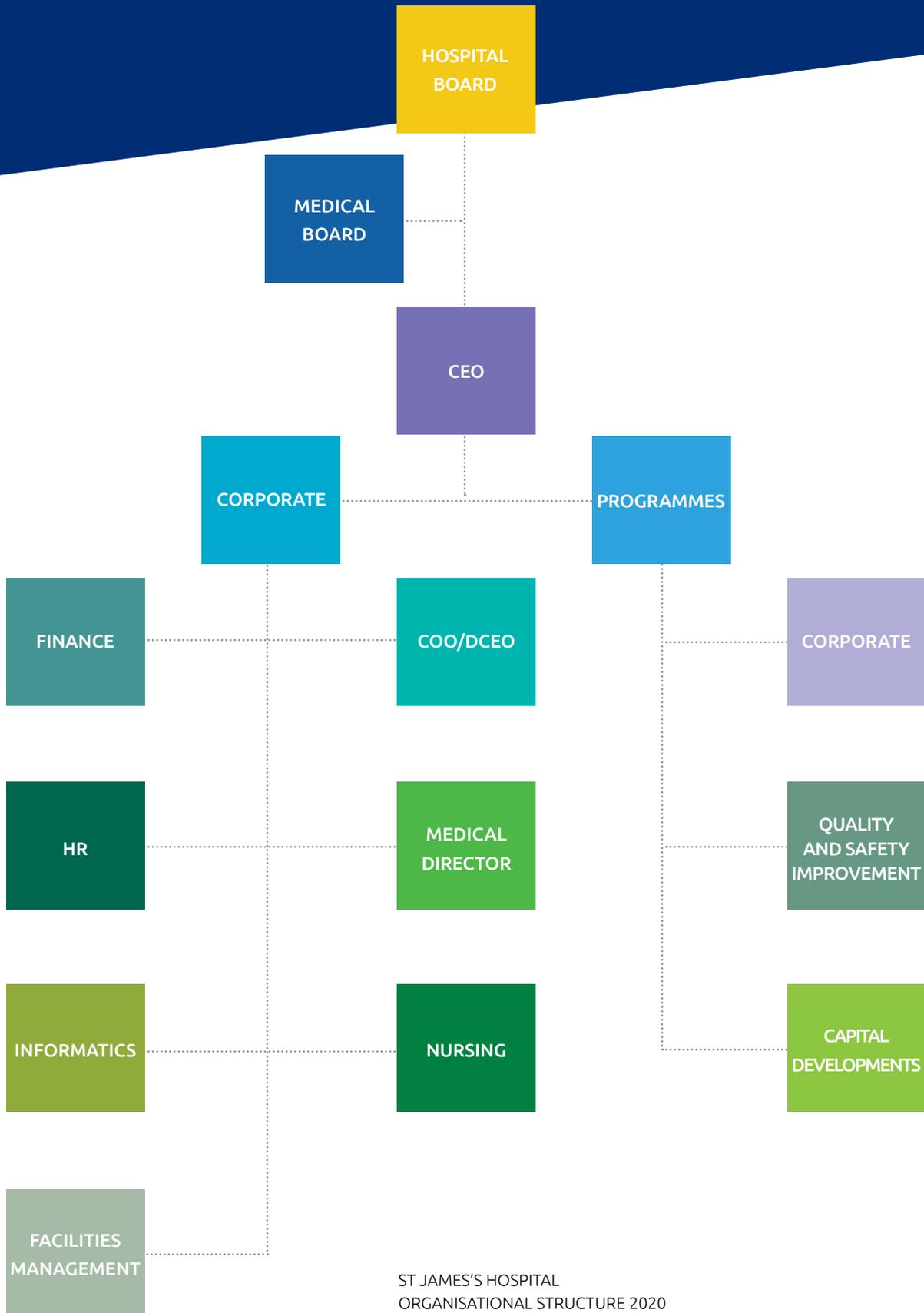
66 **9.1 Patient Representative Group**

10 **PUBLICATIONS**

68 **10.1 Publications**



1.1 Corporate Structure



ST JAMES'S HOSPITAL
ORGANISATIONAL STRUCTURE 2020

1.1 Corporate Structure

Executive Management Group Members 2020

1. Mr Lorcan Birthistle, CEO, January – June / Ms Mary Day, CEO, June - December
2. Ms Ann Dalton, Deputy CEO
3. Dr Finbarr O'Connell, Executive Medical Director
4. Ms Sharon Slattery, Director of Nursing
5. Mr Noel Gorman, Chief Operations Officer, November – December
6. Ms Eileen O'Connor, Interim Director of Finance
7. Dr Una Geary, Director of Quality, Safety and Improvement (QSID)
8. Mr Niall McElwee, Director of Capital Projects
9. Mr Vincent Callan, Director of Facilities Management
10. Mr Hugh Duggan, Director of Human Resources
11. Ms Gemma Garvan, Director of Informatics
12. Prof. Ciaran Johnson, Clinical Director, Diagnostic Imaging Directorate (DiagIm)
13. Prof. Conal Cunningham, Clinical, Director Medicine for the Elderly Directorate (MedEl)
14. Mr Vincent Young, Clinical, Director, Surgery, Anaesthesia and Critical Care Directorate (SACC)
15. Prof. Declan Byrne, Clinical Director, Medical and Emergency Directorate (MED)
16. Dr Brian O'Connell, Clinical, Director, Laboratory Medicine Directorate (LabMed)
17. Dr John Cooney, Clinical, Director, Haematology, Oncology and Palliative Care Directorate (HOPE)

1.2 Legal and Banking

Bankers

Bank of Ireland
85 James Street
Dublin 8

Auditor

Controller and Auditor General
3A Mayor Street Upper
Dublin 1
D01 PF72

Solicitors

A&L Goodbody Solicitors
I.F.S.C.
25/28 North Wall Quay
Dublin 1

Insurance Broker

AON Insurance





2.1 Performance Highlights

ACTIVITY Levels for 2020

Period Jan - Dec 2020	2020 Activity	
	Acute Ward In-patient Discharges	Day Cases
Cardiology	2,509	1,270
Dermatology	11	2,463
ENT	284	183
General Surgery	2,118	3,322
GUIDE	502	5,577
Gynaecology	520	236
Haematology	960	7,101
Maxillo Facial	580	313
Medicine	6,516	12,199
Medicine for the Elderly	1,370	1,673
Oncology	1,251	9,880
Orthopaedics	904	389
Plastic Surgery	717	2,033
Radiotherapy	86	0
Rheumatology	647	244
Psychiatry	3	5
Cardio-Thoracic Surgery	680	28
Urology	676	1,209
Vascular Surgery	324	423
Total Acute Activity	20,658	48,548

Period Jan - Dec 2020	2020 Non Acute Ward In-patient Discharges
Medicine for the Elderly	783
Medicine	24
Orthopaedics	1
Psychiatry	321
Total Non Acute Activity	1,129



65,620
NEW OUT-PATIENT
ATTENDANCES

Out-Patient Activity 2020		
	New	Return
Attendances	65,620	203,437



20,658
ACUTE WARD
IN-PATIENT DISCHARGES

* 2020 activity was affected by the Covid-19 pandemic

Note 1: Medicine Inpatients includes: Respiratory/ Endocrine/ Gastroenterology/ Neurology/ Nephrology/ Immunology/ Pain Management/ General Medical.

Note 2: Medicine Daycases includes: Respiratory/ Gastroenterology/ Neurology/ Nephrology/ Pain Therapy/ Anaesthesiology/ General Medicine.

Note 3: Outpatient consultant and nurse-led activity.

3.1 Finance Department

The Finance Directorate incorporates three main divisions:

- The Transaction Processing Unit (TPU), including Accounts Payable/ Settlements Unit, Accounts Receivable and the Payroll Unit
- The Technical Expertise Unit, comprising of the Compliance Unit (CU), SAP Support Unit (SSU) and the Procurement Unit
- The Decision Support Unit, which includes the Clinical Funding Unit and the Management Accounts Unit.

The Finance Directorate currently operates over two main sites; the TPU, CU and SSU are based offsite at the Brickfield Campus with the remaining units based onsite within St James's Hospital.

The **TPUs** have significant experience and expertise in all transactions that are processed. The **Payroll Unit** processes payroll for over 5,000 employees and has extremely efficient controls and process in place, most of which are either electronic or online.

The **Accounts Payable/Settlements Unit** processes all invoices. It predominantly receives invoices electronically, allowing them to be directly uploaded without human intervention. The **Accounts Receivable Unit** invoices and collects over €80m in revenue.

The **Technical Expertise Unit** is second to none. The **SSU** ensures the financial integrity of the SAP system and provides invaluable project management expertise. The **CU** ensures that robust controls and processes are in place for all areas of transaction processing. The **Procurement Unit** provides procurement expertise, assists directorates in identifying value for money initiatives through market engagement, provides oversight of the national factor blood budget and ensures the hospital is compliant with all procurement legislation.

The **Decision Support Unit** has been a national leader in its ability to deliver information to end-users. The core elements of the unit are developing expertise in patient-level costing and the new funding model (Activity Based Funding) with a real focus on patient-level data that drives accurate costing and ensures clinical activity is coded correctly, which in turn drives the revenue.

The **Management Accounts team**, within the Decision Support Unit, encompasses several business partners who are providing the directorates with a significant amount of financial expertise and guidance in service developments, identifying efficiencies and focusing on value for money initiatives. Finally, the **Finance Data Science team** supports data-driven decision-making hospital-wide, through the development of visual dashboards and the automation of repetitive processes.



**THE ACCOUNTS RECEIVABLE UNIT
INVOICES AND COLLECTS OVER
€80M IN REVENUE**

Performance Highlights

Key highlights in 2020 include the financial performance of the hospital. The Financial Statements for the reporting period 1 January 2020 to 31 December 2020 resulted in a surplus of €2.80m. The hospital's gross expenditure was €515.51m while the income and exchequer funding amounted to €520.59m. The closing surplus now stands at €5.08m (2019: €2.28m).

COVID-19 brought many changes throughout the hospital which, in turn, had an economic impact.

- The Decision Support Unit and the Finance Data Science Unit provided tracking functionality and reporting on the costs related to COVID-19 to enable the detailed provision of analytics, reports and forecasts on the financial impact to the HSE and all applicable stakeholders.
- The Procurement Department also provided fully-focused resources and skills both in conjunction with HSE procurement and for SJH projects, to ensure successful, prompt sourcing of vital ICU equipment and PPE.

The Finance Directorate continued to support the strategic vision of the hospital in 2020 through engagement with the other directorates. The Finance and Procurement Departments provided significant support to the Facilities Management Directorate in the procurement, definition and implementation of the revolutionary hospital-wide Energy Performance Contract (EPC). This long term contract provides for the cost-effective and immediate replacement and management of large key energy infrastructure with appropriately scaled, energy-efficient equipment. The energy efficiency improvement and consequent cost savings of the new equipment and its management, coupled with a complex financial contract, enables the hospital to achieve this immediate improvement within current budgets.

Another successful project in 2020 was the development of a secure file transfer protocol (SFTP) server to facilitate file transfers from designated servers on the internet and the St James's Hospital file server cluster, hosted in the HSE private cloud. This was seamlessly rolled out by the SSU which has resulted in a maximum-security environment of the storage and transfer of financial data.

The Decision Support Unit, the CU and the Finance Data Science Unit continued to facilitate efficiencies and new ways of working via robotics, data science and business intelligence. Key highlights included:

- The redesign and automation of directorate visual dashboards to support directorate decision-making and the development of nursing dashboards. This improved insight generation from available financial data. These have been enhanced through stakeholder engagement and end-user feedback
- Robotic process automation (RPA) capabilities continued to be developed, resulting in a successful pilot to use programmed RPA to automate some of the repetitive reporting and data extraction, and improved process efficiency for specific tasks
- The automation of daily banking reporting within the CU, providing real-time information to enhance cash flow management and decision making.



**COVID-19
BROUGHT MANY CHANGES
THROUGHOUT THE HOSPITAL WHICH, IN
TURN, HAD AN ECONOMIC IMPACT**

Objectives for 2021

The Finance Directorate aims to continue with this approach of constant improvement in all processes in the year ahead, and automating processes that will prove beneficial to all stakeholders.

3.2 Human Resources

The Human Resources (HR) Directorate plays a central role in shaping the organisation through the planning and delivery of HR programmes, processes and policies that support the hospital successfully, meeting local and national key performance indicators in accordance with its mission, vision and values. Its divisions include; HR Service Teams, Medical Workforce Unit, Employee Relations, Centre for Learning and Development, Equality & Diversity, Workforce Information & Planning Unit, and Occupational Health.

Performance Highlights

HR Service Teams 2020

With the onset of the COVID-19, there was an immediate response required to increase recruitment activity for specific posts across all disciplines and levels while dealing with the established demands of recruiting and starting approximately 900 staff each year. The HR Directorate:

- Achieved and maintained a 95% vacancy fill rate across nursing, including specialist areas of the Intensive Care Unit (ICU)/High Dependency Unit (HDU) and Critical Care, despite COVID-19
- Re-engaged nursing professionals through re-hire/ reappointment from retirement
- Reorganised and recruited nursing students to help support healthcare initiatives in ICU and other acute areas
- Recruited additional specialist roles, such as; Occupational Health and Infection Prevention and Control, to help manage risks to staff across the hospital
- Completed the Enhanced Nurse Contract Project (970 applications)
- Completed remaining grades due to the standardisation of terms and conditions around annual leave and working time (222 staff)
- Implemented 40+ HSE circulars around COVID-19 specific absence and salary entitlements
- Implemented a Remote Working Policy & Parents Leave Policy.

Medical Workforce Unit

- The Medical Workforce Unit had a successful recruitment campaign for the July 2020 intake of non-consultant hospital doctors (NCHDs) - circa 370 posts. Full recruitment and employment were achieved to deliver safe service for the patients of St James's Hospital
- There were thirteen permanent consultant appointments made, with the breakdown being nine new posts and four replacement posts.



**IMPLEMENTED
40+ HSE CIRCULARS
AROUND COVID-19 SPECIFIC ABSENCE
AND SALARY ENTITLEMENTS**

Equality & Diversity

We continue to work well with our union partners within the hospital addressing day to day developments and larger projects effectively, and continue to refine staff training courses like our Managing People training course.

Workforce Information Unit

- **Salary Administration**
 - All KPIs, monthly EMG and Board reports were produced on time, in conjunction with implementing reviewed reporting requirements for new directorate meetings.
 - Two pay awards were also processed throughout the year. A January 2020 pay award equating to 0.5% was implemented for all staff earning up to €32,000 while a general 2% pay award was implemented for all staff.

- **Organisation Management**

2020 was a challenging year due to COVID-19, with increased demands on changes to positions and new/dedicated positions created in addition to the business as usual activity.

- Overall over 320 positions were created on the SAP HR system in 2020

- **SAP HR**

In addition to day to day support to all SAP HR and payroll clients, which generated over 900 calls, the team was asked to test and sign off on 298 change requests in 2020 (legislative/ budget/HSE etc.).

Employee Relations

We continue to work well with our union partners within the hospital, addressing day to day developments and larger projects effectively and continue to refine staff training courses like our Managing People Training Course (ceased temporarily in March 2020) which is now a popular and much-sought offering among the hospital staff (mainly front-line management).

Occupational Health

The SJH Occupational Health Department (OHD), faced exceptional challenges in 2020, above and beyond the usual requirements to promote and protect the health and wellbeing of over 4,500 staff, students and inductees.

- In response to COVID-19, the team expanded, engaging two extra part-time physicians, 3.5 permanent nurses, and a small number of additional administrative staff.
- The department temporarily relocated, extended its services to run over a 7-day basis and introduced new telehealth services for OHD and contact tracing services and support for staff, contractors and patients
- In the first COVID-19 surge, OHD provided 12,000 care episodes to 3,800 staff members (650 of these were contact tracing episodes only) with 25,000 phone calls made/received. By the end of 2020, OHD had provided 16,000 care episodes and contact tracing to approximately 4,500 individual staff members in the hospital
- Over the year, OHD took part in several research projects and adjusted SJH policies and practices as HSE and government policies evolved.

HR Projects

While this project was affected by the impact of COVID-19, we rebranded our Workforce Management Project to the more appropriate STARS (Staff Time Attendance e-Rostering System) project, engaging two staff members and progressed the appointment of a Project Manager.

Working with the Finance and IMS Directorates, we have refined the review and specification of the Recruitment and Candidate Management system and are moving this project forward.

Centre for Learning and Development (CLD)

SJH CLD is committed to enabling people to achieve their potential, enhancing the development of life-long learning skills while exploring directions for further progression. CLD provides accredited 3rd level programmes, partnering with bodies and third-level institutions such as Quality Qualifications Ireland (QQI), TCD and UCD. Our syllabus offers more than 140 courses to our staff.

2020 has been exceptional for CLD due to the constraints imposed on how education is delivered because of the COVID-19 pandemic. There were enormous requests for clinical education to assist staff in

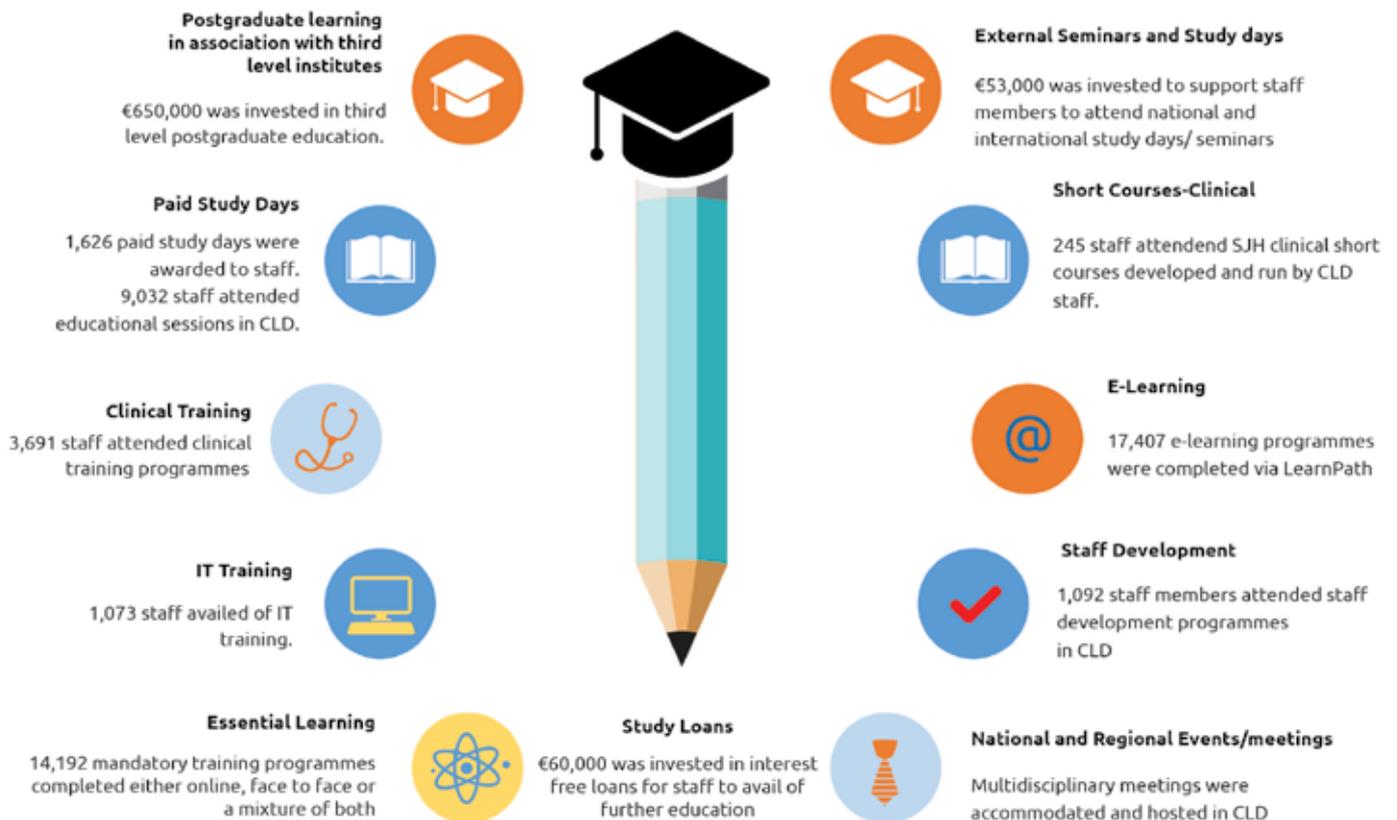
dealing with the challenges of looking after COVID-19 patients and for this training to be completed in a manner that respected staff safety and social distancing. This led to an abrupt change in the delivery of education, utilising technology rather than face to face education, which generated a steep learning curve for both those delivering and attending training in CLD.

Despite these challenges, CLD continued to innovate and deliver new inter-professional programmes including:

- Enhancing Emotional Intelligence through Myers Briggs®
- QQI Level 6, Management Essentials



CLD Activity Review 2020





3.3 Nursing Services

Nursing Administration and the Nursing Practice Development Unit (NPDU) oversee, co-ordinate and support all matters relating to professional nursing practice throughout the hospital. This includes recruitment and retention of nursing and healthcare assistant (HCA) staff; nursing practice development initiatives and projects; co-ordinating networks of communication for nursing developments; the promotion of nursing audit and the development of clinical nursing research.



2020 was designated as the 'Year of the Nurse & Midwife' by the World Health Organisation. In recognition of this momentous milestone in the history of nursing, the Nursing team organised various activities and celebrations throughout the year to mark this. The Year of the Nurse 2020 celebrations were officially launched at the St James's Hospital (SJH) Nursing Grand Rounds in January, with two exciting events:

1. Derek Brown, Registered Advanced Nurse Practitioner, Emergency Department, presented on 'SJH Nursing Past & Present'
2. The international leadership initiative of The Nightingale Nurses Programme, with over 30 nurses participating in this programme. The programme was developed to provide the participants with opportunities to enhance their understanding of nursing from a strategic and operational perspective throughout 2020. Unfortunately, this programme had to be put on hold during the year and will be revitalised in 2021.

On 4 February, the SJH Year of the Nurse Logo was unveiled by the Director of Nursing at Nursing Grand Rounds with the presentation of badges and the Timetable of Events planned for the year ahead.

To support and encourage new entries into the profession, a Transition Year (TY) Open Day was held in February 2020, which was attended by over 90 TY students across six different post-primary schools.

The feedback was positive on what was a great event. With the global Coronavirus pandemic, further celebrations and events were curtailed from March 2020. It is envisaged that the postponed events will be re-scheduled in 2021, once it is safe to do so.

"I wish to take this opportunity to say an earnest Thank You, both personally and professionally. I have been so proud of the manner that our diverse and dynamic nursing team, in carrying out its many roles and responsibilities within the organisation, continued to repeatedly place the patient at the centre of all that we do. Nursing and HCAs continued to provide invaluable support and care in the challenging and changing working environments throughout 2020."

**Sharon Slattery,
SJH Director of Nursing (DoN)**

This was evident throughout the RTÉ production 'RTÉ Investigates: Inside Ireland's COVID Battle'. Throughout the pandemic ensuring staff health and wellbeing was a priority and all steps were put in place to nurture each individual's personal health and wellbeing during this time. Due to patient safety concerns and restructuring of services, some of the nursing workforce were redeployed to set up new services and support the existing services. The Nursing team at all times demonstrated their professionalism and can-do attitude throughout this year.



Achievements in Nursing for 2020

Undergraduate Nursing

- 79 first year student nurses accepted places on the undergraduate Bachelor of Science Degree in Adult Nursing affiliated with Trinity College Dublin (TCD), School of Nursing & Midwifery (SNM).
- We welcomed back 71 nursing students in their second year undergraduate training who undertook both specialist and core clinical placements as part of their degree programme.
- 73 third year nursing students undertook their specialist and core clinical placements.
- Due to the pandemic and safety concerns, there was a deferral of the undergraduate supernumerary clinical placements. Nursing students in first to third year were affected by their withdrawal from clinical placement. In conjunction with our academic partner TCD, arrangements were established to support the supernumerary nursing students to facilitate the shortfall in their required clinical placement hours due to the interruption in their clinical placements towards the latter part of 2020.
- 71 fourth year nursing interns successfully graduated in November and were eligible on the General Nursing Division with the Nursing & Midwifery Board of Ireland (NMBI).
- 67 newly graduated nurses took up staff nurse positions in the hospital.

Post Graduate, Research and Advanced Practice Nursing

The Link Nurse Programme (LNP) was redesigned in 2020 to encourage engagement from new and existing Link Nurses (LNs). The LNP aims to train registered nurses in seven key areas, six of which are measured in the SJH Nursing Metrics. Link nurses are then empowered to take a lead on their specific area of practice in their ward/ unit with the overall aim to improve the standard of nursing care provided and the associated documentation compliance in relation to the specific area.

- 70 LNs were educated in; tissue viability, falls, urinary catheter care, central venous access devices, end of life care, infection prevention and control, and record keeping. The Link Nurse Activity Booklet was introduced as way for LNs to document their activities which could be used as part of their professional development plan.
- Year four of the SJH Rotation Programme successfully facilitated 16 newly qualified staff nurs-

es to gain experience in both surgical and medical areas within their first year post graduation. Due to the pandemic, the original plan for rotation nurses to rotate to their second ward mid-point of the year had to be rescheduled due to lockdown restrictions. All 16 nurses successfully completed the Rotation Programme in October 2020.

- Although recruitment of nursing staff throughout 2020 proved challenging due to the COVID-19 pandemic, 61 nurses were successfully adapted for registration with the NMBI in 2020. The New Compensation Measures for Nurses Trained Outside of Ireland, published by the NMBI, was introduced.
- In September 2020, the SJH Inaugural Nursing Conference was held in the John Durkan Theatre in the Trinity Health Sciences' Building in the SJH Hospital Campus and was streamed live via social media and virtual platforms. 26 posters from SJH nurses across various grades and specialities were also submitted and could be viewed in person and/ or the via virtual SJH Nursing Conference web platform. This conference was officially opened by our Director of Nursing Sharon Slattery. Keynote speakers included Annette Kennedy, Chair of the International Council of Nursing, Mary Day, SJH CEO, Eilish Hardiman, CEO of Children's Health Ireland and past SJH DoN, and Dr Fintan Sheerin, Head of the School of Nursing & Midwifery, TCD. SJH nurses from different grades and specialties presented at this conference showcasing and sharing the wide initiatives being undertaken to improve the quality of our patients' experience and safety being paramount in what we do. The SJH Nursing Conference was a resounding success with over 100 participants registering to attend on Eventbrite and 4.2K views on Facebook. We look forward to what will now be an annual event.

Nursing Research

- SJH was invited to participate in the Irish component of the Magnet for Europe Research Project for Health Professionals and Patients. This research programme will develop and implement a theory-based organisational redesign in 60 hospitals in five European countries, with stakeholder co-designed adaptations for Europe, one-to-one twinning of intervention with Magnet hospitals, and a learning collaborative with stakeholders to reshape our work environment which aims to improve the mental health and wellbeing of nurses and clinicians and consequently improve patient

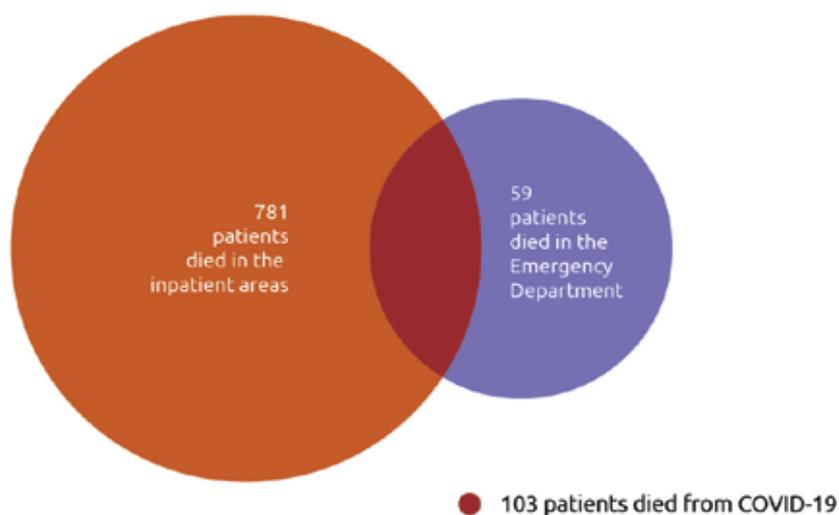
care and safety. SJH has been randomised to be in the first Group of the Magnet4Europe study. SJH's Magnet twin is part of Northwell Health Group - Northwell Long Island Jewish Medical Center, New York.

- The Nursing Metrics (NM) are quality care metrics designed to measure the quality of the care which nurses provide to our patients in SJH. In 2020, the Power Business Intelligence (BI) team and the nursing quality coordinator worked on integrating the point prevalence audits and the Power BI data so that the most up-to-date Power BI data (patient care metrics and IView data quality) was incorporated as part of the overall NMs audits. The data was rolled pan-hospital in Q3 2020. As part of the NMs redesign, the National Patient Experience tool (for inpatients) was adapted to mirror some elements of the patient experience. This now provides the opportunity to quantify our inpatients experience of nursing care as well as qualitative thematic analysis of our patient feedback.
- Registered Nurse Prescribing (RNP) continues to develop pan-organisation. The RNP site coordinators have updated the nurse prescribing policy to incorporate the nurse prescribing agreement (NPA) which replaces the collaborative practice agreement (CPA). This policy is currently being reviewed by the Nurse Prescribing Sub-Committee and the Pharmacy and Therapeutics Committee. It is envisaged that the policy, along with the NPA, will be operationalised in Q1, 2021. There are currently 38 nurse prescribers in SJH. Eleven candidate nurse prescribers commenced the Nurse Prescribing Course in 2020 with plans for an additional ten candidate nurse prescribers to commence this programme in January 2021.
- Advancing nursing practice continues with ongoing education support for nurses and HCAs. There are 26 registered advanced nurse practitioners (RANPs) in SJH, with two of these registering in 2020. The establishment of the Critical Care ANP Service has been welcomed, with the appointment 3 Candidate ANPs to the service in 2020.

End of Life Care Programme (EOLC)

In 2020, 840 patients died in SJH, 781 of those in the inpatient areas and 59 in the Emergency Department. This is a considerable number of deaths in view of the hospital's varying reduced bed occupancy during the COVID-19 Pandemic. 103 patients died from COVID-19, creating unprecedented practical and emotional challenges for care staff. 84.6% of deaths took place in single occupancy room, well above the 80% target KPI for deaths in single rooms. The EOLC Programme through its five core activity pillars (audit & research, training & education, advocacy, improving the hospital environment and practical resources for relatives) continued to enable the capacity of the hospital to meet exemplar quality standards for EOLC throughout this unprecedented period.

Number of Deaths 2020



Patient-centred initiatives

Due to the pandemic, all non-essential visiting ceased from March 2020. To support both patients and families during this time of loneliness and isolation, two nurse-led initiatives were established.

1. The Virtual Visiting Service: Through sponsorship and generous donations, all wards now have electronic tablet devices available to connect inpatients (those not independently digitally literate) with their families and significant others. However, some vulnerable patients lack the ability to connect virtually with their families due to the nature of acute or chronic reduced physical or cognitive capacity. These patients require additional supports to enable them communicate through this novel communication medium, which are provided through the Virtual Visiting Service.
2. "Thinking of You" is a dedicated email service which allows family and friends to contact inpatients through email and letting them know they care. These emails were printed and hand delivered to the patients. Both these services have been a lifeline for SJH patients and families throughout the pandemic.
3. Dynamic members of the SJH Nursing team successfully established the COVID-19 Staff Contact Tracing Service and the COVID-19 Healthcare Workers and Patients Vaccination Programme. These initiatives demonstrate the advanced competency and leadership abilities of the Nursing team.
4. The Framework for Safe Nurse Staffing and Skill Mix in General and Specialist Medical and Surgical Care Settings was a welcomed project during 2020 which SJH nursing embraced. The core objective of the framework is to determine the safe nurse staffing and skill mix (whereby nurse staffing refers to the nursing team, including both the nurse and HCA roles) across the hospital. Nursing is actively welcomed and engaged in the introduction of this exciting framework. Recruitment remained ongoing throughout the year.
5. Simultaneously, the Nursing team progressed the Enhanced Care Model. This exciting new model of care for patients who need dedicated one to one or enhanced care will be delivered by a team of specially trained HCAs, supported by the nursing team on the ward. Both these initiatives were delayed by COVID-19 during 2020 and remain active projects for the forthcoming year.

Retirements

To all of our nursing colleagues who retired this year, thank you all for your support and dedication throughout the years and wishing you good health and happiness in your next chapter. A special acknowledgement goes to Catherine Breen, DoN Personal Assistant, who after 26 years, and who supported all nurses throughout her years, retired in March 2020.

"Many retired nurses answered the 'St James's COVID-19 back to work call' and came out of retirement. My heartfelt gratitude is extended to you all for temporarily suspending your retirements and supporting the SJH Nursing team and wider community in one of the most challenging years of our time."

Sharon Slattery,
SJH Director of Nursing (DoN)

Plans for 2021

In 2021 we will review, redesign and strengthen the existing structures through:

- Improving all patients' experience in both the ambulatory and inpatient settings through the Safe Staffing Framework and the Enhance Care Observation Programmes
 - Redevelopment and expansion of the HCA role through competencies and assessment while supporting ongoing education and training on the Level 5 QQI/ FET Programme and the Who Does What, Where, When Programme, adapted pan-hospital
 - Active participation as we embrace the Magnet for Europe Research Programme
 - Continuing to relish the opportunities to engage in OECL accreditation.
 - Continuing to collaborate with TCD School of Nursing and Midwifery in building capacity within nursing to make more substantial contribution to leading nursing research agenda in Ireland and internationally
 - The retention, recruitment and development of both nursing and HCA staff
 - Developing and advancing nursing education, research and clinical competence as we strive to provide quality patient-focused care as leaders in healthcare.
-

3.4 Internal Audit

The Head of Internal Audit reports to the Chairperson of the Audit and Risk Committee, a hyphenate subcommittee of the Hospital Board, on all operational matters. This ensures independence and direct access to the Hospital Chairman and Board if necessary. The Head of Internal Audit reports to the CEO on all functional matters.

The Annual Internal Audit Programme is a vital document as it determines the internal audit work for the year ahead. This programme is informed by previous audits and outcomes, items identified by the Office of the Comptroller and Auditor General (C&AG) or the HSE on local and national issues.

Performance Highlights

The following audits were among those reported to the Audit and Risk Committee in 2020:

- Internal Financial Controls
- Follow up on previous recommendations
- Charities Code of Practice – Gap analysis
- Capital Project Management
- Climate Change Procedures
- EPR Access



3.5 Informatics Directorate

The Informatics Directorate led by the Director of Informatics, Ms Gemma Garvan constitutes a number of areas that all have a strong focus on the use and quality of technology, innovation and information in the care and treatment of patients, as well as supporting the corporate needs of the hospital.

The mission of the IMS Department is to provide an innovative and resilient framework of information services to support all aspects of the hospital's business. This includes the implementation and configuration of clinical and corporate IT systems, as well as support of the underlying technology.

The department was restructured in 2019 to reflect the changing focus on digital across healthcare and within St James's hospital. Our directorate now contains five pillars; Informatics Operations, Informatics Security, Data and Analytics, Engagement and Delivery and Enterprise Architecture.

The management team for the directorate includes:

- Finian Lynam, Chief Data Officer
- John Nolan, Chief Information Security Officer
- Miriam Roche, Engagement and Delivery Lead
- Grainne Courtney, Chief Clinical Information Officer
- Jo Murphy, Chief Informatics Operations Officer

Performance Highlights 2020

The Informatics Directorate continued to provide a professional and timely service to all our end users. The COVID-19 pandemic led to extraordinary demands on the directorate, technology requirements for ICU expansion, patient video conference, and supporting staff working from home with software and hardware requirements. Our focus for 2020 was to meet these new demands and continue to progress the priority programmes of work.

- Implemented a Cardiovascular Information System with the Cardiology Team
- Upgraded the National Coagulation Disorders Information System
- Security Operations Centre and firewall replacement/upgrade
- Commencement of the EPR Cerner Hosted Solution (TMS) Project
- New public website redesigned with the introduction of chatbot functionality
- Development of a COVID Database for the Occupational Health Service, contract tracing, staff derogations, Manager System access and audit

- 36,781 service desk calls for 2020 (22% increase on 2019), with 45% dealt with within 30 minutes
- 1447 hardware devices installed (the majority of which, related to the implications of COVID-19)
- Replacement text messaging system
- Expansion of ICCA, our ICU System, and ICT equipment
- Expansion of remote working infrastructure
- Commencement of MyPatientSpace & MyStaffSpace apps for secure staff and patient communications
- Single sign-on service implementation in our Emergency Department to increase staff efficiency and improve information governance.

Electronic Patient Management System Enhancements

- Several electronic consultation referrals were created to remove the risk of paper referrals getting lost, such as Bronchoscopy, Cystoscopy and others
- Changes to the doctor's worklist to display critical clinical information on multiple patients, particularly for COVID patients, facilitating early transfer to ICU for the most unwell patients
- Implementation of Outpatient Department (OPD) documentation to facilitate virtual clinics, with an emphasis on identifying the correct patient – standardised to all OPD templates
- Home oximetry monitoring to facilitate early discharge of COVID patients with home oxygen monitoring
- Enabling electronic prescriptions to Healthmail pharmacies

Internet / Email

Our websites with 803,643 visitors (public website) are a source of information for its key audiences, focusing on patients, visitors, GP's/healthcare professionals, job seekers and other major stakeholders. The new public website was launched in October 2020. The priority was to deliver an innovative, user-friendly and fully responsive site for all its service users.

Objectives for 2021

- Leverage the focus on virtual health brought in as a result of the COVID restrictions within the hospital, to enable sustainable new ways of delivering care virtually
- Facilitate the introduction of the Ambulatory Care Institute as a digital institute
- Work with the HSE, the Dublin Midlands Hospital Group and our Finance Directorate to introduce

a new model of funding support that reflects the move to a revenue recurring model of IT delivery

- Work with the local community to improve the population health of Dublin 8 and to implement one SMART D8 initiative in 2021
- Deliver the EPR migration to TMS in Q2, 2021
- Hospital Patient Administration System (PAS) replacement. Following the review and recommendation to the Hospital Board undertaken in 2020, the goal is to commence a project to replace the hospital's PAS in 2021, with all the necessary financial approvals and resources in place
- Deliver the National Cancer Information System (NCIS) Project for the hospital with the HOPE Directorate
- Upgrade of ICCA, our ICU system with expansion to a proposed 24-bedded ICU Unit.



3.6 Facilities Management

The Facilities Management Directorate (FM) provides a full range of support services in an integrated manner that enhances the patient experience and supports the hospital's clinical staff in treating our patients. The FM Directorate comprises of the following disciplines; Patient Hygiene Services, hospital concourse, Chaplaincy Department, Catering Department, Portering Services, Telecommunications Department, FM Administration Department, Security Department and Car Parking, Logistics, Fire Safety Services, Medical Records Management, Technical Services Department (TSD)/ FM Engineering, Support Services Contracts, Sustainability and Mobility Department, Health & Safety Department.

Performance Highlights

Mobility and Sustainability

- The design was progressed for a healing garden in the Camino Courtyard with input from the Working Group and fundraising efforts are ongoing. It will be designed in a manner that will enhance the healing environment, helping to relieve the anxiety and stress often experienced by those with a serious illness
- The number of staff availing of the Bike to Work Scheme increased by 55% from the previous year

- The network review element of Bus Connects was confirmed. Three new routes will serve the hospital directly.

Portering Services

Due to the COVID-19 pandemic, upskilling on infection prevention and control (IPC) procedures, PPE use and health & safety training was organised for all staff in the department. Staff were involved in COVID-19 services including patients and COVID-19 swabs.

Logistics

	2020
Total receipt value goods & services	€169,847,641.38
Stock reservations processed	14,975
Stock receipt value	€23,491,901.75
Consignment issue value	€4,426,609.92
Stock vendors	147
Stock purchase orders placed	5,956
Managed stock lines	4,624

Catering Department

- Refurbishment of the Food Distribution Unit (FDU)
- Refurbishment of ward pantries (Hospital 6)
- Introduction of 2goCup for the staff restaurant which eliminated single-use disposable cups
- The environmental health officer (EHO) carried out announced audits and we received no non-conformances
- In October, the department was audited by the independent external auditor, the Food Safety Professionals Association (FSPA) to ensure compliance in food safety and hygiene practices against Irish standards. We received a Distinction by FSPA.
- The "Click and Collect" online service was launched for the convenience of staff
- International dysphasic diet standardisation (IDDSI) was introduced. The Catering Department had a pivotal role in adopting and implementing IDDSI throughout the hospital
- A specific patient menu was designed for Denis Burkitt Ward
- Co-chair of the Communication and Patient Signage Committee which was formed to ensure patient safety is met through improved communication between ward catering staff and nursing staff on wards, and correct signage being placed over the patients' bed/door
- Introduced 'Red Tray' for healthcare attendants to easily recognise patients who are on a textured modified diet when providing them with help and support during mealtimes.
- We received the 'Bronze Healthy Heart' award from the Irish Heart Foundation.

Objectives for 2021

- Moulded diets - We plan to introduce moulded diets to make textured modified diets more visually appealing, which will enhance patients' mealtime experience. This also assists patients with dementia, where recognition can be a vital aspect of food acceptance.
- Hollybrook Lodge - We aim in conjunction with the Clinical Nutrition and Speech and Language Therapy Departments, to have specific menus for residents. This will aid the residents in making an informed meal choice.
- Picture menu - We plan on developing a pictorial menu, designed with images of food and beverages,

which will help residents and patients with cognitive impairments and dementia, as it helps boost recognition. The aim of this is to encourage them to eat and drink properly.

- Technology - We plan to introduce technology as a tool to order patient meals, giving real-time information, reducing risks and allowing for full traceability. This will lead to a more efficient system and have financial benefits for the hospital
- Refurbishment of the Orchard House Restaurant
- Refurbishment of ward pantries to include air con, and new floors.
- The Catering Department will relocate to Fonthill in Dublin 22 as part of the decant from Brickfield House in Crumlin, Dublin 12. We will have a modern, up to date stainless steel kitchen.

Security Department

In 2020, the Security Department commenced the upgrade of its ICT systems and infrastructure. In addition to this, and in response to COVID-19, the Security Department was tasked with introducing and managing a Customer Services Division which took on the role of managing controlled access to all hospital buildings, creating and providing a bespoke Patient Property Service and assisting other departments and directorates with outpatient management, in terms of queue management.

FM Engineering

2020 was a productive year, despite any COVID-19 related challenges.

- The Energy Performance Contract (EPC) Project agreement was finalised and agreed with Veolia formally appointed as our EPC partner
- The new chillers were lifted and installed in October.

2021 Objectives

Work will continue into 2021 with the installation of:

- A new dedicated gas supply line to multiple parts of the hospital
- New LED lighting
- New larger Combined Heat & Power (CHP)
- Dedicated low-temperature heat and water (LTHW) boilers
- Other elements of the EPC.

Environmental Services Department

In 2020, the following waste statistics were recorded:

Risk waste tonnage closed out at:

	2019	2020	% Difference
Normal	341.42	394.68	16%
Special	34.19	30.12	-12%
			4%

Non-risk waste tonnage closed out at 1,537.70 tonnes in 2020 compared to 1,657.85 tonnes in 2019. This represents a 7.81% decrease.

Note: this is largely due to COVID-19 ward/area waste (all waste types) being treated as risk waste.

Due to COVID-19, there were no Dangerous Goods Safety Advisor Audits carried out.

Fire Services

In 2020, the following waste statistics were recorded:

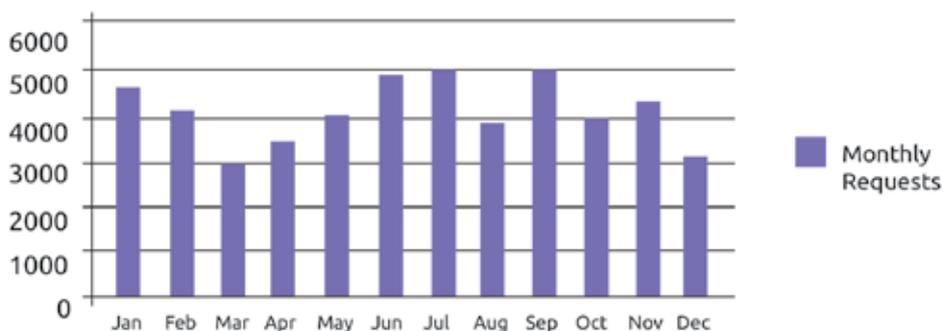
- The key performance indicator (KPI) for this department is the attendance of 3,746 staff at fire safety training in 2020.
- Additional fire safety training is provided to all contract staff to ensure they are competent to deal with a fire emergency
- Every fire exit and fire alarm panel are inspected each week to ensure they operate correctly
- The key objectives are to ensure that every department and building test their emergency preparedness by carrying out fire evacuation drills.

Medical Records Management

The Medical Records Centre houses almost 500,000 patient charts, over 2,000,000 laboratory slides/blocks and 10,000 microfilm tapes. In addition to medical records, the centre archives records for several departments across the hospital.

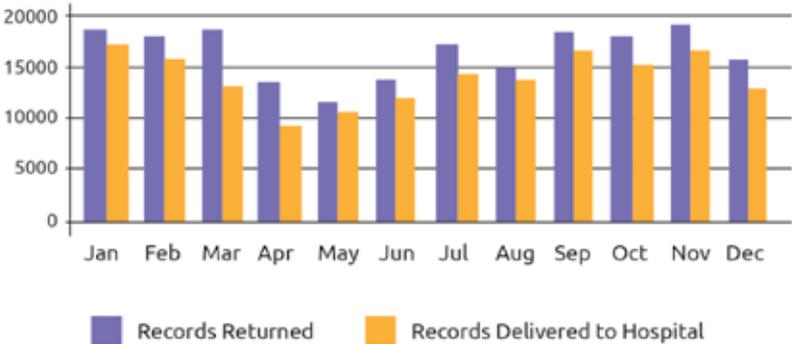
2020 saw a reduction in general scheduled hospital activity due to the COVID-19 pandemic. This had an impact on the requirement for medical record delivery to clinical services. For the first year since the Medical Record Centre was set up, we saw a decline in the number of records being delivered to the hospital (-9%). During this time, staff from the Medical Record Centre assisted in other areas of the hospital as required. This situation also gave us time to review our processes and improve where possible.

Online Requests 2020



In 2020, over 50,000 online requests for charts were received from services across the hospital. This represents a 2% increase on 2019.

2020 Monthly Activity



The department underwent an online audit for ISO 9001: 2015 Certification for the Comprehensive Management of Medical Records, which was awarded again.

We look forward to continuing to provide an excellent record management service in 2021.



4.1 Haematology, Oncology Palliative Care (HOPE)

The HOPE Directorate encompasses the specialties of Haematology, Medical Oncology, Cancer Genetics, Palliative Care, Psychological Medicine and Radiation Oncology. The Haematology Department incorporates the Haemoglobinopathy Service plus national specialities as follows:

- National Centre for Adult Bone Marrow Transplantation
- The National Coagulation Centre.

The directorate provides integrated care with St Luke’s Radiation Oncology Network (SLRON) and the Cancer Clinical Trials Programme and is supported by the Bone Marrow for Leukaemia Trust, the Irish Cancer Society and the Daffodil Centre. The directorate aims to provide the best care for patients, based on patient experience, safety, clinical excellence and innovation. The HOPE Directorate continues to meet growing demands on its services while capacity still represents an ongoing challenge.

Performance Highlights 2020

KPIs measured within the HOPE Directorate:

Pillar	KPI
Patient safety	<ul style="list-style-type: none"> • Medication safety events • Adverse events
Access	<ul style="list-style-type: none"> • OPD wait times • Time to triage by speciality/consultant • Time to treatment
Patient flow	<ul style="list-style-type: none"> • DNA rate (did not attend) • Outpatient and day case activity • Discharges • Length of stay

Other HOPE Directorate KPIs:

Medical Oncology

Monthly reporting to the National Cancer Control Programme (NCCP), detailing:

- The total number of patients who received a new parenteral systemic therapy in the Haematology Oncology Day Care Ward (HODC)
- The number of patients who received a new parenteral systemic therapy in the day ward within 15 working days of the date of the finalised treatment plan.
- In 2020, 776 oncology patients received a new parenteral systemic therapy in the HODC. 761 of these patients received treatment within the 15-day time to treat KPI. Of the 15 patients that did not receive treatment within the 15 working days’ time to treat KPI, one breached for personal reasons, 13 for medical reasons and one breached for capacity reasons.

Cancer Genetics

Quarterly reporting to the NCCP, detailing:

- Wait times for predictive and diagnostic testing
- Number and type of laboratory tests completed.

Palliative Care

Monthly reporting to the HSE detailing:

- Inpatient and outpatient activity
- Outcomes
- Wait times for inpatient and outpatient consults

Radiation Oncology

Monthly report:

- Radiotherapy admissions
- Radiotherapy discharges - a combination of previous months’ admissions and transfers to a radiotherapy consultant
- Bed occupancy.

National Adult Haematopoietic Stem Cell Transplant Unit:

- Detailed data is submitted on each transplant patient to the European Society of Blood and Bone Marrow Transplantation (EBMT).

National Coagulation centre (NCC)

- Clotting factor concentrates (CFC) administration and associated incidents.

Multidisciplinary Cancer Team Conferences (MDT):

- There are eight cancer multidisciplinary team conferences held weekly to establish consensus

diagnosis and treatment plans for all cancer patients

- In 2020, 10,286 cases were discussed, this was marginally down from 10,622 in 2019 due to the COVID-19 pandemic.

- In addition to the above, 725 patients with blood cancers and haematological malignancies were discussed at the Haempath MDS in 2020
- Number of cases discussed at MDT meetings 2010-2020 is shown below:

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Upper and Lower GI	1,059	1,167	1,109	1,271	1,203	1,017	1,228	1,248	1,361	1,362	1,333
Urology	623	781	942	1,320	1,022	958	1,029	1,089	1,088	1,139	1,065
Gynae	1,136	1,158	1,256	1,275	1,343	1,238	1,066	1,112	1,187	1,060	1,128
Breast	1,947	2,122	1,935	2,420	2,256	2,143	2,521	2,615	2,463	2,848	2,511
Lung	1,357	1,587	1,504	1,599	1,548	1,573	1,585	1,609	1,740	1,567	1,540
Head and Neck	638	599	689	871	934	985	1,085	1,144	1,327	1,394	1,538
Lymphoma	388	387	429	438	453	444	436	459	467	559	485
Skin	1,491	1,599	369	190	243	411	651	617	566	693	686
Haempath Meeting	N/A	690	654	776	725						

Staffing

- Emma Rowan was appointed as Clinical Nurse Manager (CNM III) to HODc
- Andrea Ferguson was appointed as CNM III to HOPE Directorate incorporating Cancer Clinical Trials
- Bernadette McGee was appointed as CNM I in HODc
- Niamh Larkin was appointed as Advanced Nurse Practitioner (ANP) in Haemophilia
- Ann O' Sullivan retired from the NCC after many years of service to SJH
- Claire Kelly was appointed as Clinical Nurse Specialist (CNS) in Palliative Care
- Katie O'Neill was appointed as CNS in Oncology
- Maria Gillespie was appointed as Hope Quality Manager
- Elizabeth Higgins was appointed as Chimeric Antigen Receptor (CAR) T-cell Co-Ordinator
- Grace Faulkner was appointed as CNS in Haematology
- Maria Boyle was appointed as CNS in Acute Haematology Oncology
- Deirdre Gorman was appointed as CNS in Haemophilia
- Brigid Brennan was appointed as Directorate Services Manager in May 2020

Performance Highlights 2020

Palliative Care

New Service: Acute Oncology Haematology Service

In July 2020, the new Acute Haematology Oncology CNS Service commenced in Haematology Oncology Day Care. The purpose of the role is to implement a direct route to specialised assessment for oncology haematology patients who are experiencing disease or treatment-related complications. The CNS provides specialised assessment and care via tele-consultations and in-person attendances to the unit, contributing to Emergency Department avoidance during the COVID-19 pandemic.

There were a total of 132 attendances by unwell patients to the service from July-December, with an average of 22 patients per month. Admission to hospital was streamlined for 45% (n= 59) of patients who attended and 55% (n= 73) of patients who attended avoided a hospital admission. It is anticipated that the service will continue to grow as engagement with the service improves.

Posters

- Maria Boyle, CNS, Acute Haematology Oncology, Norma O' Riordan, ADON, HOPE Directorate: Acute Haematology Oncology Care in a Cancer Institute: A Service Evaluation
- Peig Carroll, Quality Manager HOPE, Noreen Waldron, Cancer Clinical Trials CNM II: Patient Feedback from Patients attending the Haematology Oncology Day Centre (HODC).
- Deirdre Byrne, CSN, Denis Burkitt Ward, Fidelma Dowdall, CNM II, Denis Burkitt Ward: Implementing a programme of self-care to haematology patients during the COVID-19 pandemic
- Norma O' Riordan, Maria Boyle, Emma Rowan: Adaptations in Practice in a Single Irish Haematology Oncology Ambulatory Care Centre during the first 4 months of the COVID-19 Pandemic in Ireland

Nursing Key Priorities for 2021

- Continued collaboration with TCD School of Nursing and Midwifery and SJH, who are building their capacity within nursing to make a more substantial contribution to leading the cancer nursing research agenda in Ireland
- Continued delivery of the Fundamentals in Oncology Education Course
- Planning has also commenced from a nursing perspective for the roll out of a Chimeric Antigen Receptor (CAR) T-cell Therapy Programme in the hospital. This is another exciting development in the treatment of patients with haematological malignancies
- The focus of nursing care is and will continue to be on quality, research, education and clinical competence
- Continued delivery and increased nurse-led clinics

HODC Key Achievements 2020

- There were 16,235 day case attendances in HODC in 2020
- Quality improvement initiatives continue to be a priority for the HODC
- Expansion of the GP Phlebotomy Support for HODC using Swift-Q Technology. The plan is to continue expanding this service into 2021
- In response to the COVID-19 pandemic:
 - The treatment area of HODC was expanded
 - A COVID-19 Screening Pod is now in-situ outside HODC as an infection control measure
 - Two new isolation rooms were commissioned

- Two new COVID-19 pathway rooms are available
- Three additional consultation rooms
- Despite the challenges faced by staff due to the COVID-19 pandemic, full service provision resumed in July 2020, following a 25% reduction in day cases from March to June
- Telehealth clinics were introduced to reduce footfall to the department, due to COVID-19
- National Cancer Information System (NCIS) Project commenced and appointment of a project team took place in Q3 of 2020.

HODC Key Priorities for 2021

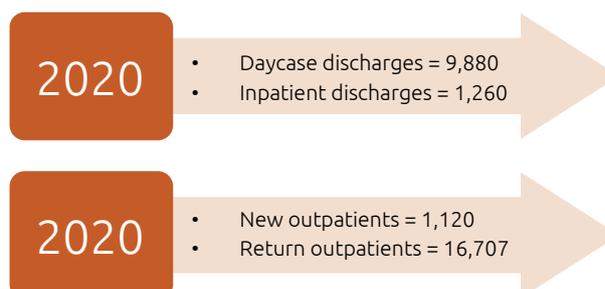
- Continue to expand capacity in HODC by increasing the number of treatment couches and consultation rooms, as well as increase the staffing at medical and nursing levels to meet growing patient demand and to improve patient experience
- Increase telehealth clinics with the use of Blue-eye technology for video consults
- Go-live of NCIS
- Transition of nursing and medical documentation to EPR
- Introduction of a new digital dictation system to improve the capture and sharing of clinical patient information
- Introduce a more efficient appointment scheduling system to improve patient flow and efficiencies.

Trinity St James's Cancer Institute (TSJCI)

The HOPE Directorate is committed to working with the TSJCI Programme Office on active and continuous improvement to maintain Organisation of European Cancer Institutes (OECI) accreditation and achieve Comprehensive Cancer Centre (CCC) status.

The OECI Accreditation and Designation Certificate was officially presented to the TSJCI on Thursday, 12 November, 2020, making the institute the first in Ireland to be recognised as an OECI Cancer Centre.

Medical Oncology Service



	2014	2015	2016	2017	2018	2019*	2020**
Oncology outpatients	11,994	10,985	11,756	12,361	12,713	16,138	17,827
Oncology day cases	6,638	8,986	9,823	10,609	10,246	11,095	9,880

* Patients attending for consultation on the same day as treatment are now registered separately, as of July 2019. This change in practice accounts for some of the increase in outpatient department (OPD) figures for 2019. Day case numbers are not affected by this change.

** Day case numbers reduced by approx. 25% in March to June 2020 due to the COVID-19 pandemic. This accounts for drop in overall annual numbers when compared with 2019.

Medical Oncology Key Achievements in 2020

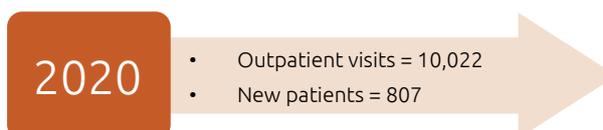
- Active and continuous involvement in improving standards leading to achieving OECI Cancer Centre accreditation
- Significant contribution by the Medical Oncology team into research activity and healthcare policy development at local, national and international levels
- Actively preparing for implementation for the NCIS. The clinical lead for project is Dr Dearbhaile O'Donnell, Consultant Medical Oncologist.

Medical Oncology Key Priorities for 2021

- Engage with key stakeholders to increase the number of cancer clinical trials available to patients and patients enrolled onto a cancer clinical trial in 2021
- Continue to expand collaborative participation in translational clinical research
- Expand the use of community intervention teams (CITs) and services
- Expansion and implementation of locally developed and NCCP KPIs related to improved safety and patient experience
- Ongoing quality assurance to maintain OECI accreditation and designation status.

Haematology Service

- As the National Adult Haematopoietic Stem Cell Transplant Unit, the service carried out 164 transplants in total; 82 autologous and 82 allogeneic stem cell transplants in 2020
- Haematology outpatient and day case activity was 16,377 combined attendances in 2020. A reduction in activity from 2019 was due to the COVID-19 pandemic. There was a decrease in day case attendances by approx. 25% from March to June, 2020.



Outpatient Activity Haematology 2015-2020						
	2015	2016	2017	2018	2019	2020
New	744	1,046	1,104	702	794	807
Return	9,439	9,168	9,387	9,869	10,231	9,215
Total	10,183	10,214	10,491	10,571	11,025	10,022

Key Achievements in 2020

- Continued preparation for delivery of Chimeric Antigen Receptor (CAR) T-cell Co-Ordinator.
- 16 patients were referred to hospitals in the UK for CAR-T in 2020. This exciting new treatment is expected to be available to patients in SJH in the near future. Education and training related to CAR-T has been provided to staff throughout the year in preparation for its introduction. Associated standard operational procedures have been developed.
- Michelle Pollard was appointed as Grade V CAR-T Administration Co-ordinator
- Dr Larry Bacon was appointed as CAR-T Clinical Lead
- Capital Funding secured for the expansion of Denis Burkitt Ward. Seven additional beds were funded.
- The Joint Accreditation Committee of the International Society for Cellular Therapy (ISCT) and European Group for Blood and Marrow Transplantation (EBMT), (JACIE), awarded accreditation on 14 February, 2020. As with any quality assurance programme, ongoing improvements are required to maintain this status.



Key Priorities for 2021 and onwards

- Continue to meet the standards set by JACIE accreditation of the Autologous Transplant Service
- Increase medical and specialist nursing manpower for the Allogeneic Transplant Service as highlighted at JACIE inspection
- Formalise the Myeloid MDT Service to include all new myeloid diagnoses and marrow failure syndromes to assist in the streamlining of treatment planning and to improve the triage and prioritisation of national transplant referrals
- Development of a service directed towards adolescents and young adults (AYAs) with haematological malignancies including marrow failure syndromes
- Provide the first CAR-T cell therapy in Ireland
- To review all SCT policies and procedures in preparation for the JACIE interim audit in 2022
- To increase the number of clinical audits undertaken
- Expansion of Denis Burkitt Ward. Seven additional beds to be commissioned in 2021.

Red Cell/ Haemoglobinopathy Service

- Demand for this service continues to rise with, with over a 450% increase in activity over the past five years
- The team comprises of 1 WTE consultant, 2 WTE CNSs, 1 WTE staff nurse, 0.5 WTE senior physiotherapist, 0.5 WTE social worker and 0.5 WTE senior psychologist
- A national transition programme has been established for patients transitioning from the paediatric services at Children's Health Ireland, Crumlin to the adult services in SJH
- The service has established close links with obstetric colleagues in the Coombe Hospital, managing high-risk pregnancies on a national level
- The SJH Red Cell Service is a member of the Eurobloodnet, a collaborative network of institutions committed to improving healthcare services for patients with rare red cell disorders
- Patients have the opportunity to enrol in international clinical trials which are run in conjunction with colleagues in the Clinical Research Facility
- In 2020, designated ambulatory care capacity for the Haemoglobinopathy Service was accomplished. Expansion of the Haemophilia and Hepatology Assessment Unit allowed for two designated couches for the Haemoglobinopathy Service.

Objectives for 2021

- Further expansion of the Ambulatory Haemoglobinopathy Service
- Development of the Transition Service.

National Coagulation Clinic (NCC)

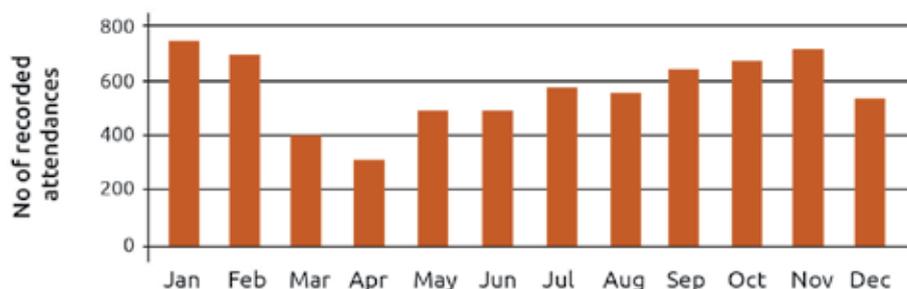
Key Achievements 2020

- Expansion of the Haemophilia and Hepatology Assessment Unit and designated haemoglobinopathy treatment space, returned capacity to the NCC, allowing the introduction of a Rapid Access Clinic which will be provided by the ANP
- In response to the COVID-19 pandemic, the NCC switched its outpatient clinics to telehealth methods
- The Lighthouse Project enhancements continued
- Patient Portal Committee was set up and preparation began
- Rollout of a new subcutaneous treatment, Hemlibra, the first of its kind for the service
- Gene therapy clinical trial commenced with positive results reported for patients
- Laura Parkinson won the International Association for Disability and Oral Health Research competition
- Webinars commenced with twin-sites in Jordan, United Arab Emirates – MDT involvement
- Four centre meetings moved to a virtual platform
- 0.5 Clinical Trials CNS was appointed - Maria Gannon
- New Consultant, Dr Michelle Lavin joined the team
- New ANP appointed - Niamh Larkin
- Permanent 0.5 Physiotherapist, Mark Mc Gowan, was appointed
- Team presentations at World Federation of Haemophilia 2020, ISTH 2020, EAHAD 2021.

Key Priorities for 2021

- Collaboration with the SACC Directorate to reduce surgical waiting list for haemophilia patients
- Develop models of care for telehealth, shared care and treatment guidelines
- Focus on women and bleeding and develop links with gynaecology services in SJH
- Implementation of patient portal
- Provide licensed gene therapy.

2020 Monthly Activity



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2020	73	689	400	310	494	496	585	571	642	659	689	544	6,812
2019	641	529	663	730	712	597	524	728	665	856	731	477	7,853

Specialist Palliative Care

The Specialist Palliative Care Service looks after patients with life threatening illness. It provides advice on symptom control and end of life care. It co-ordinates specialist palliative care support for patients on discharge and works closely with Our Lady's Hospice and Care Services and other specialist services.

Introduction to Specialist Palliative Care Programme

The Introduction to Specialist Palliative Care Course is a four-day interdisciplinary course. The aims of the course are to provide attendees with a knowledge of:

- The concepts, aims and philosophy of palliative care
- The assessment and management of symptoms caused by disease progression and related treatments, using pharmacological and non-pharmacological methods
- The importance of effective communication with patients who are dying, and their families and loved ones
- The knowledge and skills in providing holistic care for patients in their last days of life
- The concepts of death, dying and the bereavement process
- 23 people attended the course in 2020. The formal feedback was excellent.

Bereavement Support Service

A bereavement support service is offered to the relatives of patients that have died under the care of the Specialist Palliative Care team, through the medical social worker attached to the team. This service includes information about the emotional impact of bereavement and extends to practical information on bereavement entitlements. As part of this follow-up support, a remembrance service is usually held bi-annually. This remembrance service is a non-faith based service which involves a talk on grief and loss, a candle lighting ceremony to remember the loved ones that have died and it is an opportunity for families to access information on bereavement support services.

- The feedback received following the 2019 services was all extremely positive with one family member reflecting "Keep doing this as it was a huge part of my grieving and it has helped my grieving process"
- Unfortunately, due to the national guidelines and restrictions in place during the COVID-19 pandemic, we were unable to hold any remembrance services in 2020. We hope to resume this service as soon as possible as we have learned from previous services that families find it extremely therapeutic to return to the hospital, to have the opportunity to meet with the staff who cared for their loved one and also to have the opportunity to meet with other grieving families.

Key Achievements 2020

- The RANP clinics provided by Rory Wilkinson in the HODC continue to grow
- Usually, up to 70% of the work of the Specialist Palliative Care team comprises patients with malignant disease. However, during the first wave of the COVID-19 pandemic, up to 50% of referrals comprised non-malignant disease. The team has been involved in symptom control and end of life care for patients with COVID-19.
- Dr Aoibheann Conneally and Dr Barbara Sheehy Skeffington joined the Palliative Care team in a temporary capacity to provide maternity leave cover and to support the increased workload associated with the pandemic
- Dr Karie Dennehy joined the Palliative Care Service as a full-time locum consultant.

Outpatient activity

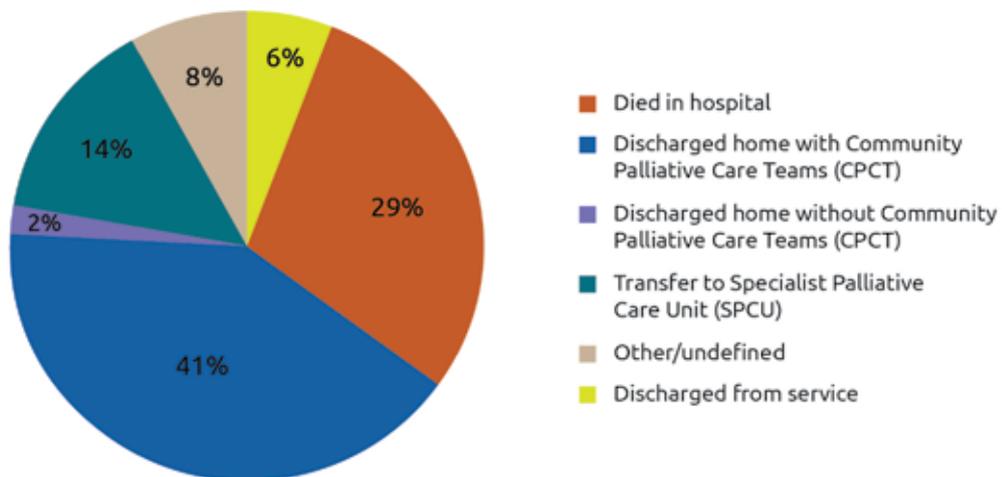
	2015	2016	2017	2018	2019	2020
New	55	44	55	58	103	93
Return	199	170	243	315	415	367
Total	254	214	298	373	518	460

Team visits

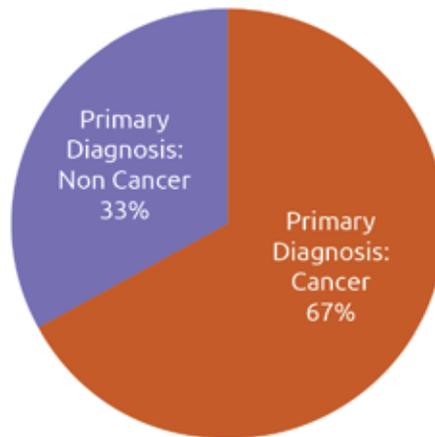
	2015	2016	2017	2018	2019	2020
Single	4,882	5,066	4,278	4,477	4,429	4,429
Joint	676	746	617	728	647	734
Total	5,558	5,812	4,895	5,205	5,076	5,163

n=1242

Patient Outcomes 2020



Diagnosis (of new referrals to the service) 2020



Cancer Genetics:

As expected, service activity continued to rise. Q1 2020 saw the highest quarterly activity since the service was established.

- Due to the COVID-19 outbreak, as per government recommendations, OPD routine appointments were ceased from April to mid-June, and resumed gradually in line with hospital guidelines. During this time, the service continued to provide urgent and results appointments via telephone consultation. Three CNS genetic nurses were redeployed to support Occupational Health contact tracing
- The telemedicine initiative was accelerated to overcome COVID-19 restrictions, minimise the risk of contacts, help reduce hospital footfall and improve patient reach
- A trial with a new vendor for saliva panel testing commenced, which significantly reduced the turn-around time for results and enabled the service to achieve a remote service model by delivering test kits directly to patient's homes. Establishing this remote service model with an appropriate supplier was prioritised in order to future-proof an adequate COVID-19 contingency plan should OPD capacity be restricted again in 2021
- The COVID-19 crisis further exposed the rapidly growing waiting list, which is a momentous challenge for the service in 2021, given current resourcing constraints
- Working in collaboration with IMS, the Progeny software was installed and interfaced with the EPR and PAS systems. As a consequence of

COVID-19 related delays, the aim is to go-live with the system in Q2 2021, once user testing and training is complete.

- In response to COVID-19, the service and staff adapted to new ways of working and continued to implement local quality improvements which reduced paper-based practice and optimised resources, efficiencies and patient safety e.g. EPR pools for all appointment requests
- Dr Karen Cadoo, Consultant Oncologist and Cancer Geneticist, joined in June 2020 to lead the Cancer Genetics Service with Prof. David Gallagher.
- Agnieszka Aziewicz, Genetic Counsellor joined the service in November, 2020
- Roisin Clarke was appointed as Cancer Genetics Research Nurse.

Key priorities for 2021

- The service faces a challenging year ahead in 2021 to reduce the waiting list, waiting times for a routine appointment and limit further COVID-related disruption to the service where possible. Additional resources are necessary to shorten the waiting list and improve quality patient care
- University student placements were cancelled in 2020. The service will resume hosting student placements in 2021
- Promote awareness and uptake of BlueEye video for patient consultations
- Develop internal and external research collaborations
- Establish and develop an MRI screening pathway for Li-Fraumeni Syndrome patients.

Radiation Oncology Service

Impact of COVID-19

The RANP clinics provided by Rory Wilkinson in The pandemic has, as for other disciplines, had a significant impact on service delivery access the St Luke's Radiation Oncology Network. This has affected our Stereotactic Ablative Radiotherapy (SABR) Service the most. However, this treatment is now also available at the Rathgar site. In 2020 we treated our first patient with extra-pulmonary disease (adrenal) and the service for patients with disease in the kidney, bone and nodes will progress further in the coming twelve months.

Undergraduate Teaching

Dr Fran Duane was appointed as TCD academic teaching lead for oncology on the SJH campus. Dr Charles Gillham runs and coordinates the 3rd year TCD medical undergraduate attachments.

Breast Cancer

Breast cancer radiotherapy accounts for 30% of treatment delivered in radiation oncology. Dr Duane has led the routine implementation of nodal contouring in breast cancer and the delivery of internal mammary chain radiotherapy for high-risk cases. The NSABP-B51 Trial, investigating treatment omission for patients who have a complete nodal response to neo-adjuvant chemotherapy, closed in late 2020. SLRON was the joint 11th highest recruiting site out of 423 sites. When COVID-19 struck, Dr Duane developed a national guideline for breast cancer radiotherapy and set

up a prospective observational study to demonstrate the feasibility of implementing a one-week schedule for suitable cases. This represents a landmark change in practice which was implemented rapidly across multiple centers by bringing together specialists, exploring consensus at each stage of development and providing protocols including comprehensive patient follow-up schedule to ensure safe practice. This has had a positive impact on the experience of hundreds of patients attending for breast cancer radiotherapy during the pandemic, particularly for those over 70 years and cocooning under national guidance. As well as ensuring access to treatment, the risks of infection were greatly reduced for both patients and staff.

Radiation Oncology Staff

- Dr Sinead Brennan has been appointed as Director of Research at St Luke's Institute of Cancer Research. She brings with her a wealth of experience in running national and international clinical trials within the network and with other Irish hospitals
- Ms Anne O'Hara, the radiotherapy liaison nurse, who has been instrumental in the smooth communication between SJH and St Luke's Hospital for almost 20 years will retire in 2021. She will be a huge loss, but we look forward to help developing and strengthening this vital role, once we find a suitable replacement.

Data for treatment delivered 2012-2020 is captured in the table below and reflects the increasing complex nature of the specialty.

Year	Number of New Treatment Starts	Number of Fractions Delivered	% of treatments that are VMAT	SABR Treatments (no of patients)	SABR Treatments (no of fractions)
2012	823	19,303	10	N/A	N/A
2013	1,160	23,127	27	N/A	N/A
2014	1,450	26,322	30	35	156
2015	1,407	24,887	50.8	56	259
2016	1,395	26,036	73.3	75	360
2017	1,377	23,463	74.3	139	754
2018	1,445	21,676	76.6	128	669
2019	1,427	21,910	72.9	171	880
2020	1,337	19,098	79.7	106	546

Psychological Medicine Service

Key Activity in 2020

The Psychological Medicine Service provides care for all cancers – haematology, oncology, medical and surgical cancer patients.

Key Achievements in 2020

The Psychological Medicine Service continued to deliver psychiatric and psychological care to cancer patients in SJH. The COVID-19 pandemic led to a 25% reduction in attendance at the HOPE Directorate during March, April and May of 2020. This meant a reduction in referrals during this period. This allowed the service to pivot and develop resources for the wellbeing and psychological support of frontline staff.

As a development of the need to provide care in a different way, the service moved to delivery using technology to provide care for patients remotely. With the return of patients to services after the first wave, patients were seen both in person (face to face) and remotely, depending on preference and clinical need. This flexibility has been maintained. Group activities have not been possible in light of the pandemic but patient and staff education have continued. The offices have been upgraded to comply with infection control requirements.

Key Priorities for 2021

- The development of Advanced Nurse Practitioner (ANP) posts is a key priority for 2021 using the existing expertise of the Clinical Nurse Specialists (CNSs)

- Replacement of key personnel due to retirement
- The development of methods to capture service activity. One of the strengths of the service 'on the ground' has been its flexibility in responding to patient need, for example seeing patients in the HODC while they attend their haematology-oncology appointment, rather than requiring them to attend a separate Psycho-oncology outpatient appointment. This approach, while promoting a flexible clinical approach, has meant that much of the service activity is not measured. With the activation of the EPR, there is now the possibility of capturing activity in a more practical manner and this will be a focus over the next year.

Clinical Trials

- 39 patients were enrolled onto 13 different clinical trials in 2020
- Twelve new clinical trials were opened in 2020 in the areas of lung, breast, head and neck, haematology, and gynaecology. One was a Phase II trial with the remainder being Phase III. All were pharmaceutical company sponsored and funded
- We received funding from philanthropic sources for a new position; Grade VI Clinical Trial Start-Up Specialist. Claire O' Donohoe started in this post in April 2020.

The directorate received funding for a new CNM3 post to manage the Clinical Trials Nursing team, in addition to the HOPE CNS team. Andrea Ferguson started in the post in December 2020.



4.2 Medicine for the Elderly (MedEl)

Mercers Institute for Successful Ageing (MISA) offers clinical services, spanning a thriving Ambulatory Care Service which operates a one-site-one-stop model for up to 30,000 attendees per year, in addition to avant-garde rehabilitation facilities and cutting edge inpatient care, delivered in single-room occupancy. Ambulatory care services include; Falls & Syncope Unit (FASU), Memory Clinic, Bone Health Unit, Stroke Unit, and a busy General Outpatient Clinic. Home FIRsT is a specialist older person's team based in the Emergency Department (ED). The ED FASU Service covers all ages of those presenting. Mercers Institute for Research on Ageing (MIRA) is the research pillar of MISA and is Ireland's largest clinical research facility for older people, dedicated to developing new models of clinical care, technological innovations and highest quality research, education and training in healthcare for older adults.

Clinical Pillar – COVID-19

2020 was a particularly difficult year for the directorate. The COVID-19 pandemic has had a significant impact on our older patients and as such we had to seriously reconfigure our services to address as much as possible the needs of our MISA community. Much of our ambulatory service was delivered virtually.

This year has brought unprecedented challenges with the pandemic and the loss of many of our older patients, especially in our residential unit, Hollybrook Lodge, but also our hospital wards. They will not be forgotten.

It has been a privilege to work with such dedicated colleagues and staff who continued to work tirelessly and selflessly for our patients. Many of the staff became sick or had to isolate, but as a group they demonstrated amazing professionalism and commitment to patients, which was inspiring. Also, many staff were redeployed into unfamiliar roles and departments across the hospital to assist with the hospital-wide response to COVID-19.

COVID-19 Vaccination

On 29 December, 2020, a MISA inpatient was the first patient in Ireland to receive the COVID-19 vaccination.

Training & Education Pillar

- **Mercers Annual Lecture:** The MISA 2020 Annual Lecture (first e-lecture) was delivered by Professor Kenneth Rockwood, University of Dalhousie, Halifax, Canada on 25 May. The lecture was entitled "Frailty in the time of COVID-19".

- The Foundation Course in Gerontology was held in March 2020. It was a very successful training event, with a variety of topics covered.

Research Pillar (MIRA)

Local Asset Mapping Project (LAMP)

In the last 12 months, LAMP progressed during and despite the COVID-19 pandemic in the areas of social prescribing, community connection, education and research.

The first hospital-based social prescribing project in Ireland was founded, funded by Sláintecare and based in MISA. Unique amongst social prescribing projects in Ireland, there is a dedicated data manager. The first hospital-based link working in Ireland began work in 2020.

Mercer's Glanbia Bone Health Fellow 2020

The collaboration between the Mercer's Institute and Glanbia builds on a previous relationship in the 1990's with Premier Dairies, when a formula for vitamin D fortified milk was developed and tested at St James's Hospital. The Mercer's Glanbia Fellow (Helena Scully) is undertaking her PhD examining the prevalence and determinants of vitamin D status in a large cohort of Irish people. A recent study arising from her research was published in the journal *Nutrients* and was the largest in Europe to geomap vitamin D status, involving nearly 40,000 adults across a broad age range. It found a 'U' shaped relationship with the prevalence of vitamin D deficiency, which was lowest in middle age but highest in those between 18-39 years, rising again in those aged over 70yrs. The research was recently cited by the Oireachtas Joint Committee on Health

in its recommendations on vitamin D intake during the COVID-19 pandemic. It was also cited by the Food Safety Authority of Ireland (FSAI) in its report on vitamin D intakes in older Irish adults.

A further research paper has just been submitted to the British Journal of Nutrition and is under peer review. It examined vitamin D retesting at the St James's Hospital Laboratory and identified that about one in four of all vitamin D requests were for retests. Vitamin D retesting was predicted by female gender, age and patient location, however, 10% of retests were done inappropriately early.

The bone health fellow will also be examining in more detail the determinants of vitamin D status in a sample of about 1,000 people, through use of detailed questionnaires. This will be one of the most in depth studies to look at factors influencing vitamin D status in Ireland.

Creative Life Pillar

The Creative Life Centre in MISA promotes the role of creativity in health, underpinning the benefits of

creativity through art, sculpture, poetry, music and drama for physical and frail health.

In February, MISA launched a series of Irish art on loan from the collection of The Arts Council of Ireland. The invited guest lecture was delivered by Professor Norma Daykin. Her presentation was 'Understanding the impact of arts on health and wellbeing'.

In July 2020, a webinar was hosted by Creative Ireland in association with the HSE Health and Wellbeing and Healthy Ireland.

Events

Retirements:

- Dr Robert Coen retired in December 2020. Robert contributed greatly to the Memory Clinic as the Senior Clinical Psychologist
- Dr Brendan Mc Carthy retired in February 2020. Brendan contributed greatly to the Bone Health Unit
- Mary Casey retired in July 2020 as Clinical Nurse Manager of Patrick Kavanagh ward after many years of excellent work caring for the elderly.



Dr Robert Coen Retirement - Dr Robert Coen (sitting down), Prof. Brian Lawlor (speaking), Prof. Davis Coakley (on screen)



'Celebrating International Older Persons Day 2020'

2021 Objectives

- Develop community integration initiatives
- Expansion of the Robert Mayne Day Hospital Services to meet patient needs from ED and the community
- Memory Clinic expansion
- Local Asset Mapping Project (LAMP) continuation and expansion of this initiative.

4.3 Medical and Emergency (MED)

The Medical and Emergency Directorate (MED) comprises all internal medicine specialties. It is organised into four administrative pillars:

- Acute Floor
- Inpatient care
- Day procedures
- Ambulatory care.

Its mission is to provide the best care for all patients based on safety, clinical excellence and the patient experience. The agreed management process is a clinically-led cycle for continuous improvement. Its aims focus on optimal acute and ambulatory care for all patients in the following specialties; Emergency Medicine, Acute and Internal Medicine, Cardiology, Dermatology, Endocrinology, Endoscopy, Gastroenterology and Hepatology, Clinical Immunology, Genitourinary (GU) Medicine and Infectious Diseases, Ophthalmology, Nephrology, Neurology and Clinical Neurophysiology, Respiratory Medicine and the Respiratory Assessment Unit and Rheumatology.



Performance Highlights

The year 2020 was dominated by the COVID-19 pandemic. Tremendous flexibility, commitment and professionalism was demonstrated by the extended directorate team in very challenging circumstances.

Significant changes within the directorate to support COVID-19 patient management included; infrastructural changes in the Emergency Department (ED), the relocation and subsequent reconfiguration of the Coronary Care Unit (CCU) and reassigning H&H Ward and Private 1 Ward. There was also a significant ramping up of telehealth technology to support clinical teams to provide continuity of care to patients in their home environment.

Another detrimental effect of the COVID pandemic was the necessary reduction in scheduled procedural and outpatient activity. This occurred in the context of a system already suffering from a capacity/demand mismatch. We will have to factor in this loss of activity in future service plans that will need to be ambitious in terms of increasing physical footprint and staffing resources to meet the population needs.

Key achievements:

- Responding to the rapidly changing environments created by the COVID-19 pandemic
- Inclusion Health Service was regularised
- Cardiovascular Information System (CVIS) was implemented.

Key appointments:

- Dr David Kevans was appointed to the Associate Professor in Gastroenterology role, succeeding the late Professor Nasir Mahmood
- Dr Colin Doherty was appointed to the Ellen Bateson Chair in Epileptology
- Dr Donal Sexton was appointed as a consultant in Nephrology
- Dr Ian Pearson and Dr Mark Hensey were appointed as consultants in Cardiology
- Mr Stuart Garrett was appointed as MED Directorate Service Manager – Ambulatory Services.

2021 Objectives

2021 is difficult to predict due to the unpredictability of the COVID pandemic and the impact of the Vaccination Programme. What is clear, is that the Emergency Department and the Acute Medical teams will continue to operate in a high-demand environment. The procedural specialties will endeavour to adapt to continue to deliver safe and effective high quality of care.

Another challenge for 2021, is making progress towards the high-level goals of Sláintecare, removing barriers between systems of care for patients with chronic disease with welcome additions to the nursing and medical teams to support this objective.

2021 will see a continuing level of acute COVID-19 care services and the MED Directorate teams also want to respond to the long-term follow up requirements of those affected by COVID-19.



4.4 Surgery, Anaesthesia and Critical Care (SACC)

The Surgery, Anaesthesia and Critical Care Directorate, (SACC), provides a range of services and specialties at a local, regional and national level. SACC's mission is to provide safe, timely and quality personal care to all its patients.

Services provided are anaesthesia and pre-assessment, breast care, cardiothoracic surgery, critical care, upper and lower gastrointestinal surgery to include general surgery, gynaecology, oral and maxillofacial surgery, orthodontics, prosthodontics and cleft ambulatory care, orthopaedics, otolaryngology, plastics, reconstructive and burn surgery, acute and chronic pain management, vascular surgery and urology. SACC is also responsible for the Hospital Sterile Supplies Unit.

COVID-19

2020 was a particularly difficult year for the directorate. The COVID-19 pandemic meant that many of our services were curtailed across our ambulatory and inpatient pathways. This resulted in many surgical specialties operating off-site in private hospitals to enable urgent and time-sensitive surgeries to occur. Much of our ambulatory service was delivered virtually.

The response by all staff groups within SACC in managing the pandemic (clinical, nursing, and support roles), was tremendous, with many staff re-deploying into unfamiliar roles and departments across the hospital to assist the hospital with its hospital-wide COVID-19 response.

Critical care and three wards within the directorate managed high volumes of COVID-19 positive patients throughout all phases of the pandemic. This was highlighted in a televised documentary about the hospital and the COVID-19 pandemic.

The enabling of increased surge capacity in critical care was also a particular highlight which was enabled and supported by staff not just from the SACC Directorate, but by staff from all directorates across the hospital.

Performance Highlights

In 2020, the hospital received approval to increase the current critical care capacity by eight beds. By the end of 2020, six of those beds were opened, providing a welcomed increase in capacity.

There was also funding approval for six new advanced nurse practitioners (ANPs) in critical care. Three of these new posts were appointed in Q3 of 2020, with the remaining three to be appointed in Q2 of 2021. The directorate also received funding to staff unfunded, unopened theatres. This is planned for early 2021.

Retired and new staff

Professor Leo Stassen retired from his post as Professor in Maxillofacial surgery, and Mr Conor Barry, left St James's Hospital to join the Maxillo-facial team in Cork. We wish them both well in their new endeavours.

A general practice breast care physician joined the Breastcare team in 2020. This is a new role that will assist in the improved pathway for patients referred to the routine breast service.

Other

The directorate also engaged with the National Treatment Purchase Fund (NTPF) regarding many insourcing and outsourcing initiatives. This increased our headcount and enabled patients to receive treatments, despite restrictions on access and capacity being in place.

Key Objectives for 2021

The COVID-19 pandemic limited some of the service plans that the directorate had for 2020, however, as we look forward to 2021, the directorate is planning the following:

- Further increase in critical care capacity
- Implementation of robotic surgery
- Establishment of a centralised Head & Neck Cancer Service
- Opening of unfunded, unstaffed main operating theatres
- Wider coverage of pre-assessment and increase in day of surgery admission (DOSA) rates
- Continuing wider use of virtually delivered telemedicine.



4.5 Laboratory Medicine (LabMed)

The St James's Hospital Centre for Laboratory Medicine and Molecular Pathology (LabMed Directorate) is a fully accredited service.

It comprises the clinical laboratory disciplines of; Biochemistry (including Point of Care Testing), Cancer Molecular Diagnostics, Haematology (incorporating Coagulation and Cryobiology), Histopathology (incorporating Cytopathology), Immunology, The Irish Mycobacteria Reference Laboratory (IMRL), Microbiology (incorporating Virology, (Interim) Gonococcal Reference Laboratory (GCRL) and Infection Prevention and Control), The National MRSA Reference Laboratory (NMRSARL), Phlebotomy and Transfusion Medicine (incorporating Haemovigilance). The laboratory also engages in clinical research and is actively involved in clinical audit and improvement.

Performance Highlights of 2020

On 30 January 2020, the World Health Organisation (WHO) declared the first outbreak of novel coronavirus a 'public health emergency of international concern' and by March 2020, COVID-19 was declared a 'global pandemic' (Ref www.who.int). Every section within the LabMed Directorate was impacted; the rostering and wellbeing of our Laboratory, Phlebotomy and Clinical teams, the rapid implementation of new COVID-19 testing services for our patients and staff members, our key performance indicators and turnaround times as well as our ability to continue to deliver services to both internal SJH (>60% workload) and external customers, including GPs (35% of workload). The directorate's overall workload fell by 8% in comparison to 2019. This was particularly evident during the first wave of the pandemic from March to May 2020, whereas the workload in the second half of the year was 2% above 2019 levels.

All laboratory departments were successful in retaining their accreditation status to ISO 15189: 2012 (Medical Laboratories: Requirements for Quality and Competence) in February 2020 following the first surveillance visit of the new cycle by the Irish National Accreditation Board (INAB). The laboratory's Near-Patient Testing Service is also accredited to ISO22870:2016 POCT Requirements for Quality and Competence.

The Cryobiology Laboratory is licensed as a Tissue Establishment by the Health Protection Regulatory Authority (HPRA) and in February 2020, officially obtained accreditation from the Joint Accreditation Committee ISCT-Europe and EBMT (JACIE) as Eu-

rope's only official accreditation body in the field of haematopoietic stem cell transplantation (HSCT) and cellular therapy. In 2020, the Cryobiology Laboratory undertook authorisation from the Irish Aviation Authority (IAA) as a 'Known Consignor' for the secure shipment of cells to international transplant centres and pharmaceutical manufacturing sites. An IAA validation inspection took place and Known Consignor status was granted to the laboratory on behalf of the SJH organisation.

Laboratory personnel continue to engage in the development of the National Medical Laboratory Information System (MedLIS) Project and the National MedLIS Project Board. This is a long-term project with high levels of complexity and unique challenges impacting SJH (provisional go-live date for SJH is Q1 2021). The delivery of this project will create a national laboratory record for patients to drive improvements in patient care in Ireland.

Some specific developments in the SJH Laboratory Services in 2020 include:

The Microbiology Laboratory including Molecular Virology, responded incredibly to implement new SARS-CoV-2 molecular testing in 2020 on multiple platforms. In 2020, new screening analysers were introduced (WASPLab, Abbott Allinity i with AMS middleware and Hologic Panther and Panther Fusion instruments) to deliver high quality and high throughput patient testing. The Virology Molecular laboratory also relocated its PCR platforms within the LabMed building for improved workflow. STI testing was considerably down on 2019 due to closures of clinics both

in SJH and externally, while CRE screening continued to increase, despite the COVID pandemic.

The Cancer Molecular Diagnostics Laboratory continued to increase its workload and service delivery by offering large cancer panels (e.g. MPN and myeloid panels) for patient screening in public and private hospitals in 2020. Installation and validation of new equipment such as the Hamilton NGS Star and the NextSeq sequencer will support further development of the test repertoire (e.g. BRCA testing, MyD88 and EGFR) as well as drive efficiencies in patient testing in the future.

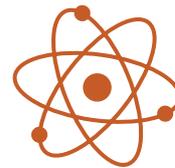
The Blood Transfusion Laboratory experienced decreased activity due to the relocation of surgical procedures to private hospitals during the first lockdown, balanced by increased activity associated with the Haematology Patient Service and provision of blood products.

The Coagulation Laboratory experienced a continued decrease in patient Warfarin testing in comparison to an increase in other coagulation tests, especially Fibrinogen and D-Dimers associated with monitoring of COVID positive patients.

The Phlebotomy Department provided phlebotomy services to the Haematology Oncology Day Centre (HODC) during 2020, resulting in clear improvements in the experience for patients, and a more streamlined flow of patients through the unit.

Objectives for 2021 include:

1. Implementation of the five-year Strategic Plan and initiate planning of strategic initiatives
2. Continued infrastructure developments to support service needs, including the area of Phlebotomy, the Mortuary and expansion of the laboratory building
3. Continued IT development driving improvements in communication, functionality and interfacing of instrumentation across the directorate. This includes improved connectivity between the Laboratory Information Management System (LIMS), Patient Administration System (PAS) and the Electronic Patient Record (EPR).
4. Continued expansion of RFID processes with other clinical areas (e.g. Endoscopy and Dermatology).
5. Progress implementation of the Equipment Management Programme in key areas such as Histopathology, PTTS System.



THE MICROBIOLOGY LABORATORY RESPONDED INCREDIBLY TO IMPLEMENT NEW SARS-COV-2 MOLECULAR TESTING IN 2020 ON MULTIPLE PLATFORMS.



4.6 Diagnostic Imaging (DiagIm)

The Diagnostic Imaging (DiagIm) Directorate provides a diagnostic imaging service to the patients and clinicians of St James's Hospital (SJH). Imaging services provided include; CT, MRI, ultrasound, breast imaging, nuclear medicine, PET/CT, interventional radiology and general X-ray.

A service is also provided to GPs as well as tertiary care to hospitals. A radiographic service is also provided to the Cardiac Cath. Lab, Endovascular Suite, Endoscopy Dept., DXA Dept. and theatres.

The provision of education and training is a key function of the directorate. A training programme for specialist radiology registrars is delivered in addition to the ongoing clinical training of undergraduate and postgraduate radiography students.

Performance Highlights

The demand for diagnostic imaging services, in particular CT, MRI, ultrasound, mammography and PET/CT, continued to increase in 2020. The directorate aims to provide timely patient access to all diagnostic imaging services provided. There was a continued focus on improving our waiting times for all procedures in 2020. However, the COVID-19 pandemic unfortunately resulted in necessary outpatient reductions at times of

peak COVID-19 activity.

The overall activity of the department decreased by 16%. Reduced activity can be attributed mainly to the pandemic. Urgent outpatient appointments and oncology referrals were maintained during the year. In particular, the PET/CT service was not reduced as a result of COVID-19. Reduced activity in PET/CT can be attributed to replacement of the PET/CT scanner in late 2020.

Comparable Activity Analysis by Modalities

Imaging Modality	2019	2020	Variance
General Radiology + Max Fax	115,788	94,672	-18%
G.I.	816	609	-25%
Mammography	7,668	6,172	-20%
Ultrasound	21,122	18,024	-15%
C.T.	43,062	37,584	-13%
Interventional Radiology	3,432	3,159	-8%
Nuclear Medicine	4,919	4,167	-15%
M.R.I	12,098	10,718	-11%
PET/CT	3,220	2,944	-9%
TOTALS	212,125	178,049	-16%



PET/CT Service:

In 2020, our PET/CT scanner was replaced. The newly installed scanner is a digital PET/CT scanner, providing improved image quality and faster acquisition times. During the replacement of the scanner, PET/CT referrals were outsourced to ensure that the SJH PET/CT Service was maintained. During 2021, it is planned to increase PET/CT activity by recruiting additional staff to support extension of the current working day.

The PET/CT Service also continued to offer PET/CT prostate-specific membrane antigen (PSMA imaging). As the only national centre for PET/CT PSMA imaging, demand is greater than available capacity. Prior to commencing this service, patients requiring this scan had to travel overseas. Additional staffing to support the service could enable service delivery five days per week (Monday to Friday) with 5-20 slots per week, depending on the generator yield. It is hoped that in 2021, the PET/CT PSMA service can be expanded with an investment in staffing resources.

New appointments and retirements

In 2020, Dr Graham Wilson, Consultant Radiologist, retired. Graham is sorely missed from the department. He was one of the last general radiologists who could apply his expertise to anything from mammography to complex biopsies. Unfortunately due to COVID-19 restrictions, his retirement Grand Rounds presentation had to be socially distanced, but we look forward to giving him the farewell he deserves when conditions allow.

In 2020, Beverley Tyrell, Healthcare Assistant (HCA) Coordinator retired after many years' service at SJH. Noel Brazil was appointed to the role.

Other 2020 highlights

During 2020, radiographers at SJH successfully completed the MSc in Medical Imaging Programme (Magnetic Resonance Imaging) at Trinity College Dublin.

The St James's Hospital Radiographers' Education Group also facilitated the following skills courses:

- Radiation Protection for Non-Radiology Medical Practitioners and Hospital Personnel
- IV Skills Training for Radiographers

2021 Objectives

- Ongoing clinical training of undergraduate and postgraduate radiography students
- Ongoing training for specialist radiology registrars
- To increase PET/CT activity by recruiting additional staff
- Expansion of the PET/CT PSMA Service through an investment in staffing resources.



The SCOPE Health and Social Care Professionals (HSCP) Directorate comprises of five departments; Speech and Language Therapy (SLT), Medical Social Work, Clinical Nutrition, Occupational Therapy and Physiotherapy. SCOPE provides a multidisciplinary client-centred holistic inpatient and outpatient service to enhance client independence and quality of life, in keeping with best practice.

11,098 new and 26,418 return outpatients and 22,926 new and 95,127 return inpatients were seen in 2020. SCOPE HSCPs saw 47% of all inpatient admissions per month in 2020. Currently there are 180 WTE HSCPs, 10.50 WTE clerical/ administrative staff and 11.90 WTE attendants.

In March 2020, the HSCP departments of St James's Hospital rapidly transitioned to tele-health when outpatient in-person attendance was no longer permitted, due to COVID-19 restrictions. Patients reported that "it was really good to be able to access SCOPE services from home during COVID and still felt like they were getting the same quality of service". Overall satisfaction was high, with most preferring a combination of tele-health and traditional care.

Performance Highlights

- The rapid change of services and work patterns due to the pandemic. Following review and feedback from staff during Action After Reviews, staff felt supported and were enabled to change services in response to the pandemic so patients received optimal, safe care
- The occupational therapy "Specialised Memory and Attention Rehabilitation Therapy" (SMART) Programme for people with mild dementia, and their carers, switched intervention from group to individual sessions as a result of the COVID-19 pandemic
- The Head/Neck Speech and Language team developed national guidance on tracheoesophageal voice prosthesis management during the pandemic and collaborated with Trinity College Dublin on a national research study "Dysphagia and Communication Difficulties amongst Adults Hospitalised with COVID-19 across Ireland (DISCOVER): A multi-site retrospective cohort study"
- The Departments of Clinical Nutrition and SLT co-chaired the hospital's IDDSI Implementation Steering Group with nursing, in collaboration with the Catering Department and multidisciplinary colleagues to successfully implement a new evidence-based framework for texture modified diets and thickened fluids, for patients who experience dysphagia across specialities in St James's Hospital
- The Clinical Nutrition Department successfully discharged high volumes of cancer patients requiring home enteral nutrition, and managed complex patients requiring home parenteral nutrition, optimising nutritional status and enabling

patients to go home and remain at home during treatment.

- The Physiotherapy team was highly commended at the NOCA Quality Improvement Champion Awards for 'Seven-Day Physiotherapy Stroke Assessment in St James's Hospital' in February, 2020.
- The Physiotherapy OpFit Prehabilitation Programme, a pre-operative exercise programme for patients who are scheduled for cancer surgery, was highly commended and Christy Kelly, Physiotherapy Assistant was awarded an Outstanding Employee Award at HSE Achievement Awards.

Key Objectives for 2021

- To pilot a stroke Early Supported Discharge (ESD) Service. ESD is an international model of best care for stroke patients with mild to moderate deficits post-stroke (Langhorne 2017), that reduces length of hospital stay and institutionalisation, through the provision of stroke-specific rehabilitation in the home setting
- Enhance the SCOPE BI Dashboard, with IMS assistance
- Secure upgraded accommodation for some of the departments within the directorate
- Develop strong partnership with the new Transformation Office and other strategic priorities
- Continue collaboration with the Trinity St James's Cancer Institute and explore expanded HSCP roles and posts for oncology patients
- Secure a permanent source of revenue for SCOPE's long standing temporary posts
- Continued collaboration with the Person Centred Care Committee.



5.2 Pharmacy

The Pharmacy Department works as an integral part of the multi-disciplinary team and provides a pharmacy service that optimises patient outcomes through the safe, judicious, clinically effective, appropriate and cost effective use of medicines.

We source and procure, clinically review, dispense and distribute medicines and selected non-medicinal products within the hospital. A full suite of pharmaceutical services is provided to the hospital and its patients. These include; Pharmacy Procurement, Medicines Management, Clinical Pharmacy Services including specialist Haematology, Oncology and Palliative Care Directorate (HOPE) and Department of Genitourinary Medicine and Infectious Diseases (GUIDe) Clinical Pharmacy Services and Aseptic Compounding services (ACU). A pharmacy outpatient service is provided to Tuberculosis (TB) patients and GUIDe patients. We provide pharmaceutical services, both products and staff, to St Luke's Hospital, Rathgar. Both pharmacies are registered with the Pharmaceutical Society of Ireland, under the Pharmacy Act. The Pharmacy Department actively contributes to the education of nursing, medical and pharmacy staff within the hospital and at undergraduate level.

Performance Highlights of 2020

Although the COVID-19 global pandemic impacted the hospital immensely throughout 2020, the Pharmacy Department strove to continue a quality service to the best of our ability.

A key milestone for the Pharmacy Department and hospital was the publication on 9 March 2020 of the report from the Health Information and Quality Authority (HIQA) regarding its inspection of the medication safety and structures in the hospital in December 2019. The report was complimentary of the Medication Safety Programme. The report noted the introduction of the electronic medication prescribing and administration in October 2018 had a significantly positive impact on medication safety.

Medicines Management and ACU Services successfully continued throughout 2020 to provide:

- 855,839 packs purchased via the Pharmacy Procurement Office to the value of €72million
- 402,432 transactions processed through Medicines Management Dispensary Services
- 22,403 items manufactured or processed through the ACU
- Lean Ward Medicines Management continued throughout the hospital

The ACU liaised with the Clinical Research Facility in the development of a Gene Therapy Service. This is the first gene therapy service in the Republic of Ireland.

The Clinical Pharmacy Service continued to provide medicines reconciliation on admission. A total of 16,761 medication reconciliation episodes were completed in 2020, 47% of which were completed within 24 hours and 87% within 72 hours. A clinical review of medication for inpatients, medicines information, promotion of cost effective use of medication and patient medication education also took place. The Pharmacy Admissions Service was augmented by two

Basic Grade Pharmacists, and a team-based model was introduced. Specific prescribing advice was developed and uploaded onto the Prescriber's Guide for COVID-related issues.

A Medicines Information Service was introduced to the department.

Two medication safety audits were completed in tandem with the Medication Safety Facilitator:

- Prescribing and administration of Parkinson's medications
- Management of Hyperkalaemia (re-audit)

The Clinical Pharmacy Team and Medication Safety Facilitator, in conjunction with the Cardiology Medical and Nursing team, collaborated on Heparin prescribing and facilitated the introduction of a Heparin prescription into the Cardiac Catheterisation Laboratory (Cath Lab), for the treatment of acute hyperkalaemia.

2021 Objectives

In 2021 the department aims to build on the progress achieved in 2020, including:

- Utilising EPMAR to develop best in class workflows for our Clinical Pharmacy and Medicine Management Services and to support staff in the safe prescribing and administration of medication
- Expanding our procurement activity, increase our expertise and harness greater value for money
- Demonstrating the quality and cost effectiveness of our Pharmacy Service by relevant KPIs and research
- Implementing compounding robotics into the department
- Implementing NCIs into the department.
- 2020 was another exciting, challenging and busy year for the Pharmacy Department. The department met these challenges, maintained its core activity and also managed to expand services. In 2021 the department will continue to build and expand upon those achievements.

5.3 National Medicines Information Centre (NMIC)

The National Medicines Information Centre (NMIC) provides independent, evidence-based information and advice. The NMIC Service aims to promote the safe, effective and efficient use of medicines through information provision, mainly through a Clinical Enquiry Answering Service (CEAS) to prescribers and the provision of proactive information to all healthcare professionals through our publications; Therapeutics Today and the NMIC therapeutics bulletins. Our team of pharmacists and doctors are trained in information retrieval and analysis and uses a range of information sources, including; specialist texts, information databases and primary journals.

Both NMIC publications are available on our website (www.nmic.ie) and are distributed nationally to healthcare professionals. The NMIC also has an educational role in promoting the safe and effective use of medicines. This is demonstrated through involvement in teaching various groups, including medical and pharmacy undergraduate and postgraduate students, GP trainees, NCHDs and GPs.

Performance Highlights 2020

2020 was a busy and productive year in the NMIC.

Clinical Enquiry Answering Service (CEAS)

Following a review of NMIC services, from 1 January 2020, the CEAS became available to prescribers only. We continued to provide information support to prescribers to assist them in the management of patients with increasingly complex pharmacotherapeutic needs. Some key performance highlights include:

- Over 82% of enquiries to our CEAS originated in primary care
- Over 99% of enquiries to our CEAS were patient-centred
- Information and advice were most commonly requested about the choice of therapy, drug interactions, dose and adverse drug reactions.

Monthly user satisfaction surveys indicated a high level of confidence in the quality of the information provided via the NMIC CEAS. In 2020, over 96% of respondents stated they would use the service again.

Education

- Education and training sessions (mainly online) on therapeutics were delivered to GP trainees, NCHDs, undergraduate and postgraduate pharmacy, Advanced Nurse Practitioners and medical students
- The NMIC launched a new educational initiative in the form of eLearning modules for healthcare professionals. The learning modules are hosted on HSeLanD and consist of an NMIC bulletin with an accompanying assessment. A certificate is generated upon successful completion of the module. The 2020 modules were approved for two external CPD credits by the ICGP.

Collaborative work

- The NMIC completed enquiries from the HSE COVID-19 Clinical Guidance Development Group and the HSE Library COVID-19 Evidence team
- Continued collaboration with, and support of organisations, such as the Department of Health, HPRA, HSE Medicines Management Programme, ICGP, HSE, IOP and RCPI
- Engagement with Advanced Nurse Practitioners highlighting the role of the NMIC.
- Ongoing contribution to the work of the SJH Pharmacy & Therapeutics, Medication Safety, and New Drugs committees.

Staff changes

Emer Maloney (Senior Pharmacist) joined the NMIC team

Objectives For 2021

We will endeavour to continue to provide a high-quality service that remains patient-focused and responsive to the needs of our users.

Further engagement with the GP Training Programmes/GP Faculties and Advanced Nurse Practitioners nationwide to increase awareness of the NMIC as an important resource to support prescribers in their everyday practice. Continued production of accredited NMIC bulletin eLearning modules.



**OVER 82% OF ENQUIRES
TO OUR CEAS ORIGINATED IN PRIMARY CARE**

6.1 The William Stokes Post-Graduate Centre

"We Work in Teams, We Train in Teams"- Excellence in Patient Care

St James's Hospital (SJH) is Ireland's largest acute academic teaching hospital. Our educational vision is to be a leader in education, research and innovation with a particular emphasis on inter-professional education. SJH supports a large number of doctors in training and takes great pride in its reputation as a centre for top class teaching and training of our postgraduate staff. As a level four training hospital, teaching obligations and responsibilities are delivered in many guises across the medical disciplines and specialties, including Grand Rounds (medical and surgical), Medical Update, intern and SHO teaching, speciality-specific teaching and journal clubs, MDT's & research meetings, case conferences, seminars etc. The Postgraduate Centre facilities are available to deliver and support medical education programmes and the centre plays a key role in the organisation, coordination and ongoing development of medical education, in close liaison with Trinity College Dublin (TCD), Royal College of Physicians of Ireland (RCPI), Royal College of Surgeons in Ireland (RCSI), National Doctors Trainin and Planning (NDTP) and our community partners in general practice (GPs).

The future development of postgraduate education will see a focus on interprofessional learning and hospital-based "translational simulation". Funding received from NDTP towards simulation development is a welcomed development to allow these proposals to progress further. Our goal is to establish world-class, interdisciplinary and multidisciplinary training programmes with patient safety and clinical excellence as the drivers to achieve our desired educational outcomes. "Translational simulation" ensures that patient safety, clinical excellence and operational excellence are our drivers of training for all our staff.



Performance Highlights 2020

We would like to extend thanks and appreciation to Prof. Declan Byrne who stepped down as Director of Postgraduate Education in 2019 and welcome Dr Darragh Shields who took up the post of Director of Medical Education / Intern Tutor in early 2020. As Director of Education, Dr Shields holds responsibility for developing and supporting the profile of medical education across the hospital site.

A Medical Education Committee was established representing all disciplines and it held its inaugural meeting in January 2020. The role of the Committee is to provide governance and accountability to the Hospital Board by maintaining a strategic overview of the hospital's educational, training and teaching arrangements in line with the requirements of regulatory bodies.

The COVID-19 pandemic presented many educational delivery challenges to the centre which has successfully continued to host hospital Grand Rounds, and teaching and hospital accreditation inspections in a virtual environment. Induction of an increased number of interns for 2020/2021 staff has continued successfully in smaller groups. The Postgraduate Centre has also temporarily facilitated the relocation of HOPE Directorate clinical facing staff in two teaching rooms.

2021 Objectives

We look forward to the further development of an enhanced simulation programme for interprofessional training at SJH to focus directly on improving patient care and healthcare systems in 2021.

Awards

Dr Kate Kennedy and Dr Michael O'Shea were awarded the intern medal from the Intern Class of 2020.



7.1 Clinical Research Facility (CRF)

The Wellcome – Health Research Board (HRB) Clinical Research Facility (CRF) at St James’s Hospital (SJH) supports Trinity College (TCD) and SJH based investigators conducting clinical research with hospital patients. This is accomplished by providing access to purpose built facilities, equipment and specialist services that enable high-quality clinical research to take place. The CRF is led by Professor Martina Hennessy, Director, and by Professor Elisabeth Vandenberg, Associate Director for Cancer Research and Professor David Kevans, Associate Director for Non-Cancer Research.

The CRF is funded by the Wellcome Trust and the HRB and is jointly governed by the hospital and TCD. The CRF is a clinical area and includes clinical assessment rooms, an exercise physiology room, an electrophysiology suite, isolation rooms, a six-bed day ward, a research pharmacy and aseptic compounding suite and a sample processing laboratory. The services provided by the CRF include; advice on the preparation of protocols and funding applications, contract negotiations, research pharmacy, research nursing, regulatory affairs advice and sample processing.

The CRF is available for wide range of research, which includes experimental medicine and early phase clinical trials, Phase III clinical trials, studies involving exercise physiology/physiotherapy and electrophysiology studies. It supports clinical research conducted by a wide range of health professionals including, but not limited to medical and surgical specialties, nursing, physiotherapy and occupational therapy, clinical nutrition, podiatry, social work, pharmacy, bioengineering, psychology and health informatics.

Performance highlights 2020

For the CRF, 2020 was dominated by three themes:

1. The start of advanced therapy trials including gene therapies
2. COVID-19 and its impact on clinical research
3. Relocation of cancer clinical trial activity to the CRF.

1. First Gene Therapy Treatment in Ireland

The first quarter of 2020 saw the first gene therapies in Ireland being provided to three of the hospital’s haemophilia patients under the care of Dr Niamh O’Connell. Following licensing by the Environmental Protection Agency (EPA) for the controlled release of genetically modified organisms (GMOs), the CRF’s purpose-built research pharmacy facilities were used to



prepare gene therapy doses that were administered to patients in the CRF. Following on from this success, the CRF was approached by Children's Health Ireland to treat three infants with spinal muscular atrophy (Type 1) with a novel gene therapy for treating this devastating disease.

<https://www.irishtimes.com/news/health/irish-haemophilia-patients-given-functional-cure-1.4430168>

<https://www.donegaldaily.com/2020/08/29/petition-calls-on-hse-to-treat-little-livie-in-ireland/>

2. COVID-19

Following the gene therapy trials, the emergence of COVID-19 in the hospital had a major impact on the CRF's activities. While no new clinical trial patients were recruited from a patient safety perspective, it was vital that patients already recruited to trials were followed up. With the CRF being close to the hospital's COVID wards, this required a relocation of some of the CRF's trial follow-up activities to the nearby Trinity Centre, where trial patients were seen by physicians and research nurses in clinical training facilities used by the TCD School of Nursing.

With the first wave of COVID-19, the CRF's staff rapidly turned their attention to COVID-19 clinical trials and research projects. Notable trials and studies included:

1. The WHO SOLIDARITY Trial led by Professor Colm Bergin and colleagues in Infectious Diseases, Respiratory Medicine and ICU, which recruited 18 patients.
2. A trial of a treatment for patients in ICU led by Professor Ignacio Martin Loeches and colleagues in ICU.
3. The STARR Bioresource Project, which involved the collection of patient samples for hospitalised COVID patients and SJH staff members who contracted COVID-19. These samples are being used by investigators to conduct research into understanding why people infected by COVID-19 infection are affected in different ways.
4. Contribution to the international SPRINT SARI Registry of patients hospitalised with COVID-19 disease to aid international comparisons of the natural history of COVID-19 disease experienced in different countries.

3. Relocation of Cancer Clinical Trials

In 2019, Professor Elisabeth Vandenberg was appointed as an associate director of the CRF and 2020 saw the relocation of some cancer clinical trial activity to the CRF. Clinically led by Professors Lowery and Vandenberg moved from the Haematology/Oncology Day Centre and this provided trial patients with a less crowded environment making participation in clinical trials easier for patients.

Late in 2020, the CRF was invited by the HRB to apply for a further five years of funding and this application will be submitted in early 2021.



7.2 Research and Innovation (R&I) Office

The Research and Innovation (R&I) Office is a joint venture between the hospital and the Wellcome-Health Research Board (HRB) Clinical Research Facility (CRF). It entered its sixth year of operation in 2020 and acts to maintain oversight of hospital-based research activity, in addition to working to support and strengthen the research culture on campus.

An online R&I research application form must be completed and submitted for review before starting any study, and applies to all forms of research, audit and quality improvement projects. Support is provided in a 'sign posting' capacity and includes guidance on local procedures and the available local resources, in addition to assistance with study classification, and clarification of any associated documentation or further approvals required. A guidance document is available on the R&I Office webpage on the intranet (and hospital website), explaining how to complete an R&I application, and a number of document templates are also located there (e.g. Ethics Application information, Data Protection Impact Assessment forms, Nursing Research Access Study Protocol, etc.).

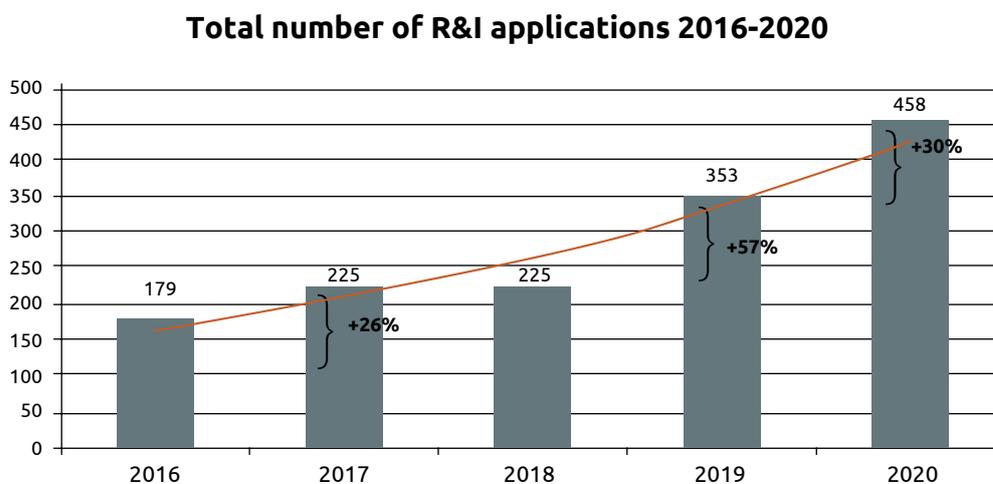
An R&I Steering Committee, jointly chaired by Ann Dalton (SJH Deputy CEO) and Professor Martina Hennessey (CRF Director), meets quarterly to monitor trends in activity, share information across disciplines and plan for the future development of the R&I office. The Committee met three times in 2020.

Performance Highlights 2020

Applications

In 2020, 458 applications were received and processed via the R&I Office, an increase of 105 on the previous year. We can see in Figure 1 that this number is increasing year-on-year with a 30% increase noted from 2019 - 2020.

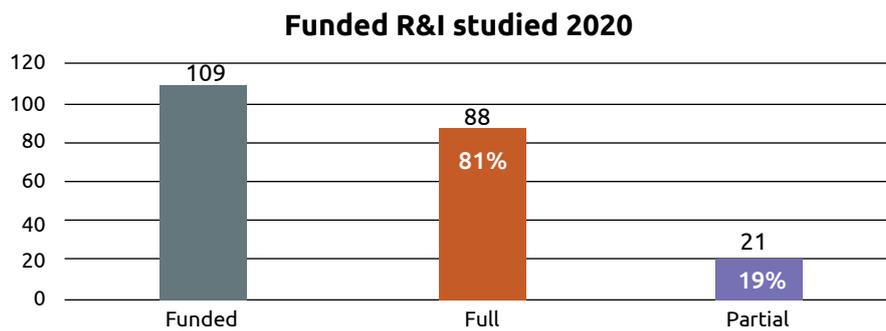
Figure 1: R&I applications (year-on-year)



Funded Studies

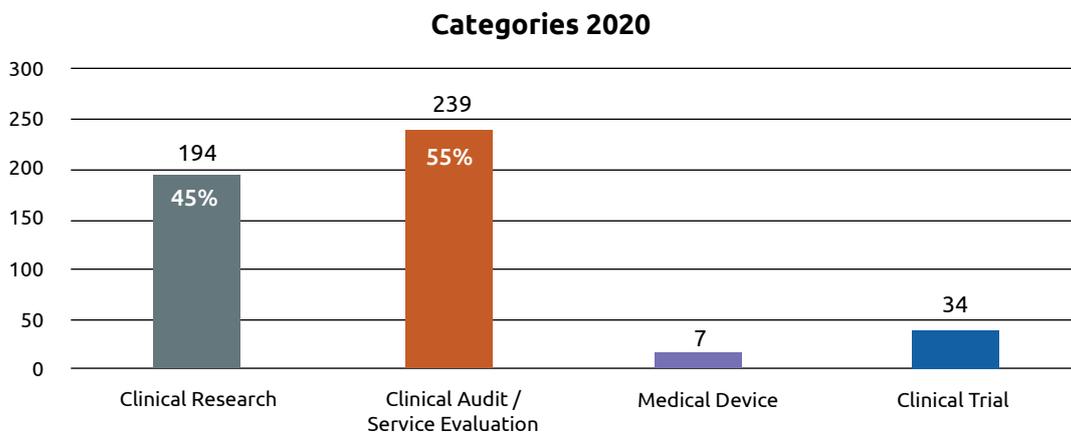
Of the applications received, the majority (71% / n=335) did not receive any funding. Therefore, only 29% (approx.) of studies received some form of funding. Of the 109 funded, 88 studies (81%) were fully funded while 21 (19%) received partial funding (Figure 2). Most of the funding source was identified as 'Pharma / Industry' (approx. 90%) with other sources being grants, locally held departmental accounts, HRB, HSE, Trinity College (TCD), National Treatment Purchase Fund (NTPF), Science Foundation Ireland (SFI), World Health Organisation (WHO), Enterprise Ireland or Scholarships.

Figure 2: Funded Studies 2020



45% of applications (n= 194) were categorised as clinical research and 55% (n=239) as clinical audit / service evaluation. This number included seven medical device trials and 34 clinical trials (Figure 3).

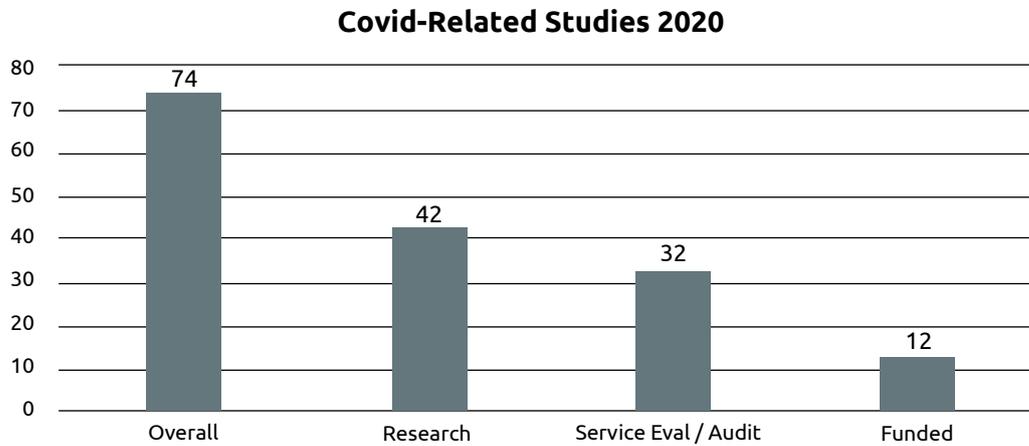
Figure 3: Application categories



SARS-CoV2 (COVID) related studies

From March to December 2020, 74 COVID-related studies were received. 42 (57%) were categorised as clinical research and 32 (43%) were categorised as audit/ service evaluation (Figure 4). These studies ranged from Clinical Trials to Service Evaluations, Telehealth / Virtual Clinic evaluation.

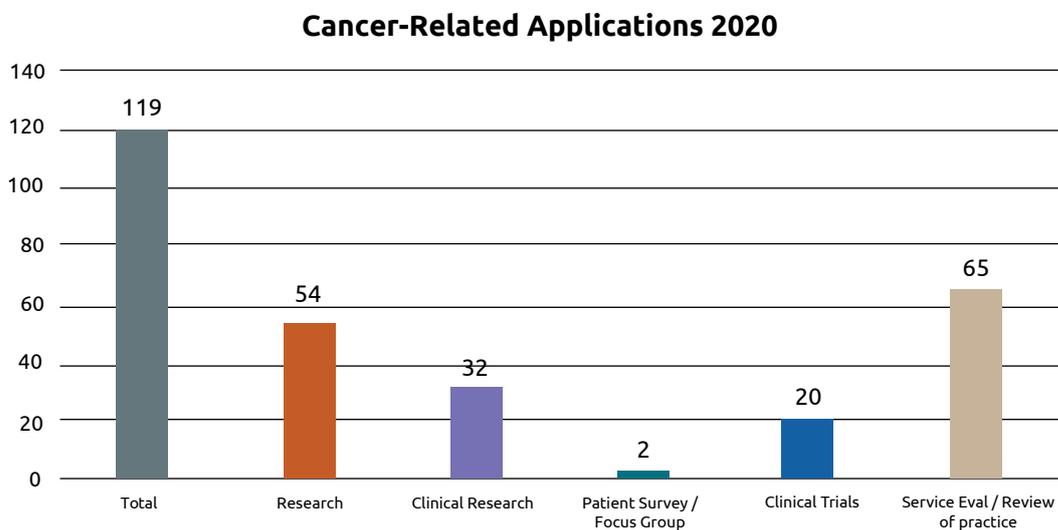
Figure 4: COVID-related applications 2020



Cancer-related studies

Of the 433 applications received, 27% (n=119) were cancer-related. This field is dependent on the applicant answering 'yes' to the question "Is this study Cancer-related?". These studies ranged from clinical trials to clinical research and service evaluation/ audit (Figure 5).

Figure 5: Cancer-related applications 2020



Joint Research Ethics Committee update (Infonetica)

The Joint Research Ethics Committee continued to meet monthly in 2020 (with exceptions in August and December). On 11 April, 2020 the Department of Health and Children formed a National Research Ethics Committee (NREC) to review COVID-19 research studies. A new online system is being developed with a software company (Infonetica), which is jointly funded by St James's (SJH) and Tallaght University (TUH) Hospitals. The current application form is being built into the new software and super-user training will occur in January 2021 for TUH and SJH staff.

Claire O' Donoghue (Cancer Clinical Trials Office) and Julie O' Grady (R&I Interim Programme Manager) are involved in this process, in liaison with the SJH Deputy CEO, Data Protection Officer and the Legal and Insurance Manager. Training for SJH staff will take place once the software system is live (Feb 2021).

Staffing

The R&I Programme Manager went on leave in June 2020. Julie O' Grady, Clinical Nurse Manager 3, Nursing Practice Development Unit, took up the position in June 2020 (until March 2021).

Objectives for 2021

- Education and training on newly established on-line ethics process (Infonetica)
 - Recruit additional administrative staff to R&I Office (Grade V and Grade VII)
 - Work with IMS on refining the application form to include output data
 - Further development of the R&I SOP in response to regulatory changes
 - Update R&I guidance document
 - Develop an SJH research strategy 2021-2023
 - Liaise with QSID regarding the clinical audit process
 - Provide education/ training at staff induction / grand rounds / local departmental in-service education sessions etc. to increase the knowledge base on the R&I application process. This may include an online education programme / pre-recorded information session available on the intranet
 - To strengthen communication within the research community in SJH
 - Build on relationships with the CRF, Trinity St James's Cancer Institute (TSJCI), JREC, Finance Dept. etc.
-



8.1 Quality and Safety Improvement (QSID)

The Quality and Safety Improvement Directorate (QSID) exists to help frontline and supporting services provide patient care that is safe, high-quality and person-centred. The QSID team's work includes patient safety and risk management, quality assurance, promoting person-centred care, responding to patient and family feedback on behalf of the hospital and helping staff develop and apply quality improvement knowledge and skills. The QSID aims to support and enable all services in the hospital in the effective implementation of the National Standards for Safer Better Healthcare (2012) and other national standards and guidelines relevant to the services they provide.

Performance highlights 2020

Impact of the COVID-19 pandemic

- Staff were redeployed from the QSID to support the ICU and Occupational Health Service teams from mid-March to June 2020 in response to the first COVID-19 surge and the QSID Leadership team enabled the establishment of expanded Occupational Health and Contact Tracing Services during this period.
- The risks experienced by patients, staff and the hospital due to the COVID-19 pandemic were captured through adverse incident reporting, COVID-19 risk assessments, after action reviews for frontline services and patient and family feedback. This information informed the hospital's management responses and systems learning in relation to the pandemic.

Person-centred care and support

- The hospital's Patient Charter was revised and new guidelines introduced for the development of patient information materials.
- Multi-disciplinary initiatives to promote person-centred care across the hospital in response to the COVID-19 pandemic included the establishment of a Virtual Visiting Service during COVID-19, the provision of COVID-19 gift packs for patients, the development of a staff wellbeing app.

- The QSID Person-Centred Care Manager supported the Patient Representative Group in their work during 2020.

Effective care and support

- The QSID Quality Assurance Manager supported services in participating in national and international accreditation programmes, audits and regulatory inspections.
- The effectiveness of clinical services was monitored and evaluated through clinical audit and improved through the implementation of learning from audit findings. The hospital participated in audits supported by the National Office for Clinical Audit including the National Audit of Hospital Mortality, Irish National ICU Audit, Major Trauma Audit and the Irish Hip Fracture Database, and in a range of specialist service national and international audits. 81 clinical audits and 153 service evaluations were registered by SJH staff through the Research & Innovation Hub portal during 2020.

Safe care and support

- Safety and risk management activity included; staff training, the management of regulatory notifications, adverse incident reporting, safety management and safety learning reviews.
- Adult safeguarding governance, management and training were strengthened across the hospital.

Governance

- The hospital's Quality and Safety Governance Framework was re-structured with the introduction of an executive Hospital Safety and Quality Assurance Governance Committee and the replacement of the Hospital Safety Committee with a new Hospital Quality Safety and Risk Management (HQSRM) Committee. Five HQSRM meetings were facilitated in 2020.
- The hospital's Quality and Safety Governance Committees provided assurance and led improvements across 25 safety and quality programmes of work.

- The adoption of virtual meetings enabled increased staff attendance at quality and safety governance meetings.

Key objectives for 2021

The priority objectives for 2021 is to recover quality and safety improvement services following the disruption caused by the COVID-19 pandemic and further support and engage patients and staff in quality and safety improvement.



9.1 Patient Representative Group

The Patient Representative Group (PRG) was formed in March 2016. The representatives serve as an advisory resource to staff of the hospital and help the staff to see the hospital from the patient perspective. The PRG provides a forum for patients and family members to engage with hospital staff to provide feedback and advice and contribute to the hospital's decision making processes. During 2020 monthly meetings were held virtually as a result of COVID-19 restrictions.

Performance Highlights

- The PRG strategy 2021 to 2026 was developed and currently awaits QSR. Development of the strategy involved three meetings, including an externally facilitated workshop delivered by Ms Caroline O'Regan, Executive Development Specialist, RCSI. The PRG met Prof. Day, CEO, in December 2020, to consult on their draft strategy
- Two PRG nominees were selected by the group in response to an invitation from the QSR Committee's Chairperson for the PRG to contribute to the committee's work
- The PRG offered peer support for a new Cancer Care PRG within the Trinity St James's Cancer Institute development
- Five PRG staff engagement meetings were held in 2020.

2020 Objectives

- Develop a work plan to implement goals outlined in PRG strategy:
 - The patient voice will be heard and responded to
 - Patients' experiences of care will be improved
 - Patients' health and wellbeing will be protected and promoted
 - Patients and staff will be helped to communicate and collaborate better
 - The PRG will sustain and increase its effectiveness.
- Recruitment of new PRG members
- Secure resources to support expansion of the group and actions proposed in the PRG strategy.

Several members of the PRG resigned during 2020. We wish to acknowledge and thank Ms Rosanne Farrell, Ms Sheila Elmes, Mr Derek Ward and Ms Teri Byrne for giving their time and sharing their knowledge and experience with the hospital.



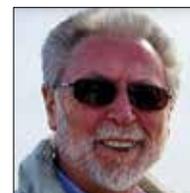
Mr Damien Nee



Mr Peter Hartnett



Ms Orlaith Brennan



Mr Pat Rooney



Mr Joe Bowden



Ms Lora Ruth Wogu



Mr Michael Foley

Other members

Ms Rosanna Farrell
Ms Sheila Elmes
Mr Derek Ward
Ms Maire Fennin

sj Reception

↑ Route 1 ↑

WELCOME TO

sj St James's Hospital

sj Safer Better Care



10.1 Publications

HOPe Directorate

Silva R, Moran B, Russell NM, Fahey C, Vlajnic T, Manecksha RP, Finn SP, Brennan DJ, Gallagher WM, Perry AS. Evaluating liquid biopsies for methylomic profiling of prostate cancer. *Epigenetics*, 15(6-7):715-727, 2020. PMID: 32000564.

O’Gorman P, Naimimohasses S, Monaghan A, Kennedy M, Finn SP, Moore JB, Gormley J, Norris S. Letter: proving the benefit of exercise intervention in metabolic associated fatty liver disease-authors’ reply. *Aliment Pharmacol Ther*, 52(8):1426-1427, 2020. PMID: 33105979.

Flynn L, Barr MP, Baird AM, Smyth P, Casey OM, Blackshields G, Greene J, Pennington SR, Hams E, Fallon PG, O’Leary J, Sheils O, Finn SP. Prostate cancer-derived holoclones: a novel and effective model for evaluating cancer stemness. *Sci Rep*, 10(1):11329, 2020. PMID: 32647229.

O’Gorman P, Naimimohasses S, Monaghan A, Kennedy M, Melo AM, Ní Fhloinn D, Doherty DG, Beddy P, Finn SP, Moore JB, Gormley J, Norris S. Improvement in histological endpoints of MAFLD following a 12-week aerobic exercise intervention. *Aliment Pharmacol Ther*, 52(8):1387-1398, 2020. PMID: 32717123.

Hashim D, Gonzalez-Feliciano AG, Ahearn TU, Pettersson A, Barber L, Pernar CH, Ebot EM, Isikbay M, Finn SP, Giovannucci EL, Lis RT, Loda M, Parmigiani G, Lotan T, Kantoff PW, Mucci LA, Graff RE. Family history of prostate cancer and the incidence of ERG- and phosphatase and tensin homolog-defined prostate cancer. *Int J Cancer*, 146(10):2694-2702, 2020. PMID: 31318977.

Allott EH, Ebot EM, Stopsack KH, Gonzalez-Feliciano AG, Markt SC, Wilson KM, Ahearn TU, Gerke TA, Downer MK, Rider JR, Freedland SJ, Lotan TL, Kantoff PW, Platz EA, Loda M, Stampfer MJ, Giovannucci E, Sweeney CJ, Finn SP, Mucci LA. Statin Use Is Associated with Lower Risk of PTEN-Null and Lethal Prostate Cancer. *Clin Cancer Res*, 26(5):1086-1093, 2020. PMID: 31754047.

Peters S, Danson S, Hasan B, Dafni U, Reinmuth N, Majem M, Tournoy KG, Mark MT, Pless M, Cobo M, Rodriguez-Abreu D, Falchero L, Moran T, Ortega Granados AL, Monnet I, Mohorcic K, Sureda BM, Betticher D, Demedts I, Macias JA, Cuffe S, Luciani A, Sanchez JG, Curioni-Fontecedro A, Gautschi O, Price G, Coate L, von Moos R, Zielinski C, Provencio M, Menis J, Ruepp B, Pochesci A, Roschitzki-Voser H, Besse B, Rabaglio M, O’Brien MER, Stahel RA. A Randomized Open-Label Phase III Trial Evaluating the Addition of Denosumab to Standard First-Line Treatment in Advanced NS-CLC: The European Thoracic Oncology Platform (ETOP) and European Organisation for Research and Treatment of Cancer (EORTC) SPLENDOUR Trial. *J Thorac Oncol*, 15(10):1647-1656, 2020. PMID: 32565388.

Harrold EC, Idris AF, Keegan NM, Corrigan L, Teo MY, O’Donnell M, Lim ST, Duff E, O’Donnell DM, Kennedy MJ, Sukor S, Grant C, Gallagher DG, Collier S, Kingston T, O’Dwyer AM, Cuffe S. Prevalence of Insomnia in an Oncology Patient Population: An Irish Tertiary Referral Center Experience. *J Natl Compr Canc Netw*. 18(12):1623-1630, 2020. PMID: 33285516.

Hu L, Shen D, Liang D, Shi J, Song C, Jiang K, Menglin Ren, Du S, Cheng W, Ma J, Li S, Bi X, Barr MP, Fang Z, Xu Q, Li W, Piao H, Meng S. Thyroid receptor-interacting protein 13 and EGFR form a feedforward loop promoting glioblastoma growth. *Cancer Lett*, 27:493:156-166, 2020. PMID: 32860853.

Burgess JT, Bolderson E, Adams MN, Duijf PHG, Zhang S-D, Gray SG, Wright GM, Richard DJ, and O’Byrne KJ. (2020). SASH1 is a prognostic indicator and potential therapeutic target in non-small cell lung cancer. *Scientific Reports*, 10(1):18605, 2020. PMID: 33122723.

Quinn L, Scott KR, Finn SP, Hayes M and Gray SG. An in vitro study determining the anti-inflammatory activities of sinapinic acid-containing extracts generated from Irish rapeseed meal. *Medical Research Archives*. 8(10), 2020.

Chellamuthu A, Gray SG. The RNA Methyltransferase NSUN2 and Its Potential Roles in Cancer. *Cells*, 9(8):1758, 2020. PMID: 32708015.

Gray SG, Mutti L. Immunotherapy for mesothelioma: a critical review of current clinical trials and future perspectives. *Transl Lung Cancer Res*, 9(Suppl 1):S100-S119, 2020. PMID: 32206576.

Sui JSY, Martin P, Gray SG. Pre-clinical models of Small Cell Lung Cancer and the validation of therapeutic targets. *Expert Opin Ther Targets*, 24(3):187-204, 2020. PMID: 32068452.

Malone T, Schäfer L, Simon N, Heavey S, Cuffe S, Finn S, Moore G, Gately K. Current perspectives on targeting PIM kinases to overcome mechanisms of drug resistance and immune evasion in cancer. *Pharmacol Ther*, 207:107454, 2020. PMID: 31836451.

Luszczak S, Simpson BS, Stopka-Farooqui U, Sathyadevan VK, Echeverria LMC, Kumar C, Costa H, Haider A, Freeman A, Jameson C, Ratynska M, Ben-Salha I, Sridhar A, Shaw G, Kelly JD, Pye H, Gately KA, Whitaker HC, Heavey S. Co-targeting PIM and PI3K/mTOR using multikinase inhibitor AUM302 and a combination of AZD-1208 and BEZ235 in prostate cancer. *Sci Rep*, 10(1):14380, 2020. PMID: 32873828

Luszczak S, Kumar C, Sathyadevan VK, Simpson BS, Gately KA, Whitaker HC, Heavey S. PIM kinase inhibition: co-targeted therapeutic approaches in prostate cancer. *Signal Transduct Target Ther*, 5(1):7, 2020. PMID: 32296034.

Kauczor HU, Baird AM, Blum TG, Bonomo L, Bostantzoglou C, Burghuber O, Čepická B, Comanescu A, Couraud S, Devaraj A, Jespersen V, Morozov S, Agmon IN, Peled N, Powell P, Prosch H, Ravara S, Rawlinson J, Revel MP, Silva M, Snoeckx A, van Ginneken B, van Meerbeeck JP, Vardavas C, von Stackelberg O, Gaga M; European Society of Radiology (ESR) and the European Respiratory Society (ERS). ESR/ERS statement paper on lung cancer screening. *Eur Radiol*, 30(6):3277-3294, 2020. PMID: 32052170.

Berghmans T, Lievens Y, Aapro M, Baird AM, Beishon M, Calabrese F, Dégi C, Delgado Bolton RC, Gaga M, Lövey J, Luciani A, Pereira P, Prosch H, Saar M, Shackcloth M, Tabak-Houwaard G, Costa A, Poortmans P. European Cancer Organisation Essential Requirements for Quality Cancer Care (ERQCC): Lung cancer. *Lung Cancer*, 150:221-239, 2020. PMID: 33227525.

Toomey S, Carr A, Mezynski MJ, Elamin Y, Rafee S, Cremona M, Morgan C, Madden S, Abdul-Jalil KI, Gately K, Farrelly A, Kay EW, Kennedy S, O'Byrne K, Grogan L, Breathnach O, Morris PG, Eustace AJ, Fay J, Cummins R, O'Grady A, Kalachand R, O'Donovan N, Kelleher F, O'Reilly A, Doherty M, Crown J, Hennessy BT. Identification and clinical impact of potentially actionable somatic oncogenic mutations in solid tumor samples. *J Transl Med*, 18(1):99, 2020. PMID: 32087721.

van den Heerik ASVM, Horeweg N, Nout RA, Lutgens LCHW, van der Steen-Banasik EM, Westerveld GH, van den Berg HA, Slot A, Koppe FLA, Kommos S, Mens JWM, Nowee ME, Bijmolt S, Cibula D, Stam TC, Jurgenliemk-Schulz IM, Snyers A, Hamann M, Zwanenburg AG, Coen VLMA, Vandecasteele K, Gillham C, Chargari C, Verhoeven-Adema KW, Putter H, van den Hout WB, Wortman BG, Nijman HW, Bosse T, Creutzberg CL. PORTEC-4a: international randomized trial of molecular profile-based adjuvant treatment for women with high-intermediate risk endometrial cancer. *Int J Gynecol Cancer*. 2020 Dec;30(12):2002-2007.

Wortman BG, Astreimidou E, Laman MS, van der Steen-Banasik EM, Lutgens LCHW, Westerveld H, Koppe F, Slot A, van den Berg HA, Nowee ME, Bijmolt S, Stam TC, Zwanenburg AG, Mens JWM, Jürgenliemk-Schulz IM, Snyers A, Gillham CM, Weidner N, Kommos S, Vandecasteele K, Tomancova V, Creutzberg CL, Nout RA. Brachytherapy quality assurance in the PORTEC-4a trial for molecular-integrated risk profile guided adjuvant treatment of endometrial cancer. PORTEC Study Group. *Radiother Oncol*. 2020 Nov 5;155:160-166

Power Foley M, Kelly ME, Kerr C, Kennedy C, Gallagher D, Gillham C, Mehigan BJ, McCormick PH,

Bergin C, Larkin JO. Management of anal intraepithelial neoplasia and anal squamous cell carcinoma at a tertiary referral centre with a dedicated infectious diseases unit: an 18-year review. *International Journal of Colorectal Disease*, 04 Jun 2020

Lang P, Contreras J, Kalman N, Paterson C, Bahig H, Billfalk-Kelly A, Brennan S, Rock K, Read N, Venkatesan V, Sathya J, Mendez LC, MacNeil SD, Nichols AC, Fung K, Mendez A, Winqvist E, Kuruvilla S, Stewart P, Warner A, Mitchell S, Theurer JA, Palma DA. Preservation of swallowing in resected oral cavity squamous cell carcinoma: examining radiation volume effects (PRESERVE): study protocol for a randomized phase II trial. *Radiat Oncol*. 2020 Aug 14;15(1):196.

Crotty T, Keane E, Cousins G, Brennan S, Kinsella J, Moran T. Sexual Behaviour and Human Papillomavirus-Positive Oral Cavity and Oropharyngeal Cancer: An Irish Perspective. *Cureus* 2020 Nov 10;12(11)

Kalot MA, Al-Khatib M, Connell NT, Flood V, Brignardello-Petersen R, James P, Mustafa RA and VWD working group (including O'Donnell JS). An international survey to inform priorities for new guidelines on von Willebrand disease.

Haemophilia, 2020 Jan;26(1):106-116. PMID: 31769905

Fazavana J, Brophy T, Chion A, Cooke N, Terraube V, Cohen J, Parnig C, Pittman D, Cunningham O, Lambert M, O'Donnell JS and O'Sullivan JM. Investigating the role of the A-domains in regulating VWF clearance using site-directed PEGylation and novel N-linked glycosylation. **Journal of Thrombosis and Haemostasis**, 2020 Jun;18(6):1278-1290. doi: 10.1111/jth.14785. Epub 2020 Mar 30. PMID: 32108991.

O'Sullivan JM and O'Donnell JS. Antithrombin inhibition using

nanobodies to correct bleeding in hemophilia. **EMBO Molecular Medicine**, 2020 EMBO Mol Med. 2020 Apr 7;12(4):e12143. PMID: 32212299

Fogarty H, Doherty D, and O'Donnell JS. New Developments in von Willebrand disease.

British Journal of Haematology, 2020 Nov;191(3):329-339. doi: 10.1111/bjh.16681. Epub 2020 May 12. PMID: 32394456.

McGonagle D, O'Donnell JS, Bridgewood C. Immune mechanisms of pulmonary intravascular coagulopathy in COVID-19 pneumonia. **Lancet Rheumatology**, 2020 Jul;2(7):e437-e445. doi: 10.1016/S2665-9913(20)30121-1. PMID: 32835247.

[6] Fogarty H, Townsend L, Ni Cheallaigh C, Bergin C, Martin-Loeches I, Gaule R, Gillett R, Byrne M, Ryan K, O'Connell NM, O'Sullivan JM, Conlon N, and O'Donnell JS. COVID-19 Coagulopathy in Caucasian patients. **British Journal of Haematology**, 2020 Jun;189(6):1044-1049. doi: 10.1111/bjh.16749. PMID: 32330308

Fogarty H, Townsend L, Ni Cheallaigh C, Bergin C, Martin-Loeches I, Gaule R, Gillett R, Byrne M, Ryan K, O'Connell NM, O'Sullivan JM, Conlon N, and O'Donnell JS. More on COVID-19 Coagulopathy in Caucasian patients – **British Journal of Haematology**, 2020 Jun;189(6):1060-1061. doi: 10.1111/bjh.16791. PMID: 32400024.

Gleeson E, Rehill A, Willis Fox O, Ni Ainle F, McDonnell C, Rushe H, McCluskey S, O'Donnell JS, Preston RJ. Apolipoprotein A-I enhances activated protein C cytoprotective activity. **Blood Advances**, 2020 Jun 9;4(11):2404-2408. doi: 10.1182/bloodadvances.2019001316. PMID: 32484855.

McGonagle D, Plein S, O'Donnell JS, Sharif K, Bridgewood C. Increased cardiovascular mortality in African Americans with COVID-19. **Lancet Respiratory Medicine**, 2020 Jul;8(7):649-651. doi: 10.1016/S2213-2600(20)30244-7. PMID: 32473125.

O'Sullivan JM, Ward S, Fogarty H, O'Donnell JS. More on Association between ABO blood groups and risk of SARS-CoV-2 Pneumonia. **British Journal of Haematology**, 2020 Jul;190(1):27-28. doi: 10.1111/bjh.16845. PMID: 32420611.

Moxon CA, Alhamdi Y, Storm J, Toh JM, Ko JK, Murphy G, Lane S, Taylor TE, Seydel KB, Kampondeni S, Potchen M, O'Donnell JS, O'Regan N, Wang G, García-Cardeña G, Molyneux M, Craig A, Abrams ST, Toh CH. Parasite histones mediate leak and coagulopathy in cerebral malaria. **Blood Advances**, 2020 Jul 14;4(13):2851-2864. doi: 10.1182/bloodadvances.2019001258. PMID: 32579667.

Turecek P, Johnsen J, Pipe S, and O'Donnell JS. Biological mechanisms underlying inter-individual variation in FVIII clearance in hemophilia. **Haemophilia**, 2020 Jul;26(4):575-583. doi: 10.1111/hae.14078. PMID: 32596930.

McGonagle D, O'Donnell JS, Bridgewood C. Pulmonary Intravascular Coagulopathy Infectious Origin in the Alveolar Cavity. **Lancet Rheumatology**, 2020 Aug;2(8):e460-e461. doi: 10.1016/S2665-9913(20)30174-0. PMID: 32835255.

O'Donnell JS. Low VWF - Diagnosis, pathogenesis and clinical management.

Blood Advances, 2020 Jul 14;4(13):3191-3199. doi: 10.1182/bloodadvances.2020002038.

PMID: 32663299.

O'Sullivan JM, Mc Gonagle D, Ward SE, Preston RJS and O'Donnell JS. Endothelial cells orchestrate COVID-19 coagulopathy. **Lancet Haematology**, 2020 Aug;7(8):e553-e555. doi: 10.1016/S2352-3026(20)30215-5. PMID: 32619412.

O'Donovan M, Buckley C, Benson J, Walsh D, Roche S, McGowan M, Parkinson L, Byrne P, Rooney G, Bergin C, Bird R, McGroarty F, Fogarty H, Smyth E, Ahmed S, O'Donnell JS, Ryan K, O'Mahony B, Dougall A, O'Connell NM. The Irish experience of telehealth for delivery of Haemophilia Comprehensive Care during the COVID-19 pandemic **Haemophilia**, 2020 Nov;26(6):984-990. doi: 10.1111/hae.14156. PMID: 32997849.

Informatics Directorate

1. Design and implementation of a Real-Time Carbapenem List (RTCL) using Electronic Patient Record (EPR) to enable Post Prescription Review and Feedback (PPRF) as a Carbapenem stewardship strategy for resource-constrained antimicrobial stewardship team

Caitriona Hickey*1, Mary Kelly1, Grainne Courtney1, Kevin Flannery1, Breida Boyle1;2
Abstract 1297 ECCMID 2020

2. St Vincent's University Hospital Medication Safety Seminar [Oral presentation]

A Year of EPR: Experiences of Medication Safety following implementation in St James's Hospital

3. Travels in Telehealth: SCOPe reflections on our journey so far

Medicine for the Elderly (MedEl)

Falls and Syncope Unit

Briggs R, Carey D, Claffey P, McNicholas T, Newman L, Nolan H, Kennelly SP, Kenny RA. The Association between Frontal Lobe Perfusion and Depressive Symptoms in Later Life. *Br J Psychiatry* 2019;214(4):230-236.

Briggs R, McCarroll K, O'Halloran A, Healy M, Kenny RA, Laird E. Vitamin D Deficiency Is Associated With an Increased Likelihood of Incident Depression in Community-Dwelling Older Adults. *J Am Med Dir Assoc* 2019;20(5):517-523.

Gannon J, Claffey P, Laird E, Newman L, Kenny RA, Briggs R. The cross-sectional association between diabetes and orthostatic hypotension in community-dwelling older people. *Diabet Med* 2019;26.

Briggs R, Carey D, Claffey P, McNicholas T, Donoghue O, Kennelly SP, Kenny RA. Do Differences in Spatiotemporal Gait Parameters Predict the Risk of Developing Depression in Later Life? *J Am Geriatr Soc* 2019;67(5):1050-1056.

Age and Ageing, Volume 48, Issue Supplement_3, September 2019, Pages iii17-iii65 <https://doi.org/10.1093/ageing/afz103>

McNicholas T, Claffey P, O'Callaghan S, Briggs R, Newman L, Tobin K, Kenny RA. Atrial Fibrillation, Orthostatic Hypotension and Cerebral Perfusion – Data from The Irish Longitudinal Study on Ageing, *Age and Ageing*, 2019; 48(suppl_3):1-16. (IGS 2019)

Claffey P, Pérez Denia L, Rivasi G, Finucane C, Kenny RA. Near-infrared Spectroscopy in Evaluating Psychogenic Pseudosyncope – A novel diagnostic approach. *QJM: An International Journal of Medicine*, 2019 Oct 9 (pii: hcz257) [doi:10.1093/qjmed/hcz257].

Gannon J, Claffey P, Laird E, Newman L, Kenny RA, Briggs R. The cross-sectional association between diabetes and orthostatic hypotension in community-dwelling older people. *Diabetic Med*. 2019 Nov 26. [doi: 10.1111/dme.14187]

Briggs R, Carey D, Claffey P, McNicholas T, Donoghue O, Kennelly SP, Kenny RA. Do Differences in Spatiotemporal Gait Parameters Predict the Risk of Developing Depression in Later Life? *Journal of the American Geriatrics Society*. 2019 Feb 5.

Briggs R, Carey D, Claffey P, McNicholas T, Newman L, Nolan H, Kennelly SP, Kenny RA. The association between frontal lobe perfusion and depressive symptoms in later life. *The British Journal of Psychiatry*. 2019 Jan 4:1-7.

Claffey P, Pérez Denia L, Rivasi G, Ungar A, Finucane C, Kenny RA. Near-infrared Spectroscopy (NIRS) in the evaluation of Psychogenic Pseudosyncope – Moving towards a simplified diagnostic pathway. *European Heart Journal*, Volume 40, Issue Supplement_1, October 2019, ehz746.0620

Macdonald S H-F, Travers J, Ní Shé É, Bailey J, Romero-Ortuno R, Keyes M, O'Shea D, Cooney MT, Primary care interventions to address physical frailty among community-dwelling adults aged 60 years or older: A meta-analysis, *PLOS ONE*, 2020 Journal Article, 2020 URL

McCarthy K, Ward M, Romero-Ortuno R, Kenny RA, Syncope, fear of falling and quality of life among older adults: findings from The Irish Longitudinal Study on Ageing (TILDA), *Frontiers in Cardiovascular Medicine*, 2020 Journal Article, 2020 URL

Oscanoa TJ, Amado J, Vidal X, Romero-Ortuno R, Angiotensin-Receptor Blockers (ARBs) and risk of Alzheimer's Disease: A meta-analysis, *Current Clinical Pharmacology*, 2020 Journal Article, 2020 URL

Evans NR, Wall J, To B, Wallis SJ, Romero-Ortuno R, Warburton EA, Clinical frailty independently predicts early mortality after ischaemic stroke, *Age and Ageing*, 2020 Journal Article, 2020 URL

Romero-Ortuno R, Kenny RA, McManus R, Collagens and elastin genetic variations and their potential role in aging-related diseases and longevity in humans, *Experimental Gerontology*, 129, 2019, p110781 - Journal Article, 2019 DOI URL

Hartley P, Costello P, Fenner R, Gibbins N, Quinn E, Kuhn I, Keevil VL, Romero-Ortuno R, Change in skeletal muscle associated with unplanned hospital admissions in adult patients: a systematic review and meta-analysis, *PLOS One*, 2019 Journal Article, 2019 URL

Frailty in older persons in, editor(s)O'Hanlon S, Smith M, A Comprehensive Guide to Rehabilitation of the Older Patient 4e, Elsevier, 2019, [Roe L, Williamson W, Romero-Ortuno R] Book Chapter, 2019

Mobility and Frailty in, editor(s)Gu D, Dupre M, Encyclopedia of Gerontology and Population Aging, Springer, Cham, 2019, [Hartley P, Romero-Ortuno R] Book Chapter, 2019 URL

Pickard S, Lloyd L, Vanhoutte B, Danely J, Leon-Salas J, Laceulle H, Cluley V, Romero-Ortuno R, New Horizons in Frailty: the contingent, the existential and the clinical, *Age and Ageing*, 2019 Journal Article, 2019 URL

Romero-Ortuno R, Scarlett S, O'Halloran A, Kenny RA, Is phenotypic prefrailty all the same? A longitudinal investigation of two prefrailty subtypes in The Irish Longitudinal Study of Ageing (TILDA), *Age and Ageing*, 2019 Journal Article, 2019 URL

Rivasi G, Kenny RA, Ungar A, Romero-Ortuno R, Effects of benzodiazepines on orthostatic blood pressure in older people, *European Journal of Internal Medicine*, 2019 Journal Article, 2019 URL

Dent E, Martin FC, Bergman H, Woo J, Romero-Ortuno R, Walston J, The Management of Frailty: Opportunities, Challenges, and Future Directions, *The Lancet*, 2019 Journal Article, 2019 URL

Lyons A, Romero-Ortuno R, Hartley P, Functional Mobility Trajectories of Hospitalized Older Adults Admitted to the Acute Geriatric Wards: A Retrospective Observational Study in an English University Hospital, *Geriatrics and Gerontology International*, 2019 Journal Article, 2019 URL

Rivasi G, Kenny RA, Ungar A, Romero-Ortuno R, Predictors of inci-

- dent fear of falling in community-dwelling older adults. *Journal of the American Medical Directors Association*, 2019 Journal Article, 2019 URL
- Martin F, Romero-Ortuno R, Longitudinal studies of ageing: from insights to impacts: Commentary to accompany themed collection on longitudinal studies, *Age and Ageing*, 2019 Journal Article, 2019 URL
- Duggan E, Romero-Ortuno R, Kenny RA, Admissions for Orthostatic Hypotension: an Analysis of NHS England Hospital Episode Statistics Data, *BMJ Open*, 2019 Journal Article, 2019 URL
- Moore K, Hughes CF, Hoey L, Wad M, Cunningham C, Molloy AM, Strain JJ, McCarroll K, Casey MC, Tracey F, Laird E, O'Kane M, McNulty H. B-vitamins in Relation to Depression in Older Adults Over 60 Years of Age: The Trinity Ulster Department of Agriculture (TUDA) Cohort Study. *J Am Med Dir Assoc*. 2019 May;20(5):551-557. PMID: 30692033
- Porter KM, Ward M, Hughes CF, O'Kane M, Hoey L, McCann A, Molloy AM, Cunningham C, Casey MC, Tracey F, Strain S, McCarroll K, Laird E, Gallagher AM, McNulty H. Hyperglycemia and Metformin Use Are Associated With B Vitamin Deficiency and Cognitive Dysfunction in Older Adults. *J Clin Endocrinol Metab*. 2019 Oct 1;104(10):4837-4847
- Oliveira IM, Hernandez B, Kenny RA, Reilly RB. Automatic Disability Categorisation based on ADLs among Older Adults in a Nationally Representative Population using Data Mining Methods. *Conf Proc IEEE Eng Med Biol Soc*. 2019 Jul; 2019:2466-2469. doi: 10.1109/EMBC.2019.8856780. PubMed PMID: 31946397.
- Hirst RJ, Setti A, Kenny RA, Newell FN. Age-related sensory decline mediates the Sound-Induced Flash Illusion: Evidence for reliability weighting models of multisensory perception. *Sci Rep*. 2019 Dec 18;9(1):19347. doi:10.1038/s41598-019-55901-5. PubMed PMID: 31852954; PubMed Central PMCID PMC6920348.
- O'Connor JD, O'Connell MDL, Nolan H, Newman L, Knight SP, Kenny RA. Impact of Standing Speed on the Peripheral and Central Hemodynamic Response to Orthostasis: Evidence From the Irish Longitudinal Study on Ageing. *Hypertension*. 2020 Feb;75(2):524-531. doi: 0.1161/HYPERTENSIONAHA.119.14040. Epub 2019 Dec 16. PubMed PMID: 31838912.
- Peters R, Yasar S, Anderson CS, Andrews S, Antikainen R, Arima H, Beckett N, Beer JC, Bertens AS, Booth A, van Boxtel M, Brayne C, Brodaty H, Carlson MC, Chalmers J, Corrada M, DeKosky S, Derby C, Dixon RA, Forette F, Ganguli M, van Gool WA, Guaita A, Hever AM, Hogan DB, Jagger C, Katz M, Kawas C, Kehoe PG, Keinanen-Kiukkaanniemi S, Kenny RA, Köhler S, Kunutsor SK, Laukkanen J, Maxwell C, McFall GP, van Middelaar T, Moll van Charante EP, Ng TP, Peters J, Rawtaer I, Richard E, Rockwood K, Rydén L, Sachdev PS, Skoog I, Skoog J, Staessen JA, Stephan BCM, Sebert S, Thijs L, Trompet S, Tully PJ, Tzourio C, Vaccaro R, Vaaramo E, Walsh E, Warwick J, Anstey KJ. Investigation of antihypertensive class, dementia, and cognitive decline: A meta-analysis. *Neurology*. 2020 Jan 21;94(3): e267-e281. doi: 10.1212/WNL.00000000000008732. Epub 2019 Dec 11. PubMed PMID: 31827004.
- Laird E, O'Halloran AM, Fedorowski A, Melander O, Hever A, Sjögren M, Carey D, Kenny RA. Orthostatic hypotension and novel blood pressure associated gene variants in older adults: data from the TILDA Study. *J Gerontol A Biol Sci Med Sci*. 2019 Dec 10. pii: glz286. doi: 10.1093/gerona/glz286. [Epub ahead of print] PubMed PMID: 31821404.
- Newman L, Nolan H, Carey D, Reilly RB, Kenny RA. Age and sex differences in frontal lobe cerebral oxygenation in older adults-Normative values using novel, scalable technology: Findings from the Irish Longitudinal Study on Ageing (TILDA). *Arch Gerontol Geriatr*. 2019 Nov 18;87:103988. doi: 10.1016/j.archger.2019.103988. [Epub ahead of print] PubMed PMID: 31775091.
- Donoghue OA, Briggs R, Moriarty F, Kenny RA. Association of Antidepressants With Recurrent, Injurious and Unexplained Falls is Not Explained by Reduced Gait Speed. *Am J Geriatr Psychiatry*. 2019 Oct 11. pii: S1064-7481(19)30529-9. doi: 10.1016/j.jagp.2019.10.004. [Epub ahead of print] PubMed PMID: 31727515.
- Donoghue OA, Savva GM, Börsch-Supan A, Kenny RA. Reliability, measurement error and minimum detectable change in mobility measures: a cohort study of community-dwelling adults aged 50 years and over in Ireland. *BMJ Open*. 2019 Nov 11;9(11): e030475. doi: 10.1136/bmjopen-2019-030475. PubMed PMID: 31719075; PubMed Central PMCID: PMC6858113.
- Moriarty F, Bennett K, Kenny RA, Fahey T, Cahir C. Comparing Potentially Inappropriate Prescribing Tools and Their Association With Patient Outcomes. *J Am Geriatr Soc*. 2019 Nov 1. doi: 10.1111/jgs.16239. [Epub ahead of print] PubMed PMID: 31675114.
- Hernández B, Setti A, Kenny RA, Newell FN. Individual differences in ageing, cognitive status, and sex on susceptibility to the sound-induced flash illusion: A large-scale study. *Psychol Aging*. 2019 Nov;34(7):978-990. doi:10.1037/pag0000396. Epub 2019 Oct 17. PubMed PMID: 31621358.
- Dyer AH, Murphy C, Lawlor B, Kennelly SP; NILVAD Study Group. Cognitive Outcomes of Long-term Benzodiazepine and Related Drug (BDZR) Use in People Living With Mild to Moderate Alzheimer's Disease: Results From NILVAD. *J Am Med Dir Assoc*. 2020 Feb;21(2):194-200. doi: 10.1016/j.jamda.2019.08.006. Epub 2019 Oct 8. PubMed PMID: 31604674.
- McCrary C, Fiorito G, McLoughlin S, Polidoro S, Cheallaigh CN, Bourke N, Karisola P, Alenius H, Vineis P, Layte R, Kenny RA. Epigenetic Clocks and Allostatic Load Reveal Potential Sex-Specific Drivers of Biological Aging. *J Gerontol A Biol Sci Med Sci*. 2020 Feb 14;75(3):495-503. doi: 10.1093/gerona/glz241. PubMed PMID: 31603985.
- Hernández B, Reilly RB, Kenny RA. Investigation of multimorbidity and prevalent disease combinations in older Irish adults using network analysis and association rules. *Sci Rep*. 2019 Oct 10;9(1):14567. doi: 10.1038/s41598-019-51135-7. PubMed PMID: 31601959; PubMed Central PMCID: PMC6787335.
- Claffey P, Pérez-Denia L, Rivasi G, Finucane C, Kenny RA. Near-Infrared Spectroscopy in Evaluating Psychogenic Pseudosyncope - A novel diagnostic approach. *QJM*. 2019 Oct 9. pii: hcz257. doi: 10.1093/qjmed/hcz257. [Epub ahead of print] PubMed PMID: 31596496.
- 24: Scarlett S, Nolan H, Kenny RA, O'Connell MD. Objective Sleep Duration in Older Adults: Results From The Irish Longitudinal Study on Ageing. *J Am Geriatr Soc*. 2020 Jan;68(1):120-128. doi: 10.1111/jgs.16177. Epub 2019 Oct 3. PubMed PMID: 31579942.
- Holton A, Boland F, Gallagher P, Fahey T, Moriarty F, Kenny RA, Cousins G. Potentially serious alcohol-medication interactions and falls in community-dwelling older adults: a prospective cohort study. *Age Ageing*. 2019 Nov 1;48(6):824-831. doi: 10.1093/ageing/afz112. PubMed PMID: 31579905; PubMed Central PMCID: PMC6814088.

Marron L, Segurado R, Kenny RA, McNicholas T. The association between benzodiazepine use and falls, and the impact of sleep quality on this association: Data from the TILDA study. *QJM*. 2019 Aug 19. pii: hcz217. doi: 10.1093/qjmed/hcz217. [Epub ahead of print] PubMed PMID: 31424520.

O'Halloran AM, Laird EJ, Feeney J, Healy M, Moran R, Beatty S, Nolan JM, Molloy AM, Kenny RA. Circulating Micronutrient Biomarkers Are Associated With 3 Measures of Frailty: Evidence From the Irish Longitudinal Study on Ageing. *J Am Med Dir Assoc*. 2019 Aug 7. pii: S1525-8610(19)30497-9. doi: 10.1016/j.jamda.2019.06.011. [Epub ahead of print] PubMed PMID: 31401047.

Carey D, Nolan H, Kenny RA, Meaney J. Dissociable age and memory relationships with hippocampal subfield volumes in vivo: Data from the Irish Longitudinal Study on Ageing (TILDA). *Sci Rep*. 2019 Jul 29;9(1):10981. doi: 10.1038/s41598-019-46481-5. PubMed PMID: 31358771; PubMed Central PMCID: PMC6662668.

Hase Y, Polvikoski TM, Firbank MJ, Craggs L, Hawthorne E, Platten C, Stevenson W, Deramecourt V, Ballard C, Kenny RA, Perry RH, Ince P, Carare RO, Allan LM, Horsburgh K, Kalaria RN. Small vessel disease pathological changes in neurodegenerative and vascular dementias concomitant with autonomic dysfunction. *Brain Pathol*. 2019 Jul 29. doi: 10.1111/bpa.12769. [Epub ahead of print] PubMed PMID: 31357238.

Orr J, Tobin K, Carey D, Kenny RA, McGarrigle C. Religious Attendance, Religious Importance, and the Pathways to Depressive Symptoms in Men and Women Aged 50 and Over Living in Ireland. *Res Aging*. 2019 Jul 22:164027519860270. doi: 10.1177/0164027519860270. [Epub ahead of print] PubMed PMID: 31331248.

Laird EJ, McNicholas T, O'Halloran AM, Healy M, Molloy AM, Carey D, O'Connor D, McCarroll K, Kenny RA. Vitamin D Status Is Not Associated With Orthostatic Hypotension in Older Adults. *Hypertension*. 2019 Jul 22: HYPERTENSIONAHA11913064. doi: 10.1161/HYPERTENSIONAHA.119.13064. [Epub ahead of print] PubMed PMID: 31327261.

Peeters G, Cooper R, Tooth L, van Schoor NM, Kenny RA. A comprehensive assessment of risk factors for falls in middle-aged adults: co-ordinated analyses of cohort studies in four countries. *Osteoporos Int*. 2019 Jun 15. doi: 10.1007/s00198-019-05034-2. [Epub ahead of print] PubMed PMID: 31201482.

Peeters G, Feeney J, Carey D, Kennelly S, Kenny RA. Fear of falling: A manifestation of executive dysfunction? *Int J Geriatr Psychiatry*. 2019 Apr 29. doi: 10.1002/gps.5133. [Epub ahead of print] PubMed PMID: 31034696.

Fiorito G, McCrory C, Robinson O, Carmeli C, Rosales CO, Zhang Y, Colicino E, Dugué PA, Artaud F, McKay GJ, Jeong A, Mishra PP, Nøst TH, Krogh V, Panico S, Sacerdote C, Tumino R, Palli D, Matullo G, Guarrera S, Gandini M, Bochud M, Dermitzakis E, Muka T, Schwartz J, Vokonas PS, Just A, Hodge AM, Giles GG, Southey MC, Hurme MA, Young I, McKnight AJ, Kunze S, Waldenberger M, Peters A, Schwettmann L, Lund E, Baccarelli A, Milne RL, Kenny RA, Elbaz A, Brenner H, Kee F, Voortman T, Probst-Hensch N, Lehtimäki T, Elliot P, Stringhini S, Vineis P, Polidoro S; BIOS Consortium; Lifepath consortium. Socioeconomic position, lifestyle habits and biomarkers of epigenetic aging: a multi-cohort analysis. *Aging (Albany NY)*. 2019 Apr 14;11(7):2045-2070. doi: 10.18632/aging.101900. PubMed PMID: 31009935; PubMed Central PMCID: PMC6503871.

McHugh Power JE, Hannigan C, Carney S, Feeney J, Kenny RA, Kee

F, Lawlor BA. Lonely SARTs: loneliness and sustained attention in the Irish longitudinal study of aging. *Neuropsychol Dev Cogn B Aging Neuropsychol Cogn*. 2019 Apr 18:1-10. doi:10.1080/13825585.2019.1602705. [Epub ahead of print] PubMed PMID: 30999806.

McHugh Power J, Tang J, Kenny RA, Lawlor BA, Kee F. Mediating the relationship between loneliness and cognitive function: the role of depressive and anxiety symptoms. *Aging Ment Health*. 2019 Apr 7:1-8. doi: 10.1080/13607863.2019.1599816. [Epub ahead of print] PubMed PMID: 30955348.

Power JEM, Sjöberg L, Kee F, Kenny RA, Lawlor B. Comparisons of the discrepancy between loneliness and social isolation across Ireland and Sweden: findings from TILDA and SNAC-K. *Soc Psychiatry Psychiatr Epidemiol*. 2019 Mar 12. doi: 10.1007/s00127-019-01679-w. [Epub ahead of print] PubMed PMID: 30863870.

McCrory C, Fiorito G, Ni Cheallaigh C, Polidoro S, Karisola P, Alenius H, Layte R, Seeman T, Vineis P, Kenny RA. How does socio-economic position (SEP) get biologically embedded? A comparison of allostatic load and the epigenetic clock(s). *Psychoneuroendocrinology*. 2019 Jun; 104:64-73. doi: 10.1016/j.psyneuen.2019.02.018. Epub 2019 Feb 16. PubMed PMID: 30818253.

Seppala LJ, van der Velde N, Masud T, Blain H, Petrovic M, van der Cammen TJ, Szczerbińska K, Hartikainen S, Kenny RA, Ryg J, Eklund P, Topinková E, Mair A, Laflamme L, Thaler H, Bahat G, Gutiérrez-Valencia M, Caballero-Mora MA, Landi F, Emmelot-Vonk MH; EuGMS Task and Finish Group on Fall-Risk-Increasing Drugs, Cherubini A, Baeyens JP, Correa-Pérez A, Gudmundsson A, Marenconi A, O'Mahony D, Parekh N, Pisa FE, Rajkumar C, Wehling M, Ziere G; EuGMS Special Interest Group on Pharmacology. EuGMS Task and Finish group on Fall-Risk-Increasing Drugs (FRIDs): Position on Knowledge Dissemination, Management, and Future Research. *Drugs Aging*. 2019 Apr;36(4):299-307. doi: 10.1007/s40266-018-0622-7. PubMed PMID:30741371; PubMed Central PMCID: PMC6435622.

Ní Bhuachalla B, McGarrigle CA, O'Leary N, Akuffo KO, Peto T, Beatty S, Kenny RA. Orthostatic blood pressure variability is associated with lower visual contrast sensitivity function: Findings from The Irish Longitudinal Study on Aging. *Exp Gerontol*. 2019 May; 119:14-24. doi: 10.1016/j.exger.2019.01.009. Epub 2019 Jan 22. PubMed PMID: 30677467.

Holton A, Boland F, Gallagher P, Fahey T, Kenny RA, Cousins G. Longitudinal prevalence of potentially serious alcohol-medication interactions in community-dwelling older adults: a prospective cohort study. *Eur J Clin Pharmacol*. 2019 Apr;75(4):569-575. doi: 10.1007/s00228-018-02608-7. Epub 2018 Dec 19. PubMed PMID: 30569283.

Carey D, Nolan H, Kenny RA, Meaney J. Cortical covariance networks in ageing: Cross-sectional data from the Irish Longitudinal Study on Ageing (TILDA). *Neuropsychologia*. 2019 Jan;122:51-61. doi: 10.1016/j.neuropsychologia.2018.11.013. Epub 2018 Nov 27. PubMed PMID: 30500662.

Memory Clinic

Loughrey DG, Mihelj E, Lawlor BA. Age-related hearing loss associated with altered response efficiency and variability on a visual sustained attention task. *Neuropsychol Dev Cogn B Aging Neuropsychol Cogn*. 2019 Dec 23:1-25. doi:10.1080/13825585.2019.1704393. [Epub ahead of print] PubMed PMID: 31868123.

Walsh S, Pertl M, Gillespie P, Lawlor B, Brennan S, O'Shea E. Factors influencing the cost of care and admission to long-term care

- For people with dementia in Ireland. *Aging Ment Health*. 2019 Dec 17;1-9. doi:10.1080/13607863.2019.1699901. [Epub ahead of print] PubMed PMID: 31847539.
- Loughrey DG, Pakhomov SVS, Lawlor BA. Altered verbal fluency processes in older adults with age-related hearing loss. *Exp Gerontol*. 2019 Nov 30; 130:110794. doi: 10.1016/j.exger.2019.110794. [Epub ahead of print] PubMed PMID: 31790801.
- Aspell N, Laird E, Healy M, Lawlor B, O'Sullivan M. Vitamin D Deficiency Is Associated With Impaired Muscle Strength And Physical Performance In Community-Dwelling Older Adults: Findings From The English Longitudinal Study Of Ageing. *Clin Interv Aging*. 2019 Oct 15;14:1751-1761. doi: 10.2147/CIA.S222143. eCollection 2019. PubMed PMID: 31686797; PubMed Central PMCID: PMC6800555.
- Power C, Duffy R, Mahon J, McCarroll K, Lawlor BA. Bones of Contention: A Comprehensive Literature Review of Non-SSRI Antidepressant Use and Bone Health. *J Geriatr Psychiatry Neurol*. 2019 Oct 30;891988719882091. doi:10.1177/0891988719882091. [Epub ahead of print] PubMed PMID: 31665962.
- Dyer AH, Murphy C, Segurado R, Lawlor B, Kennelly SP; NILVAD Study Group. Is Ongoing Anticholinergic Burden Associated with Greater Cognitive Decline & Dementia Severity in Mild to Moderate Alzheimer Disease? *J Gerontol A Biol Sci Med Sci*. 2019 Oct 15. pii: glz244. doi: 10.1093/gerona/glz244. [Epub ahead of print] PubMed PMID: 31613323.
- Dyer AH, Murphy C, Lawlor B, Kennelly SP; NILVAD Study Group. Cognitive Outcomes of Long-term Benzodiazepine and Related Drug (BDZR) Use in People Living With Mild to Moderate Alzheimer's Disease: Results From NILVAD. *J Am Med Dir Assoc*. 2019 Oct 8. pii: S1525-8610(19)30615-2. doi: 10.1016/j.jamda.2019.08.006. [Epub ahead of print] PubMed PMID: 31604674.
- Walrath D, Lawlor B. Dementia: towards a new republic of hope. *Lancet*. 2019 Sep 21;394(10203):1002-1003. doi: 10.1016/S0140-6736(19)32099-9. PubMed PMID:31544739.
- de Heus RAA, Olde Rikkert MGM, Tully PJ, Lawlor BA, Claassen JAHR; NILVAD Study Group. Blood Pressure Variability and Progression of Clinical Alzheimer Disease. *Hypertension*. 2019 Nov;74(5):1172-1180. doi: 10.1161/HYPERTENSIONAHA.119.13664. Epub 2019 Sep 23. PubMed PMID: 31542965.
- Loughrey DG, Parra MA, Lawlor BA. Visual short-term memory binding deficit with age-related hearing loss in cognitively normal older adults. *Sci Rep*. 2019 Aug 29;9(1):12600. doi: 10.1038/s41598-019-49023-1. PubMed PMID: 31467387; PubMed Central PMCID: PMC6715732.
- Pertl MM, Sooknarine-Rajpatty A, Brennan S, Robertson IH, Lawlor BA Caregiver Choice and Caregiver Outcomes: A Longitudinal Study of Irish Spousal Dementia Caregivers. *Front Psychol*. 2019 Aug 13; 10:1801. doi:10.3389/fpsyg.2019.01801. eCollection 2019. PubMed PMID: 31456713; PubMed Central PMCID: PMC6700469.
- Glynn K, Coen R, Lawlor BA. Is the Quick Mild Cognitive Impairment Screen (QMCI) more accurate at detecting mild cognitive impairment than existing short cognitive screening tests? A systematic review of the current literature. *Int J Geriatr Psychiatry*. 2019 Dec;34(12):1739-1746. doi: 10.1002/gps.5201. Epub 2019 Aug 22. Review. PubMed PMID: 31418473.
- Kunkle BW, et al Author Correction: Genetic meta-analysis of diagnosed Alzheimer's disease identifies new risk loci and implicates A β , tau, immunity and lipid processing. *Nat Genet*. 2019 Sep;51(9):1423-1424. doi: 10.1038/s41588-019-0495-7. PubMed PMID: 31417202.
- Bracken-Scally M, Keogh B, Daly L, Pittalis C, Kennelly B, Hynes G, Gibb M, Cole N, McMahon CG, Lawlor B, McCarron M, Brady AM. Assessing the impact of dementia inclusive environmental adjustment in the emergency department. *Dementia (London)*. 2019 Jul 17:1471301219862942. doi: 10.1177/1471301219862942. [Epub ahead of print] PubMed PMID: 31315452.
- Devenney KE, Guinan EM, Kelly ÁM, Mota BC, Walsh C, Olde Rikkert M, Schneider S, Lawlor B. Acute high-intensity aerobic exercise affects brain-derived neurotrophic factor in mild cognitive impairment: a randomised controlled study. *BMJ Open Sport Exerc Med*. 2019 Jun 11;5(1): e000499. doi: 10.1136/bmjsem-2018-000499. eCollection 2019. PubMed PMID: 31258928; PubMed Central PMCID: PMC6563898.
- de Jong DLK, de Heus RAA, Rijpma A, Donders R, Olde Rikkert MGM, Günther M, Lawlor BA, van Osch MJP, Claassen JAHR. Effects of Nilvadipine on Cerebral Blood Flow in Patients With Alzheimer Disease. *Hypertension*. 2019 Aug;74(2):413-420. doi:10.1161/HYPERTENSIONAHA.119.12892. Epub 2019 Jun 17. PubMed PMID: 31203725.
- Wilson L, Power C, Owens R, Lawlor B. Psychiatric consultation in the nursing home: reasons for referral and recognition of delirium. *Ir J Psychol Med*. 2019 Jun;36(2):121-127. doi: 10.1017/ipm.2017.71. PubMed PMID: 31187721.
- Kelly ME, Lawlor BA, Coen RF, Robertson IH, Brennan S. Cognitive rehabilitation for early stage Alzheimer's disease: a pilot study with an Irish population. *Ir J Psychol Med*. 2019 Jun;36(2):105-119. doi: 10.1017/ipm.2017.23. PubMed PMID: 31187720.
- Aspell N, Laird E, Healy M, Shannon T, Lawlor B, O'Sullivan M. The Prevalence and Determinants of Vitamin D Status in Community-Dwelling Older Adults: Results from the English Longitudinal Study of Ageing (ELSA). *Nutrients*. 2019 Jun 1;11(6). pii: E1253. doi: 10.3390/nu11061253. PubMed PMID: 31159411; PubMed Central PMCID: PMC6627050.
- de Heus RAA, Donders R, Santoso AMM, Olde Rikkert MGM, Lawlor BA, Claassen JAHR; Nilvad Study Group. Blood Pressure Lowering With Nilvadipine in Patients With Mild-to-Moderate Alzheimer Disease Does Not Increase the Prevalence of Orthostatic Hypotension. *J Am Heart Assoc*. 2019 May 21;8(10): e011938. doi:10.1161/JAHA.119.011938. PubMed PMID: 31088188; PubMed Central PMCID: PMC6585342.
- McHugh Power JE, Hannigan C, Carney S, Feeney J, Kenny RA, Kee F, Lawlor BA. Lonely SARTs: loneliness and sustained attention in the Irish longitudinal study of aging. *Neuropsychol Dev Cogn B Aging Neuropsychol Cogn*. 2019 Apr 18:1-10. doi: 10.1080/13825585.2019.1602705. [Epub ahead of print] PubMed PMID: 30999806.
- McHugh Power J, Tang J, Kenny RA, Lawlor BA, Kee F. Mediating the relationship between loneliness and cognitive function: the role of depressive and anxiety symptoms. *Aging Ment Health*. 2019 Apr 7:1-8. doi:10.1080/13607863.2019.1599816. [Epub ahead of print] PubMed PMID: 30955348.
- Power JEM, Sjöberg L, Kee F, Kenny RA, Lawlor B. Comparisons of the discrepancy between loneliness and social isolation across Ireland and Sweden: findings from TILDA and SNAC-K. *Soc Psy-*

chiatry *Psychiatr Epidemiol.* 2019 Sep;54(9):1079-1088. doi: 10.1007/s00127-019-01679-w. Epub 2019 Mar 12. PubMed PMID: 30863870.

Kunkle BW, et al. Genetic meta-analysis of diagnosed Alzheimer's disease identifies new risk loci and implicates A β , tau, immunity and lipid processing. *Nat Genet.* 2019 Mar;51(3):414-430. doi: 10.1038/s41588-019-0358-2. Epub 2019 Feb 28. Erratum in: *Nat Genet.* 2019Sep;51(9):1423-1424. PubMed PMID: 30820047; PubMed Central PMCID: PMC6463297.

Wolfe H, Mela V, Minogue AM, Miller AM, McGuigan C, Williams L, Lohan D, Lawlor BA, Lynch MA. Monocytes exposed to plasma from patients with Alzheimer's disease undergo metabolic reprogramming. *Neurosci Res.* 2019 Nov; 148:54-60. doi: 10.1016/j.neures.2019.01.001. Epub 2019 Jan 12. PubMed PMID: 30641113.

Doherty CP, O'Keefe E, Keaney J, Lawlor B, Coen RF, Farrell M, Campbell M. Neuropathology as a result of severe traumatic brain injury? *Clin Neuropathol.* 2019 Jan/Feb;38(1):14-22. doi: 10.5414/NP301131. PubMed PMID:30336803.

Bilchick K, Moss T, Welch T, Levy W, Stukenborg G, Lawlor BT, Reigle J, Thomas SC, Brady C, Bergin JD, Kennedy JLW, Abuannadi M, Scully K, Mazimba S. Improving Heart Failure Readmission Costs and Outcomes With a Hospital-to-Home Readmission Intervention Program. *Am J Med Qual.* 2019 Mar/Apr;34(2):127-135. doi:10.1177/1062860618788436. Epub 2018 Jul 19. PubMed PMID: 30024279.

Bowe AK, Owens M, Codd MB, Lawlor BA, Glynn RW. Physical activity and mental health in an Irish population. *Ir J Med Sci.* 2019 May;188(2):625-631. doi:10.1007/s11845-018-1863-5. Epub 2018 Jul 17. PubMed PMID: 30019096.

Doherty, C.P., O'Keefe, E., Keaney, J., Lawlor, B.A., Coen, R.F., Farrell, M., Campbell, M. (2019) Neuropathology as a result of severe traumatic brain injury? *Clinical Neuropathology*, 38(1), 14-22 doi: 10.5414/NP301131

Lombard Vance, R., Coen, R.F., O'Keefe, F., Desmond, D., Ryall, N., Gallagher, P. (2019) Comprehensive Neuropsychological Assessment of cognitive functioning in adults with lower limb amputations in rehabilitation. *Archives of Physical Medicine and Rehabilitation*, 100(2), 278-288.e2 doi: 10.1016/j.apmr.2018.07.436

Glynn, K., Coen R.F., Lawlor, B.A. (2019) Is the Quick Mild Cognitive Impairment Screen (QMCI) more accurate at detecting mild cognitive impairment than existing short cognitive screening tests? A systematic review of the current literature. *International Journal of Geriatric Psychiatry*, 1-8. <https://doi.org/10.1002/gps.5201> (early view)

Devenney K.E., Guinan, E.M., Kelly, Á.M., Mota, B.C., Walsh, C., Rikkert, M.O., Schneider, S., Lawlor, B.A., the NeuroExercise study group incl R.F. Coen. (2019) Acute high-intensity aerobic exercise affects brain-derived neurotrophic factor in mild cognitive impairment: a randomised controlled study, *BMJ Open Sport & Exercise Medicine*, 5, 1-8. e000499. doi:10.1136/bmjsem-2018-000499

Fitzgerald, M.C.C., Carton, S., O'Keefe, F., Coen, R.F., Kelly, S., Dockree, P. (2019) Rehabilitation of Emergent Awareness of Errors Post Traumatic Brain Injury: A Pilot Intervention. *Neuropsychological Rehabilitation*, 29(6); 821-843. DOI: 10.1080/09602011.2017.1336102

Laird, E., Hoey, L., McCarroll, K., Hughes, C.F., Ward, M., Coen, R.F., Strain, J.J., Casey, M.C., Cunningham, C, McNulty, H, Molloy, A.M. Impaired cognition is associated with low vitamin B-12 status but

is not exacerbated by combined high folate status in older adults living in a voluntary food-fortification setting. (Submitted to *American Journal of Clinical Nutrition*)

January – December 2019: conference presentations with published abstract

Presented (P.O'G., poster) at the International Liver Congress, Vienna, April 2019: O'Gorman, P., Ferguson, D., Strahan, O., Monaghan, A., Kennedy, M., Bergin, C., McKiernan, S., Coen, R.F., Doherty, C.P., Forde, C., Gormley, J., Norris, S. (2019) Improvement in cognitive impairment following 12 weeks or aerobic exercise in individuals with non-cirrhotic chronic hepatitis C. *Journal of Hepatology*, 70(1, Suppl), e501-e502. DOI 10.1016/S0168-8278(19)30990-9

Bone Health

Vitamin D Status is Not Associated With Orthostatic Hypotension in Older Adults. Laird EJ, McNicholas T, O'Halloran AM, Healy M, Molloy AM, Carey D, O'Connor D, McCarroll K, Kenny RA. *Hypertension.* 2019 Sep;74(3):639-644.

Bone of Contentment: A Comprehensive Literature Review of Non-SSRI Antidepressant Use and Bone Health. Power C, Duffy R, Mahon J, McCarroll K, Lawlor BA. *J Geriatr Psychiatry Neurol.* 2019

Vitamin D Deficiency Is Associated With Increased Likelihood of Incident Depression In Community Dwelling Older Adults Briggs R, McCarroll K, O'Halloran A, Healy M, Kenny RA, Laird E. *J Am Med Dir Assoc.* 2019 May;20(5):517-523.

Hyperglycemia and Metformin Use Are Associated With B Vitamin Deficiency and Cognitive Dysfunction in Older Adults Porter KM, Ward M, Hughes CF, O'Kane M, Hoey L, McCann A, Molloy AM, Cunningham C, Casey MC, Tracey F, Strain S, McCarroll K, Laird E, Gallagher AM, McNulty H. *J Clin Endocrinol Metab.* 2019 Oct 1;104(10):4837-4847

B-vitamins in Relation to Depression in Older Adults Over 60 Years of Age: The Trinity Ulster Department of Agriculture (TUDA) Cohort Study. Briggs R, McCarroll K, O'Halloran A, Healy M, Kenny RA, Laird E. *J Am Med Dir Assoc.* 2019 May;20(5):517-523.

Stroke Service

Concannon E, Fitzgerald L, Canniff E, Birrane J, Harbison J, Shelley O. Neuroimaging provides relevant clinical information in patients with burn injuries. *Burns.* 2019 Nov 28. pii: S0305-4179(19)30423-1

Schnabel RB, Haeusler KG, Healey JS, Freedman B, Boriani G, Brachmann J, Brandes A, Bustamante A, Casadei B, Crijs HJGM, Doehner W, Engström G, Fauchier L, Friberg L, Gladstone DJ, Glotzer TV, Goto S, Hankey GJ, Harbison JA, Hobbs FDR, Johnson LSB, Kamel H, Kirchhof P, Korompoki E, Krieger DW, Lip GYH, Løchen ML, Mairesse GH, Montaner J, Neubeck L, Ntaios G, Piccini JP, Potpara TS, Quinn TJ, Reiffel JA, Ribeiro ALP, Rienstra M, Rosenqvist M, Sakis T, Sinner MF, Svendsen JH, Van Gelder IC, Wachter R, Wijeratne T, Yan B. Searching for Atrial Fibrillation Poststroke: A White Paper of the AF-SCREEN International Collaboration. *Circulation.* 2019 Nov 26;140(22):1834-1850.

Murphy SJ, Lim ST, Kinsella JA, Tierney S, Egan B, Feeley TM, Doolley C, Kelly J, Murphy SM, Walsh RA, Collins R, Coughlan T, O'Neill D, Harbison JA, Madhavan P, O'Neill SM, Colgan MP, Meaney JF, Hamilton G, McCabe DJ. Simultaneous assessment of plaque morphology, cerebral micro-embolic signal status and platelet biomarkers in patients with recently symptomatic and asymptomatic carotid stenosis. *J Cereb Blood Flow Metab.* 2019 Nov

11:271678X19884427.

Murphy SJX, Lim ST, Kinsella JA, Tierney S, Egan B, Feeley TM, Murphy SM, Walsh RA, Collins DR, Coughlan T, O'Neill D, Harbison JA, Madhavan P, O'Neill SM, Colgan MP, Cox D, Moran N, Hamilton G, Meaney JF, McCabe DJH. Relationship between 'on-treatment platelet reactivity', shear stress, and micro-embolic signals in asymptomatic and symptomatic carotid stenosis. *J Neurol*. 2019 Oct 12. Doi

Lowres N, Olivier J, Chao TF, Chen SA, Chen Y, Diederichsen A, Fitzmaurice DA, Gomez-Doblas JJ, Harbison J, Healey JS, Hobbs FDR, Kaasenbrood F, Keen W, Lee VW, Lindholt JS, Lip GYH, Mairesse GH, Mant J, Martin JW, Martín-Rioboó E, McManus DD, Muñoz J, Münzel T, Nakamya J, Neubeck L, Orchard JJ, Pérula de Torres LÁ, Proietti M, Quinn FR, Roalfe AK, Sandhu RK, Schnabel RB, Smyth B, Soni A, Tieleman R, Wang J, Wild PS, Yan BP, Freedman B. Estimated stroke risk, yield, and number needed to screen for atrial fibrillation detected through single time screening: a multicountry patient-level meta-analysis of 141,220 screened individuals. *PLoS Med*. 2019 Sep 25;16(9)

Kelly PJ, Camps-Renom P, Giannotti N, Martí-Fàbregas J, Murphy S, McNulty J, Barry M, Barry P, Calvet D, Coutts SB, Cronin S, Delgado-Mederos R, Dolan E, Fernández-León A, Foley S, Harbison J, Horgan G, Kavanagh E, Marnane M, McDonnell C, O'Donohoe M, Sharma V, Walsh C, Williams D, O'Connell M. Carotid Plaque Inflammation Imaged by 18F-Fluorodeoxyglucose Positron Emission Tomography and Risk of Early Recurrent Stroke. *Stroke*. 2019 Jul;50(7):1766-1773.

Murphy SJX, Lim ST, Kinsella JA, Tierney S, Egan B, Feeley TM, Murphy SM, Walsh RA, Collins DR, Coughlan T, O'Neill D, Harbison JA, Madhavan P, O'Neill SM, Colgan MP, Cox D, Moran N, Hamilton G, McCabe DJH. Increased Leucocyte-Platelet Complex Formation in Recently Symptomatic versus Asymptomatic Carotid Stenosis Patients and in Micro-emboli Negative Subgroups. *Thromb Haemost*. 2019 May;119(5):821-833.

Walsh ME, Galvin R, Williams DJP, Harbison JA, Murphy S, Collins R, McCabe DJH, Crowe M, Horgan NF. The experience of recurrent fallers in the first year after stroke. *Disabil Rehabil*. 2019 Jan;41(2):142-149

Coveney S, Murphy s, Belton O, Cassidy T, Crowe M, Dolan E, de Gaetano M, Fitzgibbon M, Harbison J, Horgan G, Marnane M, McCabe J, Merwick A, Noone I, Williams D, Kelly P, Inflammatory cytokines, CRP, and risk of 1-year vascular events and death after stroke and transient ischemic attack. In Press: *Stroke*

Loughrey DG, Mihelj E, Lawlor BA. Age-related hearing loss associated with altered response efficiency and variability on a visual sustained attention task. *Neuropsychol Dev Cogn B Aging Neuropsychol Cogn*. 2019 Dec 23:1-25. doi:10.1080/13825585.2019.1704393. [Epub ahead of print] PubMed PMID: 31868123.

Walsh S, Pertl M, Gillespie P, Lawlor B, Brennan S, O'Shea E. Factors influencing the cost of care and admission to long-term care for people with dementia in Ireland. *Aging Ment Health*. 2019 Dec 17:1-9. doi:10.1080/13607863.2019.1699901. [Epub ahead of print] PubMed PMID: 31847539.

Loughrey DG, Pakhomov SVS, Lawlor BA. Altered verbal fluency processes in older adults with age-related hearing loss. *Exp Gerontol*. 2019 Nov 30; 130:110794. doi: 10.1016/j.exger.2019.110794. [Epub ahead of print] PubMed PMID: 31790801.

Aspell N, Laird E, Healy M, Lawlor B, O'Sullivan M. Vitamin D De-

ciency Is Associated With Impaired Muscle Strength And Physical Performance In Community-Dwelling Older Adults: Findings From The English Longitudinal Study Of Ageing. *Clin Interv Aging*. 2019 Oct 15;14:1751-1761. doi: 10.2147/CIA.S222143.eCollection 2019. PubMed PMID: 31686797; PubMed Central PMCID: PMC6800555.

Power C, Duffy R, Mahon J, McCarroll K, Lawlor BA. Bones of Contention: A Comprehensive Literature Review of Non-SSRI Antidepressant Use and Bone Health. *J Geriatr Psychiatry Neurol*. 2019 Oct 30:891988719882091. doi:10.1177/0891988719882091. [Epub ahead of print] PubMed PMID: 31665962.

Dyer AH, Murphy C, Segurado R, Lawlor B, Kennelly SP; NILVAD Study Group. Is Ongoing Anticholinergic Burden Associated with Greater Cognitive Decline & Dementia Severity in Mild to Moderate Alzheimer Disease? *J Gerontol A Biol Sci Med Sci*. 2019 Oct 15. pii: glz244. doi: 10.1093/gerona/glz244. [Epub ahead of print] PubMed PMID: 31613323.

Dyer AH, Murphy C, Lawlor B, Kennelly SP; NILVAD Study Group. Cognitive Outcomes of Long-term Benzodiazepine and Related Drug (BDZR) Use in People Living With Mild to Moderate Alzheimer's Disease: Results From NILVAD. *J Am Med Dir Assoc*. 2019 Oct 8. pii: S1525-8610(19)30615-2. doi: 10.1016/j.jamda.2019.08.006. [Epub ahead of print] PubMed PMID: 31604674.

Walrath D, Lawlor B. Dementia: towards a new republic of hope. *Lancet*. 2019 Sep 1;394(10203):1002-1003. doi: 10.1016/S0140-6736(19)32099-9. PubMed PMID:31544739.

de Heus RAA, Olde Rikkert MGM, Tully PJ, Lawlor BA, Claassen JAHR; NILVAD Study Group. Blood Pressure Variability and Progression of Clinical Alzheimer Disease. *Hypertension*. 2019 ov;74(5):1172-1180. doi: 10.1161/HYPERTENSIONAHA.119.13664. Epub 2019 Sep 23. PubMed PMID: 31542965.

Loughrey DG, Parra MA, Lawlor BA. Visual short-term memory binding deficit with age-related hearing loss in cognitively normal older adults. *Sci Rep*. 2019 Aug 29;9(1):12600. doi: 10.1038/s41598-019-49023-1. PubMed PMID: 31467387; PubMed Central PMCID: PMC6715732.

Pertl MM, Sooknarine-Rajpatty A, Brennan S, Robertson IH, Lawlor BA. Caregiver Choice and Caregiver Outcomes: A Longitudinal Study of Irish Spousal Dementia Caregivers. *Front Psychol*. 2019 Aug 13;10:1801. doi:10.3389/fpsyg.2019.01801. eCollection 2019. PubMed PMID: 31456713; PubMed Central PMCID: PMC6700469.

Glynn K, Coen R, Lawlor BA. Is the Quick Mild Cognitive Impairment Screen (QMCI) more accurate at detecting mild cognitive impairment than existing short cognitive screening tests? A systematic review of the current literature. *Int J Geriatr Psychiatry*. 2019 Dec;34(12):1739-1746. doi: 10.1002/gps.5201. Epub 2019 Aug 22. Review. PubMed PMID: 31418473.

Kunkle BW, Grenier-Boley B, Sims R, Bis JC, Damotte V, Naj AC, Bolland A, Vronskaya M, et al Author Correction: Genetic meta-analysis of diagnosed Alzheimer's disease identifies new risk loci and implicates Aβ, tau, immunity and lipid processing. *Nat Genet*. 2019 Sep;51(9):1423-1424. doi: 10.1038/s41588-019-0495-7. PubMed PMID: 31417202.

Bracken-Scally M, Keogh B, Daly L, Pittalis C, Kennelly B, Hynes G, Gibb M, Cole N, McMahan CG, Lawlor B, McCarron M, Brady AM. Assessing the impact of dementia inclusive environmental adjust-

ment in the emergency department. *Dementia* (London). 2019 Jul 17;1471301219862942. doi: 10.1177/1471301219862942. [Epub ahead of print] PubMed PMID: 31315452.

Devenney KE, Guinan EM, Kelly ÁM, Mota BC, Walsh C, Olde Rikkert M, Schneider S, Lawlor B. Acute high-intensity aerobic exercise affects brain-derived neurotrophic factor in mild cognitive impairment: a randomised controlled study. *BMJ Open Sport Exerc Med*. 2019 Jun 11;5(1):e000499. doi:10.1136/bmjsem-2018-000499. eCollection 2019. PubMed PMID: 31258928; PubMed Central PMCID: PMC6563898.

de Jong DLK, de Heus RAA, Rijpma A, Donders R, Olde Rikkert MGM, Günther M, Lawlor BA, van Osch MJP, Claassen JAHR. Effects of Nilvadipine on Cerebral Blood Flow in Patients With Alzheimer Disease. *Hypertension*. 2019 Aug;74(2):413-420. doi: 10.1161/HYPERTENSIONAHA.119.12892. Epub 2019 Jun 17. PubMed PMID: 31203725.

Wilson L, Power C, Owens R, Lawlor B. Psychiatric consultation in the nursing home: reasons for referral and recognition of delirium. *Ir J Psychol Med*. 2019 Jun;36(2):121-127. doi: 0.1017/ipm.2017.71. PubMed PMID: 31187721.

Kelly ME, Lawlor BA, Coen RF, Robertson IH, Brennan S. Cognitive rehabilitation for early stage Alzheimer's disease: a pilot study with an Irish population. *Ir J Psychol Med*. 2019 Jun;36(2):105-119. doi: 10.1017/ipm.2017.23. PubMed PMID: 31187720.

Aspell N, Laird E, Healy M, Shannon T, Lawlor B, O'Sullivan M. The Prevalence and Determinants of Vitamin D Status in Community-Dwelling Older Adults: Results from the English Longitudinal Study of Ageing (ELSA). *Nutrients*. 2019 Jun 1;11(6). pii: E1253. doi: 10.3390/nu11061253. PubMed PMID: 31159411; PubMed Central PMCID: PMC6627050.

de Heus RAA, Donders R, Santoso AMM, Olde Rikkert MGM, Lawlor BA, Claassen JAHR; Nilvad Study Group. Blood Pressure Lowering With Nilvadipine in Patients With Mild-to-Moderate Alzheimer Disease Does Not Increase the Prevalence of Orthostatic Hypotension. *J Am Heart Assoc*. 2019 May 21;8(10):e011938. doi:10.1161/JAHA.119.011938. PubMed PMID: 31088188; PubMed Central PMCID: PMC6585342.

McHugh Power JE, Hannigan C, Carney S, Feeney J, Kenny RA, Kee F, Lawlor BA. Lonely SARTs: loneliness and sustained attention in the Irish longitudinal study of aging. *Neuropsychol Dev Cogn B Aging Neuropsychol Cogn*. 2019 Apr 18:1-10. doi:10.1080/13825585.2019.1602705. [Epub ahead of print] PubMed PMID: 30999806.

McHugh Power J, Tang J, Kenny RA, Lawlor BA, Kee F. Mediating the relationship between loneliness and cognitive function: the role of depressive and anxiety symptoms. *Aging Ment Health*. 2019 Apr 7:1-8. doi:10.1080/13607863.2019.1599816. [Epub ahead of print] PubMed PMID: 30955348.

Power JEM, Sjöberg L, Kee F, Kenny RA, Lawlor B. Comparisons of the discrepancy between loneliness and social isolation across Ireland and Sweden: findings from TILDA and SNAC-K. *Soc Psychiatry Psychiatr Epidemiol*. 2019 Sep;54(9):1079-1088. doi: 10.1007/s00127-019-01679-w. Epub 2019 Mar 12. PubMed PMID: 30863870.

Kunkle BW, Grenier-Boley B, Sims R, Bis JC, Damotte V, Naj AC, et al Alzheimer Disease Genetics Consortium (ADGC); European Alzheimer's Disease Initiative (EADI), Cohorts for Heart and Aging Research in Genomic Epidemiology Consortium (CHARGE), Genetic and Environmental Risk in AD/Defining Genetic, Polygenic and

Environmental Risk for Alzheimer's

Disease Consortium (GERAD/PERADES), Genetic meta-analysis of diagnosed Alzheimer's disease identifies new risk loci and implicates A β , tau, immunity and lipid processing. *Nat Genet*. 2019 Mar;51(3):414-430. doi: 10.1038/s41588-019-0358-2. Epub 2019 Feb 28. Erratum in: *Nat Genet*. 2019 Sep;51(9):1423-1424. PubMed PMID: 30820047; PubMed Central PMCID: PMC6463297.

Wolfe H, Mela V, Minogue AM, Miller AM, McGuigan C, Williams L, Lohan D, Lawlor BA, Lynch MA. Monocytes exposed to plasma from patients with Alzheimer's disease undergo metabolic reprogramming. *Neurosci Res*. 2019 Nov; 148:54-60. doi: 10.1016/j.neures.2019.01.001. Epub 2019 Jan 12. PubMed PMID: 30641113.

Doherty CP, O'Keefe E, Keaney J, Lawlor B, Coen RF, Farrell M, Campbell M. Neuropathology as a result of severe traumatic brain injury? *Clin Neuropathol*. 2019 Jan/Feb;38(1):14-22. doi: 10.5414/NP301131. PubMed PMID: 30336803.

Bilchick K, Moss T, Welch T, Levy W, Stukenborg G, Lawlor BT, Reigle J, Thomas SC, Brady C, Bergin JD, Kennedy JLW, Abuannadi M, Scully K, Mazimba S. Improving Heart Failure Readmission Costs and Outcomes With a Hospital-to-Home Readmission Intervention Program. *Am J Med Qual*. 2019 Mar/Apr;34(2):127-135. doi:10.1177/1062860618788436. Epub 2018 Jul 19. PubMed PMID: 30024279.

Bowe AK, Owens M, Codd MB, Lawlor BA, Glynn RW. Physical activity and mental health in an Irish population. *Ir J Med Sci*. 2019 May;188(2):625-631. doi:10.1007/s11845-018-1863-5. Epub 2018 Jul 17. PubMed PMID: 30019096.

LAMP:

Claffey P, McNicholas T, Briggs R, et al. The Impact of Acute Specialised Geriatric Take in a Large Teaching Hospital over Three Years. *Age and Ageing*. 2018;47(suppl_5).

Coen R, Hannigan O, Glynn K, et al. Free and Cued Selective Reminding (FCSRT) and Delayed Word Recall (DWR) Concordance for Hippocampal Signature Amnesic Mild Cognitive Impairment (MCI). *Age and Ageing*. 2018;47(suppl_5): v13-v60.

Collins P, McDonough A, Robinson D. Fasting Before Cardiac Procedures Under Conscious Sedation Hunger Without Cause? Paper presented at: IRISH JOURNAL OF MEDICAL SCIENCE 2018.

Hannigan O, McNicholas T, McCarroll K, Cunningham C, Robinson D. 208Life Expectancy and Place of Death of Patients Discharged from Hospital to Long Term Care. *Age and Ageing*. 2018;47(suppl_5).

McMahon CG, Foley MP, Robinson D, et al. High prevalence of frequent attendance in the over 65s. *European Journal of Emergency Medicine*. 2018;25(1):53-57. Prosopagnosia as a Type of Conversion Disorder.

Power C, Hannigan O, Coen R, Bruce I, Gibb M, McCarthy M, Robinson D, Lawlor BA.

Case Rep Psychiatry. 2018 Feb 13; 2018:5972954. PMID: 29666739 Medical Physics and Bioengineering

SP Juraschek, A Taylor, G W Evans, R Townsend, E Miller, T Planete, W Cushman, T Gure, W Haley, I Moinuddin, J Nord, S Oparil, C Pedley, C Roumie, J Whittle, A Wiggers, C Finucane, RA Kenny, LJ Appel, JT Wright. Orthostatic Hypotension, Cardiovascular Outcomes, and Adverse Events: Results from SPRINT, Hypertension, December 2019 (In press).

Claffey P, Pérez-Denia L, Rivasi G, Finucane C, Kenny RA. Near-In-

Infrared Spectroscopy in Evaluating Psychogenic Pseudosyncope - A novel diagnostic approach. *QJM*. 2019 Oct 9. pii: hcz257. doi: 10.1093/qjmed/hcz257. PMID: 31596496

Finucane C, van Wijnen VK, Fan CW, Soraghan C, Byrne L, Westerhof BE, Freeman R, Fedorowski A, Harms MPM, Wieling W, Kenny R. A practical guide to active stand testing and analysis using continuous beat-to-beat non-invasive blood pressure monitoring. *Clin Auton Res*. 2019 Aug;29(4):427-441. doi: 10.1007/s10286-019-00606-y. Epub 2019 May 10. Review. PMID: 31076939

L Perez-Denia, P Claffey, RA Kenny, C Finucane 'Is cerebral auto-regulation altered in ageing? A review'. *BGS, Leicester*, 6-8 November 2019.

P Claffey, L Perez-Denia, G Rivasi, A Ungar, C Finucane, RA Kenny P5678 Near-infrared spectroscopy (NIRS) in the evaluation of psychogenic pseudosyncope-Moving towards a simplified diagnostic pathway. *European Heart Journal* 40 (Supplement_1), ehz746. 0620

C Finucane, R Kenny. Time to redefine initial orthostatic hypotension in older adults? *Age and Ageing*, Volume 48, Issue Supplement_1, February 2019, Pages i24-i25, <https://doi.org/10.1093/ageing/afy200.01>

D Moloney, L Perez Denia, R Kenny. Todd's Paresis following Vasovagal Syncope provoked by Tilt Table Testing. *BMJ Case Reports*, 2019 (In review).

S. Naimimohasses, L Perez Denia, C. Rice, C. Finucane, S. Norris, R. A. Kenny. A pilot study evaluating cerebral perfusion oxygenation and orthostatic blood pressure regulation in patients with advanced, non-cirrhotic Non-Alcoholic Fatty Liver Disease (NAFLD), the European Association for the Study of the Liver Annual Meeting, London, 2019.

TILDA

Briggs, R, Carey, D, Claffey, P, McNicholas, T, Newman, L, Nolan, H, Kennelly, SP, Kenny, RA. The association between frontal lobe perfusion and depressive symptoms in later life. *The British Journal of Psychiatry: The Journal of Mental Science*. 214(4):230-23.

Briggs, R, Carey, D, Claffey, P, McNicholas, T, Donoghue, OA, Kennelly, SP, Kenny, RA. Do Differences in Spatiotemporal Gait Parameters Predict the Risk of Developing Depression in Later Life? *Journal of the American Geriatrics Society* 67(5):1050-1056.

Briggs, R, McCarroll, K, O'Halloran, A, Healy, M, Kenny, RA, Laird, E. Vitamin D Deficiency Is Associated With an Increased Likelihood of Incident Depression in Community-Dwelling Older Adults. *JAMA*. 20(5):517-523.

Byrne, P, Cullinan, J, Gillespie, P, Perera, R and Smith, SM. Statins for primary prevention of cardiovascular disease: modelling guidelines and patient preferences based on an Irish cohort. *British Journal of Geriatric Practice*. 69(683):e373-e380.

Carey, D, Nolan, H, Kenny, RA, Meaney, J. Cortical covariance networks in ageing: cross-sectional data from the Irish Longitudinal Study on Ageing (TILDA). *Neuropsychologia*. 122:51-61.

Carey, D, Nolan, H, Kenny, RA, Meaney, J. Dissociable age and memory relationships with hippocampal subfield volumes in vivo: Data from the Irish Longitudinal Study on Ageing (TILDA). *Scientific Reports*. 9: 10981.

Cattalani L, Belvederi Murri M, Chesani F, Chiari L, Bandinelli S, Palumbo. Risk Prediction Model for Late Life Depression: Development and Validation on Three Large European Datasets. *IEEE Journal of Biomedical and Health Informatics*. 23(5):2196-2204

Connolly, S, Whyte, R. Uptake of cancer screening services among middle and older ages in Ireland: the role of healthcare eligibility. *Public Health*. 173:42-4.

Corish CA, Bardon LA. Malnutrition in older adults: screening and determinants. *The Proceedings of the Nutrition Society*. 78(3):372-379

Cruise, SM, Hughes, J, Bennett, K, Kouvonen, A, Kee, F. The Impact of Risk Factors for Coronary Heart Disease on Related Disability in Older Irish Adults. *J Aging Health*. 31(1):165-184.

Curran E, Rosato M, Cooper J, McGarrigle CA, Leavey G. Symptom profiles of late-life anxiety and depression: The influence of migration, religion and loneliness. *Depression and Anxiety*. 36(9):824-833

Domènech-Abella, J, Mundó, J, Maria Haro, J, Rubio-Valeraeaf, M. Anxiety, depression, loneliness and social network in the elderly: Longitudinal associations from The Irish Longitudinal Study on Ageing (TILDA). *Journal of Affective Disorders*. 246:82-88.

Donati, L, Fongo, D, Cattalani, L, Chesani, F. Prediction of Decline in Activities of Daily Living Through Deep Artificial Neural Networks and Domain Adaptation. In: Alviano M., Greco G., Scarcello F. (eds) *AI*IA 2019 – Advances in Artificial Intelligence. Lecture Notes in Computer Science*, vol 11946, pp 376-391. Available at: https://link.springer.com/chapter/10.1007/978-3-030-35166-3_27.

Donoghue, OA, Savva, GM, Börsch-Supan, A, Kenny RA. Reliability, measurement error and minimum detectable change in mobility measures: a cohort study of community-dwelling adults aged 50 years and over in Ireland. *BMJ Open*. 9(11):e030475.

Donoghue OA, McGarrigle CA, Kenny RA. The Irish Longitudinal Study on Ageing. In: Gu D., Dupre M. (eds) *Encyclopedia of Gerontology and Population Aging*. Springer, Cham. ISBN 978-3-319-69892-2. Available at: https://link.springer.com/referenceworkentry/10.1007/978-3-319-69892-2_340-1.

Donoghue OA, McGarrigle CA, Kenny RA. Who's in the driver's seat? Impact on social participation and psychosocial wellbeing in adults aged 50 and over. *Transportation Research Part F: Traffic Psychology and Behaviour*. 64:522-531.

Fiorito, G, McCrory, C, Robinson, O, Carmeli, C, Rosales,, CO, Zhang, Y, Colicino, E, Dugué, PA, Artaud, F, McKay, GJ, Jeong, A, Mishra, PP, Nøst, TH, Krogh, V, Panico, S, Sacerdote, C, Tumino, R, Palli, D, Matullo, G, Guarrera, S, Gandini, M, Bochud, M, Dermizakis, E, Muka, T, Schwartz, J, Vokonas, PS, Just, A, Hodge, AM, Giles, GG, Southey, MC, Hurme, MA, Young, I, McKnight, AJ, Kunze, S, Waldenberger, M, Peters, A, Schwettmann, L, Lund, E, Baccarelli, A, Milne, RL, Kenny, RA, Elbaz, A, Brenner, H, Kee, F, Voortman, T, Probst-Hensch, N, Lehtimäki, T, Elliot, P, Stringhini, S, Vineis, P, Polidoro, S; BIOS Consortium;

Lifepath consortium. Socioeconomic position, lifestyle habits and biomarkers of epigenetic aging: a multi-cohort analysis. *Ageing*. 11(7):2045-2070.

Gordon, BR, McDowell, CP, Lyons, M, Herring, MP. Associations between grip strength and generalized anxiety disorder in older adults: Results from the Irish longitudinal study on ageing. *Journal of affective disorders*. 255:136-141.

Gormley, M, O'Neill, D. Driving as a Travel Option for Older Adults: Findings From the Irish Longitudinal Study on Aging. *Frontiers in Psychology*. 64:522-531.

Holton, A, Boland, F, Gallagher, P, Fahey, T, Kenny, R, Cousins, G. Life Course Transitions and Changes in Alcohol Consumption Among Older Irish Adults: Results From The Irish Longitudinal Study on Ageing (TILDA). *Journal of aging and health*. 31(9):1568-1588.

Hernández, B, Reilly, RB, Kenny, RA. Investigation of multimorbidity and prevalent disease combinations in older Irish adults

- using network analysis and association rules. *Scientific Reports*. 9, 14567.
- Hernández, B, Setti, A, Kenny, RA, Newell, FN. Individual differences in ageing, cognitive status, and sex on susceptibility to the sound-induced flash illusion: A large-scale study. *Psychology and Aging*. 34(7):978-990.
- Hirst, RJ, Setti, A, Kenny, RA, Newell, FN. Age-related sensory decline mediates the Sound-Induced Flash Illusion: Evidence for reliability weighting models of multisensory perception. *Scientific Reports*. 9, 19347.
- Holton, A, Boland, F, Gallagher, P, Fahey, T, Kenny, R, Cousins, G. Longitudinal prevalence of potentially serious alcohol-medication interactions in community-dwelling older adults: a prospective cohort study. *European Journal of Clinical Pharmacology*. 75(4):569-575.
- Huang, C, Sun, S, Tian, X, Wang, T, Wang, T, Duan, H, Wu, Y. Age modify the associations of obesity, physical activity, vision and grip strength with functional mobility in Irish aged 50 and older. *Archives of gerontology and geriatrics*. 84:103895.
- Laird, EJ, McNicholas, T, O'Halloran, AM, Healy, M, Molloy, AM, Carey, D, O'Connor, D, McCarroll, K, Kenny, RA. Vitamin D Status Is Not Associated With Orthostatic Hypotension in Older Adults. *Hypertension*. 74(3):639-644.
- Layte, R, McCrory, C, Ni Cheallaigh, C, Bourke, N, Kivimaki, M, Ribeiro, Al, Stringhini, S, Vineis, P. A Comparative Analysis of the Status Anxiety Hypothesis of Socio-economic Inequalities in Health Based on 18,349 individuals in Four Countries and Five Cohort Studies. *Scientific Reports*. 9(796).
- Lindsay, L, Coleman, SA, Kerr, D, Taylor, BJ, Moorhead, A. Classification of Health Risk Factors to Predict the Risk of Falling in Older Adults. *International Journal of Medical and Health Sciences*. 13(6):306-309.
- May, P, Johnston, BM, Normand, C, Higginson, IJ, Kenny, RA, Ryan, K. Population-based palliative care planning in Ireland: how many people will live and die with serious illness to 2046?. *HRB Open Research*. 2:35.
- Mayburd, AL, Baranova, A. Increased lifespan, decreased mortality, and delayed cognitive decline in osteoarthritis. *Scientific Reports*. 9(1):18639.
- McCrory C, Fiorito G, Ni Cheallaigh C, Polidoro S, Karisola P, Aalenius H, Layte R, Seeman T, Vineis P, Kenny RA. How does socio-economic position (SEP) get biologically embedded? A comparison of allostatic load and the epigenetic clock(s). *Psychoneuroendocrinology*. 104:64-73.
- McDowell, CP, Gordon, BR, Andrews, KL, MacDonncha, C, Herring, MP. Associations of physical activity with anxiety symptoms and status: results from The Irish longitudinal study on ageing. *Epidemiology and psychiatric sciences*. 28(4):436-445.
- McDowell, CP, Gordon, BR, Herring, MP. Sex-related differences in the association between grip strength and depression: Results from the Irish Longitudinal Study on Ageing. *Experimental Gerontology*. 104:147-152.
- McDowell, CP, Gordon, BR, MacDonncha, C, Herring, MP. Physical activity correlates among older adults with probable generalized anxiety disorder: Results from The Irish Longitudinal Study on Ageing. *General Hospital Psychiatry*. 59:30-36.
- McGarrigle, L, Irving, K, van Boxtel, MPJ, Boran, L. Cognitive Reserve Capacity: Exploring and Validating a Theoretical Model in Healthy Ageing. *Journal of the International Neuropsychological Society*. 25(6):603-617.
- McMullan, I, Bunting, B, McDonough, S, Tully, M, Casson, K. Changes in physical activity predict changes in a comprehensive model of balance in older community-dwelling adults. A longitudinal analysis of the TILDA study. *Journal of Frailty, Sarcopenia and Falls*. 4(4):102-110.
- Mohan, G, Nolan, A, Lyons, S. An investigation of the effect of accessibility to General Practitioner services on healthcare utilisation among older people. *Social Science and Medicine*. 220:254-263.
- Ní Bhuachalla, B, McGarrigle, CA, O'Leary, N, Akuffo, KO, Peto, T, Beatty, S, Kenny, RA. Orthostatic blood pressure variability is associated with lower visual contrast sensitivity function: Findings from The Irish Longitudinal Study on Aging. *Experimental Gerontology*. 119:14-24.
- Nivakoski, S, Barrett, A. Estimating, and Interpreting, Retirement Income Replacement Rates. *Economic and Social Review*. 50(3):507-609.
- Nivakoski, S. Does the exchange motive influence intergenerational transfers? Evidence from Ireland. *Review of the Economics of the Household*. 17(3):1049-1079.
- Nolan, A, Barrett, A. The role of self-employment in Ireland's older workforce. *The Journal of the Economics of Ageing*. 14, 2019, 100201
- Nolan, A, Barrett, A. Working Beyond age 65 in Ireland. *Journal of Population Ageing*. 12(3):299-326
- Nolan, A, McCrory, C, Moore, P. Personality and preventive healthcare utilisation: Evidence from the Irish Longitudinal Study on Ageing. *Preventative Medicine*. 120:107-112
- O'Neill, KN, McHugh, SM, Kearney, PM. Cycle of Care for people with diabetes: an equitable initiative? . *HRB Open Research*. 2:3.
- O'Sullivan, M, Brennan, S, Lawlor, BA, Hannigan, C, Robertson, IH, Pertl, MM. Cognitive functioning among cognitively intact dementia caregivers compared to matched self-selected and population controls . *Ageing and Mental Health*. 23(5):566-573.
- Oliveira, IM, Hernández, B, Kenny, RA, Reilly, RB. Automatic Disability Categorisation based on ADLs among Older Adults in a Nationally Representative Population using Data Mining Methods. 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC). 2466-2469.
- Orr, J, Layte, R, O'Leary, N. Sexual Activity and Relationship Quality in Middle and Older Age: Findings From The Irish Longitudinal Study on Ageing (TILDA). *J Gerontol B Psychol Sci Soc Sci*. 74(2):287-297.
- Orr, J, Tobin, K, Carey, D, Kenny, RA, McGarrigle, C. Religious Attendance, Religious Importance, and the Pathways to Depressive Symptoms in Men and Women Aged 50 and Over Living in Ireland. *Research on Aging*. 41(9):891-911.
- Peeters, G, Feeney, J, Carey, D, Kennelly, S, Kenny, RA. A comprehensive assessment of risk factors for falls in middle-aged adults: co-ordinated analyses of cohort studies in four countries. *Osteoporosis International* 30(10):2099-2117.
- Peeters, G, Feeney, J, Carey, D, Kennelly, S, Kenny, RA. Fear of fall-

ing: a manifestation of executive dysfunction?. *International journal of geriatric psychiatry*. 34(8):1275-1282.

Power, JEM, Sjöberg, L, Kee, F, Kenny, RA, Lawlor, B. Comparisons of the discrepancy between loneliness and social isolation across Ireland and Sweden: findings from TILDA and SNAC-K. *Social psychiatry and psychiatric epidemiology*. 54(9):1079-1088.

Santini, ZI, Joyangi, AI, Tyrovolas, S, Haro, JM, Koushede, V. The association of social support networks and loneliness with negative perceptions of ageing: evidence from the Irish Longitudinal Study on Ageing (TILDA). *Ageing and Society*. 39(5):1070-1090

Scanlon, G, McCartney, D, Butler, JS, Loskutova, E, Loughman, J. Identification of Surrogate Biomarkers for the Prediction of Patients at Risk of Low Macular Pigment in Type 2 Diabetes. *Current Eye Research*. 44(12):1369-1380.

Schuch, FB, Stubbs, B, Meyer, J, Heissel, A, Zech, P, Vancampfort, D, Rosenbaum, S, Deenik, J, Firth, J, Ward, PB, Carvalho, AF, Hiles, SA. Physical activity protects from incident anxiety: A meta-analysis of prospective cohort studies. *Depression and Anxiety*. 44(12):1369-1380.

Walsh, CA, Cahir, C, Bennett, KE. Association between adherence to antihypertensive medications and health outcomes in middle and older aged community dwelling adults; results from the Irish longitudinal study on ageing. *European Journal of Clinical Pharmacology*. 75(9):1283-1292.

Ward, M, McGarrigle, CA, Kenny, RA. More than health: quality of life trajectories among older adults-findings from The Irish Longitudinal Study on Ageing (TILDA). *Qual Life Res*. 28(2):429-439.

TUDA

Moore K, Hughes CF, Hoey L, Ward M, Cunningham C, Molloy AM, Strain JJ, McCarroll K, Casey MC, Tracey F, Laird E, O'Kane M, McNulty H. B-vitamins in Relation to Depression in Older Adults Over 60 Years of Age: The Trinity Ulster Department of Agriculture (TUDA) Cohort Study.

J Am Med Dir Assoc. 2019 May;20(5):551-557.e1. doi: 10.1016/j.jamda.2018.11.031. Epub 2019 Jan 25.

PMID:30692033

Porter KM1, Ward M1, Hughes CF1, O'Kane M2, Hoey L1, McCann A3, Molloy AM4, Cunningham C5, Casey MC5, Tracey F6, Strain S1, McCarroll K5, Laird E4, Gallagher AM1, McNulty H1. Hyperglycemia and Metformin Use Are Associated With B Vitamin Deficiency and Cognitive Dysfunction in Older Adults.

J Clin Endocrinol Metab. 2019 Oct 1;104(10):4837-4847. doi: 10.1210/jc.2018-01791.

Medical Directorate (MED)

1) Al Nokhatha, S.A., Harrington, R., Conway, R.

Is methotrexate contra-indicated in lung involvement of rheumatoid arthritis?

(2020) *Joint Bone Spine*, 87 (6), pp. 535-537. Cited 3 times.

2) Blake, A., Collins, D., O'Connor, E., Bergin, C., McLaughlin, A.M., Martin-Loeches, I.

Clinical and biochemical characteristics of patients admitted to ICU with SARS-CoV-2

[Article@Características clínicas y bioquímicas de pacientes ingresados en UCI con SARS-CoV-2]

(2020) *Medicina Intensiva*, 44 (9), pp. 589-590. Cited 7 times.

3) Conway, R., Nikiphorou, E.

Treating interstitial lung disease in rheumatoid arthritis - The embers of hope

(2020) *Revmatologija (Bulgaria)*, 59 (12), pp. 3589-3590.

4) Galvin, M., Gavin, T., Mays, I., Heverin, M., Hardiman, O.

Individual quality of life in spousal ALS patient-caregiver dyads

(2020) *Health and Quality of Life Outcomes*, 18 (1), art. no. 371, .

5) Vermeulen, F.M., Gerbens, L.A.A., Schmitt, J., Deleuran, M., Irvine, A.D., Logan, K., Ouwerkerk, W., Vestergaard, C., Flohr, C., Spuls, P.I.

The European TREATment of Atopic eczema (TREAT) Registry Taskforce survey: prescribing

practices in Europe for phototherapy and systemic therapy in adult patients with moderate-to-severe

atopic eczema*

(2020) *British Journal of Dermatology*, 183 (6), pp. 1073-1082. Cited 2 times.

6) Smith, A., Barry, M.

Utilisation, expenditure and cost-effectiveness of cystic fibrosis drugs in Ireland: A retrospective

analysis of a national pharmacy claims database

(2020) *BMJ Open*, 10 (11), art. no. e040806, .

7) Leahy, J., Hickey, C., McConnell, D., Cassidy, O., Trela-Larsen, L., Barry, M., Tilson, L., McCullagh,

L. Coronavirus Disease 2019: Considerations for Health Technology Assessment From the National

Centre for Pharmacoeconomics Review Group

(2020) *Value in Health*, 23 (11), pp. 1423-1426. Cited 1 time.

8) Alsaleemi, A., O'Connor, C., Irvine, A.D., Leahy, T.R.

Topical cidofovir for the treatment of recalcitrant viral warts and molluscum contagiosum in Jacobsen

syndrome

(2020) *Pediatric Dermatology*, 37 (6), pp. 1191-1192. Cited 1 time.

9) Conway, R.

Allopurinol and Chronic Kidney Disease

(2020) *The New England journal of medicine*, 383 (17), p. 1689. Cited 1 time.

10) Finegan, E., Li Hi Shing, S., Siah, W.F., Chipika, R.H., Chang, K.M., McKenna, M.C., Doherty, M.A.,

Hengeveld, J.C., Vajda, A., Donaghy, C., Hutchinson, S., McLaughlin, R.L., Hardiman, O., Bede, P.

Evolving diagnostic criteria in primary lateral sclerosis: The clinical and radiological basis of "probable

PLS"

(2020) *Journal of the Neurological Sciences*, 417, art. no. 117052, . Cited 4 times.

11) Chipika, R.H., Christidi, F., Finegan, E., Li Hi Shing, S., McKenna, M.C., Chang, K.M., Karavasilis, E.,

Doherty, M.A., Hengeveld, J.C., Vajda, A., Pender, N., Hutchinson, S., Donaghy, C., McLaughlin,

R.L., Hardiman, O., Bede, P.

Amygdala pathology in amyotrophic lateral sclerosis and primary lateral sclerosis

Terms and conditions Privacy policy

Copyright © 2021 Elsevier B.V. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.

(2020) *Journal of the Neurological Sciences*, 417, art. no. 117039, . Cited 4 times.

- 12) Power Foley, M., Kelly, M.E., Kerr, C., Kennedy, C., Gallagher, D., Gillham, C., Mehigan, B.J., McCormick, P.H., Bergin, C., Larkin, J.O. Management of anal intraepithelial neoplasia and anal squamous cell carcinoma at a tertiary referral centre with a dedicated infectious diseases unit: an 18-year review (2020) *International Journal of Colorectal Disease*, 35 (10), pp. 1855-1864.
- 13) O’Gorman, P., Naimimohasses, S., Monaghan, A., Kennedy, M., Finn, S.P., Moore, J.B., Gormley, J., Norris, S. Letter: proving the benefit of exercise intervention in metabolic associated fatty liver disease—authors’ reply (2020) *Alimentary Pharmacology and Therapeutics*, 52 (8), pp. 1426-1427.
- 14) Pender, N., Pinto-Grau, M., Hardiman, O. Cognitive and behavioural impairment in amyotrophic lateral sclerosis (2020) *Current opinion in neurology*, 33 (5), pp. 649-654.
- 15) O’Gorman, P., Naimimohasses, S., Monaghan, A., Kennedy, M., Melo, A.M., Ní Fhloinn, D., Doherty, D.G., Beddy, P., Finn, S.P., Moore, J.B., Gormley, J., Norris, S. Improvement in histological endpoints of MAFLD following a 12-week aerobic exercise intervention (2020) *Alimentary Pharmacology and Therapeutics*, 52 (8), pp. 1387-1398. Cited 4 times.
- 16) Smith, A., Barry, M. Combining health technology assessment and health technology management to deliver cost-effective prescribing and cost containment—the Irish experience (2020) *Expert Review of Pharmacoeconomics and Outcomes Research*, 20 (5), pp. 431-436.
- 17) Steinhoff, B.J., Christensen, J., Doherty, C.P., Majoie, M., De Backer, M., Hellot, S., Leunikava, I., Leach, J.P. Effectiveness and tolerability of adjunctive brivaracetam in patients with focal seizures: Second interim analysis of 6-month data from a prospective observational study in Europe (2020) *Epilepsy Research*, 165, art. no. 106329, . Cited 2 times.
- 18) Blakeway, H., Van-de-Velde, V., Allen, V.B., Kravvas, G., Palla, L., Page, M.J., Flohr, C., Weller, R.B., Irvine, A.D., McPherson, T., Roberts, A., Williams, H.C., Reynolds, N., Brown, S.J., Paternoster, L., Langan, S.M. What is the evidence for interactions between filaggrin null mutations and environmental exposures in atopic dermatitis? A systematic review (2020) *British Journal of Dermatology*, 183 (3), pp. 443-451. Cited 2 times.
- 19) Freeman, E.E., McMahon, D.E., Hruza, G.J., Irvine, A.D., Spuls, P.I., Smith, C.H., Mahil, S.K., Castelo-Soccio, L., Cordoro, K.M., Lara-Corrales, I., Naik, H.B., Alhusayen, R., Ingram, J.R., Feldman, S.R., Balogh, E.A., Kappelman, M.D., Wall, D., Meah, N., Sinclair, R., Beylot-Barry, M., Fitzgerald, M., French, L.E., Lim, H.W., Griffiths, C.E.M., Flohr, C. International collaboration and rapid harmonization across dermatologic COVID-19 registries (2020) *Journal of the American Academy of Dermatology*, 83 (3), pp. e261-e266. Cited 3 times.
- 20) Jacquemard, T., Doherty, C.P., Fitzsimons, M.B. Examination and diagnosis of electronic patient records and their associated ethics: A scoping literature review (2020) *BMC Medical Ethics*, 21 (1), art. no. 76, . Cited 2 times.
- 21) O’Connell, J., Keohane, S., McGreal-Bellone, A., McDonagh, P., Naimimohasses, S., Kennedy, U., Dunne, C., Hartery, K., Larkin, J., MacCarthy, F., Meaney, J., McKiernan, S., Norris, S., O’Toole, D., Kevans, D. Characteristics and outcomes of acute colitis diagnosed on cross-sectional imaging presenting via the emergency department in an Irish academic medical centre (2020) *Journal of Clinical Pharmacy and Therapeutics*, 45 (1), pp. 1-10. Cited 1 time.
- 22) Lamrock, F., McCullagh, L., Tilson, L., Barry, M. A retrospective analysis of budget impact models submitted to the National Centre for Pharmacoeconomics in Ireland (2020) *European Journal of Health Economics*, 21 (6), pp. 895-901.
- 23) Kelleher, E., McNamara, P., Dunne, J., Fitzmaurice, B., Heron, E.A., Whitty, P., Walsh, R., Mooney, C., Hogan, D., Conlon, N., Gill, M., Vincent, A., Doherty, C.P., Corvin, A. Prevalence of N-Methyl-D-Aspartate Receptor antibody (NMDAR-Ab) encephalitis in patients with first episode psychosis and treatment resistant schizophrenia on clozapine, a population based study (2020) *Schizophrenia Research*, 222, pp. 455-461.
- 24) Langan, S.M., Irvine, A.D., Weidinger, S. Atopic dermatitis (2020) *The Lancet*, 396 (10247), pp. 345-360. Cited 18 times.
- 25) Mahil, S.K., Yiu, Z.Z.N., Mason, K.J., Dand, N., Coker, B., Wall, D., Fletcher, G., Bosma, A., Capon, F., Iversen, L., Langan, S.M., Di Meglio, P., Musters, A.H., Prieto-Merino, D., Tsakok, T., Warren, R.B., Flohr, C., Spuls, P.I., Griffiths, C.E.M., Barker, J., Irvine, A.D., Smith, C.H. Global reporting of cases of COVID-19 in psoriasis and atopic dermatitis: an opportunity to inform care during a pandemic (2020) *British Journal of Dermatology*, 183 (2), pp. 404-406. Cited 10 times.
- 26) Hatton, S.N., Huynh, K.H., Bonilha, L., Abela, E., Alhusaini, S., Altmann, A., Alvim, M.K.M., Balachandra, A.R., Bartolini, E., Bender, B., Bernasconi, N., Bernasconi, A., Bernhardt, B., Bargallo, N., Caldirour, B., Caligiuri, M.E., Carr, S.J.A., Cavalleri, G.L., Cendes, F., Concha, L., Davoodi-Bojd, E., Desmond, P.M., Devinsky, O., Doherty, C.P., Domin, M., Duncan, J.S., Focke, N.K., Foley, S.F., Gambardella, A., Gleichgerrcht, E., Guerrini, R., Hamandi, K., Ishika-

- wa, A., Keller, S.S., Kochunov, P.V., Kotikalapudi, R., Kreilkamp, B.A.K., Kwan, P., Labate, A., Langner, S., Lenge, M., Liu, M., Lui, E., Martin, P., Mascaldi, M., Moreira, J.C.V., Morita-Sherman, M.E., O'Brien, T.J., Pardoe, H.R., Pariente, J.C., Ribeiro, L.F., Richardson, M.P., Rocha, C.S., Rodriguez-Cruces, R., Rosenow, F., Severino, M., Sinclair, B., Soltanian-Zadeh, H., Striano, P., Taylor, P.N., Thomas, R.H., Tortora, D., Velakoulis, D., Vezzani, A., Vivash, L., von Podewils, F., Vos, S.B., Weber, B., Winston, G.P., Yasuda, C.L., Zhu, A.H., Thompson, P.M., Whelan, C.D., Jahanshad, N., Sisodiya, S.M., McDonald, C.R.
- White matter abnormalities across different epilepsy syndromes in adults: An ENIGMA-Epilepsy study (2020) *Brain*, 143 (8), pp. 2454-2473. Cited 4 times.
- 27) Hardiman, O., Van Den Berg, L.H. The beginning of genomic therapies for ALS (2020) *New England Journal of Medicine*, 383 (2), pp. 180-181. Cited 2 times.
- 28) Brizzi, K.T., Bridges, J.F.P., Yersak, J., Balas, C., Thakur, N., Galvin, M., Hardiman, O., Heatwole, C., Ravits, J., Simmons, Z., Bruijn, L., Chan, J., Bedlack, R., Berry, J.D. Understanding the needs of people with ALS: a national survey of patients and caregivers (2020) *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, 21 (5-6), pp. 355-363.
- 29) Meah, N., Wall, D., York, K., Bhojru, B., Bokhari, L., Sigall, D.A., Bergfeld, W.F., Betz, R.C., Blume-Peytavi, U., Callender, V., Chitreddy, V., Combalia, A., Cot-sarelis, G., Craiglow, B., Donovan, J., Eisman, S., Farrant, P., Green, J., Grimalt, R., Harries, M., Hordinsky, M., Irvine, A.D., Itami, S., Jolliffe, V., King, B., Lee, W.-S., McMichael, A., Messenger, A., Mirmirani, P., Olsen, E., Orlov, S.J., Piraccini, B.M., Rakowska, A., Reygagne, P., Roberts, J.L., Rudnicka, L., Shapiro, J., Sharma, P., Tosti, A., Vogt, A., Wade, M., Yip, L., Zlotogorski, A., Sinclair, R. The Alopecia Areata Consensus of Experts (ACE) study: Results of an international expert opinion on treatments for alopecia areata (2020) *Journal of the American Academy of Dermatology*, 83 (1), pp. 123-130. Cited 4 times.
- 30) Olszewska, D.A., McCarthy, A., Soto-Beasley, A.I., Walton, R.L., Magennis, B., McLaughlin, R.L., Hardiman, O., Ross, O.A., Lynch, T. Association Between Glucocerebrosidase Mutations and Parkinson's Disease in Ireland (2020) *Frontiers in Neurology*, 11, art. no. 527, .
- 31) Esposito, I., Cicconi, P., D'Alise, A.M., Brown, A., Esposito, M., Swadling, L., Holst, P.J., Bassi, M.R., Stornaiuolo, M., Mori, F., Vassilev, V., Li, W., Donnison, T., Gentile, C., Turner, B., von Delft, A., Del Sorbo, M., Barra, F., Contino, A.M., Abbate, A., Novellino, E., Thomsen, A.R., Christensen, J.P., Lahm, A., Grazioli, F., Ammendola, V., Siani, L., Colloca, S., Klenerman, P., Nicosia, A., Dorrell, L., Folgori, A., Capone, S., Barnes, E., Bliss, C., Ghaffari, E., Hartnell, F., Kopycinski, J., Makvandi-Nejad, S., Nevin, V., Borys, D., Boutriau, D., Cochard, L., Lin, L., Struyf, F., Hanke, T., Bannan, C., Bergin, C., Hoffman, M., Schmid, P., Vernazza, P., Gardiner, C., Woods, E. MHC class II invariant chain-adjuvanted viral vectored vaccines enhances T cell responses in humans (2020) *Science Translational Medicine*, 12 (548), art. no. eaaz7715, . Cited 1 time.
- 32) O'Connor, C.T., Murray, P.C., Ryan, M.F., Byrne, D. A case of phlegmasia cerulea dolens as a result of May-Thurner syndrome (2020) *QJM*, 113 (6), pp. 419-420.
- 33) Fogarty, H., Townsend, L., Ni Cheallaigh, C., Bergin, C., Martin-Loeches, I., Browne, P., Bacon, C.L., Gaule, R., Gillett, A., Byrne, M., Ryan, K., O'Connell, N., O'Sullivan, J.M., Conlon, N., O'Donnell, J.S. More on COVID-19 coagulopathy in Caucasian patients (2020) *British Journal of Haematology*, 189 (6), pp. 1060-1061. Cited 37 times.
- 34) Fogarty, H., Townsend, L., Ni Cheallaigh, C., Bergin, C., Martin-Loeches, I., Browne, P., Bacon, C.L., Gaule, R., Gillett, A., Byrne, M., Ryan, K., O'Connell, N., O'Sullivan, J.M., Conlon, N., O'Donnell, J.S. COVID19 coagulopathy in Caucasian patients (2020) *British Journal of Haematology*, 189 (6), pp. 1044-1049. Cited 111 times.
- 35) Alexander, H., Paller, A.S., Traidl-Hoffmann, C., Beck, L.A., De Benedetto, A., Dhar, S., Girolomoni, G., Irvine, A.D., Spuls, P., Su, J., Thyssen, J.P., Vestergaard, C., Werfel, T., Wollenberg, A., Deleuran, M., Flohr, C. The role of bacterial skin infections in atopic dermatitis: expert statement and review from the International Eczema Council Skin Infection Group (2020) *British Journal of Dermatology*, 182 (6), pp. 1331-1342. Cited 11 times.
- 36) Bosma, A.L., Spuls, P.I., Garcia-Doval, I., Naldi, L., Prieto-Merino, D., Tesch, F., Apfelbacher, C.J., Arents, B.W.M., Barbarot, S., Baselga, E., Deleuran, M., Eichenfield, L.F., Gerbens, L.A.A., Irvine, A.D., Manca, A., Mendes-Bastos, P., Middelkamp-Hup, M.A., Roberts, A., Seneschal, J., Svensson, Å., Thyssen, J.P., Torres, T., Vermeulen, F.M., Vestergaard, C., von Kobyletzki, L.B., Wall, D., Weidinger, S., Schmitt, J., Flohr, C. TREATment of ATopic eczema (TREAT) Registry Taskforce: protocol for a European safety study of dupilumab and other systemic therapies in patients with atopic eczema (2020) *British Journal of Dermatology*, 182 (6), pp. 1423-1429. Cited 5 times.
- 37) Kerr, C., Heskin, J., Moran, B., Sadlier, C., Bergin, C. Anal cancer screening and Pap testing acceptability among HIV-positive men who have sex with men populations (2020) *Journal of the European Academy of Dermatology and Venereology*, 34 (5), pp. e226-e228. Cited 1 time.

- 38) Bergin, C., Horgan, M.
Past, present and future of medical education in Ireland
(2020) *Asia Pacific Scholar*, 5 (2), pp. 1-4.
- 39) Lenehan, S.M., Boylan, G.B., Livingstone, V., Fogarty, L., Twomey, D.M., Nikolovski, J., Irvine, A.D., Kiely, M., Kenny, L.C., Hourihane, J.O.B., Murray, D.M.
The impact of short-term predominate breastfeeding on cognitive outcome at 5 years
(2020) *Acta Paediatrica, International Journal of Paediatrics*, 109 (5), pp. 982-988. Cited 1 time.
- 40) Meier, J.M., van der Burgh, H.K., Nitert, A.D., Bede, P., de Lange, S.C., Hardiman, O., van den Berg, L.H., van den Heuvel, M.P.
Connectome-Based Propagation Model in Amyotrophic Lateral Sclerosis
(2020) *Annals of Neurology*, 87 (5), pp. 725-738. Cited 8 times.
- 41) Ní Chaoimh, C., Nico, C., Puppels, G.J., Caspers, P.J., Wong, X.F.C.C., Common, J.E., Irvine, A.D., Hourihane, J.O.
In vivo Raman spectroscopy discriminates between FLG loss-of-function carriers vs wild-type in day 1-4 neonates
(2020) *Annals of Allergy, Asthma and Immunology*, 124 (5), pp. 500-504.
- 42) O'Rourke, C., Welaratne, I., Cournane, S., McLoughlin, L.C., Reynolds, J.V., Johnston, C., Sheehy, N.
Diagnostic accuracy of SUVmax in predicting malignancy of supraclavicular lymph nodes from primary oesophageal cancer
(2020) *European Journal of Radiology*, 125, art. no. 108860, .
- 43) Paller, A.S., Guttman-Yassky, E., Irvine, A.D., Baselga, E., De Bruin-Weller, M., Jayawardena, S., Zhang, A., Mina-Osorio, P., Rizova, E., Ozturk, Z.E.
Protocol for a prospective, observational, longitudinal study in paediatric patients with moderate-to-severe atopic dermatitis (PEDISTAD): Study objectives, design and methodology
(2020) *BMJ Open*, 10 (3), art. no. e033507, . Cited 1 time.
- 44) Banks, J., Varley, J., Fitzsimons, M., Doherty, C.P.
Self-reported antiepilepsy medication adherence and its connection to perception of medication error
(2020) *Epilepsy and Behavior*, 104, art. no. 106896, . Cited 1 time.
- 45) Bredin, C., Naimimohasses, S., Norris, S., Wright, C., Hancock, N., Hart, K., Moore, J.B.
Development and relative validation of a short food frequency questionnaire for assessing dietary intakes of non-alcoholic fatty liver disease patients
(2020) *European Journal of Nutrition*, 59 (2), pp. 571-580. Cited 3 times.
- 46) Thyssen, J.P., Jakasa, I., Riethmüller, C., Schön, M.P., Braun, A., Haftek, M., Fallon, P.G., Wróblewski, J., Jakubowski, H., Eckhart, L., Declercq, W., Koppes, S., Engebretsen, K.A., Bonefeld, C., Irvine, A.D., Keita-Alassane, S., Simon, M., Kawasaki, H., Kubo, A., Amagai, M., Matsui, T., Kezic, S.
Filaggrin Expression and Processing Deficiencies Impair Corneocyte Surface Texture and Stiffness in Mice
(2020) *Journal of Investigative Dermatology*, 140 (3), pp. 615-623. e5. Cited 8 times.
- 47) Antoniadis, A.M., Galvin, M., Heverin, M., Hardiman, O., Mooney, C.
Prediction of caregiver burden in amyotrophic lateral sclerosis: A machine learning approach using random forests applied to a cohort study
(2020) *BMJ Open*, 10 (2), art. no. e033109, . Cited 2 times.
- 48) O'Donnell, H., Lamrock, F., Tilson, L., Barry, M.
To HTA or Not to HTA: Identifying the Factors Influencing the Rapid Review Outcome in Ireland
(2020) *Value in Health*, 23 (2), pp. 274-275.
- 49) Conway, R., Byrne, D., O'Riordan, D., Silke, B.
Comparative influence of Acute Illness Severity and comorbidity on mortality
(2020) *European Journal of Internal Medicine*, 72, pp. 42-46. Cited 3 times.
- 50) Gorry, C., McCullagh, L., Barry, M.
Transferability of Economic Evaluations of Treatments for Advanced Melanoma
(2020) *Pharmacoeconomics*, 38 (2), pp. 217-231.
- 51) Grant, C., Bergin, C., O'Connell, S., Cotter, J., Cheallagh, C.N.
High-cost, high-need users of acute unscheduled HIV care: A cross-sectional study
Terms and conditions Privacy policy
Copyright © 2021 Elsevier B.V. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.
(2020) *Open Forum Infectious Diseases*, 7 (2), art. no. ofaa037, .
- 52) O'Donnell, H., McCullagh, L., Barry, M., Walsh, C.
The Interaction between Price Negotiations and Heterogeneity: Implications for Economic Evaluations
(2020) *Medical Decision Making*, 40 (2), pp. 144-155.
- 53) Byrne, D., Walsh, J.P., Daly, C., McKiernan, S., Norris, S., Murphy, R.T., King, G.
Improvements in cardiac function detected using echocardiography in patients with hereditary haemochromatosis
(2020) *Irish Journal of Medical Science*, 189 (1), pp. 109-117. Cited 3 times.
- 54) Kennedy, C., Ni Choitir, C., Clarke, S., Bennett, K., Barry, M.
Direct oral anticoagulants uptake and an oral anticoagulation paradox
(2020) *British Journal of Clinical Pharmacology*, 86 (2), pp. 392-397. Cited 1 time.
- 55) Byrne, J.-P., Power, R., Kiersey, R., Varley, J., Doherty, C.P., Sarris, A.J., Heffernan, E., Lambert, V., Fitzsimons, M.
Corrigendum to "The rhetoric and reality of integrated patient-centered care for healthcare providers: An ethnographic exploration of epilepsy care in Ireland" (*Epilepsy & Behavior* (2019) 94 (87–92), (S1525505019301222), (10.1016/j.yebeh.2019.02.011))
(2020) *Epilepsy and Behavior*, 103, art. no. 106562, .
- 56) O'Keefe, E., Kelly, E., Liu, Y., Giordano, C., Wallace, E., Hynes, M., Tiernan, S., Meagher, A., Greene, C., Hughes, S., Burke, T., Kealy, J., Doyle, N., Hay, A., Farrell, M., Grant, G.A., Friedman,

- A., Veksler, R., Molloy, M.G., Meaney, J.F., Pender, N., Camarillo, D., Doherty, C.P., Campbell, M.
Dynamic Blood-Brain Barrier Regulation in Mild Traumatic Brain Injury
(2020) *Journal of Neurotrauma*, 37 (2), pp. 347-356. Cited 15 times.
- 57) Costello, E., Lonergan, K., Madden, C., O'Sullivan, M., Mays, I., Heverin, M., Pinto-Grau, M., Hardiman, O., Pender, N.
Equivalency and practice effects of alternative versions of the Edinburgh Cognitive and Behavioral ALS Screen (ECAS)
(2020) *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, 21 (1-2), pp. 86-91.
- 58) Tattersall, R., Murray, D., Heverin, M., Rooney, J., Tobin, K., Vance, R., Hardiman, O., Meldrum, D.
Respiratory measurements and airway clearance device prescription over one year in amyotrophic lateral sclerosis
Terms and conditions Privacy policy
Copyright © 2021 Elsevier B.V. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.
(2020) *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, 21 (1-2), pp. 70-77.
- 59) Conway, R., Byrne, D., O'Riordan, D., Silke, B.
Limited prognostic utility of a simplified vital sign based risk calculator in acute medical admissions
(2020) *Acute Medicine*, 19 (3), pp. 138-144. Cited 1 time.
- 60) Hassan, H.F., Conway, R.
Image of the month: Remitting seronegative symmetrical synovitis with pitting oedema (RS3PE): An important spot diagnosis
(2020) *Clinical Medicine, Journal of the Royal College of Physicians of London*, 20 (5), p. 524. Cited 1 time.
- 61) Conway, R., O'Connell, B., Byrne, D., O'Riordan, D., Silke, B.
Prognostic Value of Blood Cultures as an Illness Severity Marker in Emergency Medical Admissions
(2020) *Acute Medicine*, 19 (2), pp. 83-89.
- 62) Chipika, R.H., Siah, W.F., McKenna, M.C., Li Hi Shing, S., Hardiman, O., Bede, P.
The presymptomatic phase of amyotrophic lateral sclerosis: are we merely scratching the surface?
(2020) *Journal of Neurology*, . Cited 2 times.
- 63) Harrington, R., Al Nokhatha, S.A., Conway, R.
Jak inhibitors in rheumatoid arthritis: An evidence-based review on the emerging clinical data
(2020) *Journal of Inflammation Research*, 13, pp. 519-531. Cited 2 times.
- 64) Kelly, M., O'Connor, R., Townsend, L., Coghlan, M., Relihan, E., Moriarty, M., Carr, B., Melanophy, G., Doyle, C., Bannan, C., O'Riordan, R., Merry, C., Clarke, S., Bergin, C.
Clinical outcomes and adverse events in patients hospitalised with COVID-19, treated with off-label hydroxychloroquine and azithromycin
(2020) *British Journal of Clinical Pharmacology*, . Cited 2 times.
- 65) Conway, R.
Glucosamine and mortality: A note of caution
(2020) *Annals of the Rheumatic Diseases*, .
- 66) Conway, R., Byrne, D., Cournane, S., O'Riordan, D., Coveney, S., Silke, B.
Is there excessive troponin testing in clinical practice? Evidence from emergency medical admissions
(2020) *European Journal of Internal Medicine*, .
- 67) Smith, A., Barry, M.
Oral anticoagulants-utilisation and expenditure under the community drugs schemes
(2020) *Irish Medical Journal*, 113 (5), art. no. P71, .
- 68) Sadlier, C., Lynam, A., Kerr, C., Sheils, O., Bergin, C.
Anal cancer in people living with HIV: A case series
(2020) *International Journal of STD and AIDS*, 31 (1), pp. 82-84.
- 69) Gorry, C., McCullagh, L., Barry, M.
Economic Evaluation of Systemic Treatments for Advanced Melanoma: A Systematic Review
(2020) *Value in Health*, 23 (1), pp. 52-60. Cited 2 times.
- 70) Drislane, C., Irvine, A.D.
Terms and conditions Privacy policy
Copyright © 2021 Elsevier B.V. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.
The role of filaggrin in atopic dermatitis and allergic disease
(2020) *Annals of Allergy, Asthma and Immunology*, 124 (1), pp. 36-43. Cited 26 times.
- 71) Al Nokhatha, S., MacEoin, N., Conway, R.
Correspondence on 'Influence of COVID-19 pandemic on decisions for the management of people with inflammatory rheumatic and musculoskeletal diseases: A survey among EULAR countries'
(2020) *Annals of the Rheumatic Diseases*, . Cited 1 time.
- 72) Pinto-Grau, M., O'Connor, S., Murphy, L., Costello, E., Heverin, M., Vajda, A., Hardiman, O., Pender, N.
Validation and standardization of the Psycholinguistic Assessments of Language Processing in Aphasia (PALPA)
(2020) *Aphasiology*, .
- 73) Boggs, J.M.E., Irvine, A.D.
PLACK syndrome resulting from a novel homozygous variant in CAST
(2020) *Pediatric Dermatology*, .
- 73) <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091879833&doi=10.1111%2fpde.14383&partnerID=40&md5=ebf3e2d076527366528bc051c06fd0af>
- 74) O'Gorman, P., Strahan, O., Ferguson, D., Monaghan, A., Kennedy, M., Forde, C., Melo, A.M., Doherty, D.G., O'Brien, K.K., McKiernan, S., Kenny, R.A., Coen, R., Doherty, C., Bergin, C., Gormley, J., Norris, S.
Improvement in cognitive impairment following a 12-week aerobic exercise intervention in individuals with non-cirrhotic chronic hepatitis C
(2020) *Journal of Viral Hepatitis*, .
- 75) Power, R., Byrne, J.-P., Kiersey, R., Varley, J., Doherty, C.P., Lambert, V., Heffernan, E., Saris, A.J., Fitzsimons, M.

Are patients ready for integrated person-centered care? A qualitative study of people with epilepsy in Ireland
(2020) *Epilepsy and Behavior*, 102, art. no. 106668, . Cited 3 times.

76) Nousbeck, J., McAleer, M.A., Hurault, G., Kenny, E., Harte, K., Kezic, S., Tanaka, R.J., Irvine, A.D.
MicroRNA analysis of childhood atopic dermatitis reveals a role for miR-451a
(2020) *British Journal of Dermatology*, . Cited 1 time.

77) Stefanovic, N., Flohr, C., Irvine, A.D.
The exposome in atopic dermatitis
(2020) *Allergy: European Journal of Allergy and Clinical Immunology*, 75 (1), pp. 63-74. Cited 18
Terms and conditions Privacy policy
Copyright © 2021 Elsevier B.V. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.
times.

78) Chipika, R.H., Finegan, E., Li Hi Shing, S., McKenna, M.C., Christidi, F., Chang, K.M., Doherty, M.A., Hengeveld, J.C., Vajda, A., Pender, N., Hutchinson, S., Donaghy, C., McLaughlin, R.L., Hardiman, O., Bede, P.
"Switchboard" malfunction in motor neuron diseases: Selective pathology of thalamic nuclei in amyotrophic lateral sclerosis and primary lateral sclerosis
(2020) *NeuroImage: Clinical*, 27, art. no. 102300, . Cited 6 times.

79) Peters, S., Vlaanderen, J., Portengen, L., Vermeulen, R., Peters, S., Visser, A.E., Veldink, J.H., Van Den Berg, L.H., D'Ovidio, F., Chio, A., Beghi, E., Pupillo, E., Logroscino, G., Logroscino, G., Hardiman, O., Van Der Kooij, A.J., Raaphorst, J., Calvo, A., Moglia, C., Casale, F., Fuda, G., Canosa, A., Manera, U., Bombaci, A., Grassano, M., Vasta, R., Salamone, P., Marrali, G., Iazzolino, B., Mazzini, L., Rooney, J., Heverin, M., Vajda, A., Comi, G., Riva, N., Lunetta, C., Gerardi, F., Filosto, M., Cotelli, M.S., Rinaldi, F., Chiveri, L., Guaita, M.C., Perrone, P., Mauro, C., Diamanti, L., Ferrarese, C., Tremolizzo, L., Delodovici, M.L., Bono, G., Tortelli, R., Zecca, C.
Effect modification of the association between total cigarette smoking and ALS risk by intensity, duration and time-since-quit: Euro-MOTOR
(2020) *Journal of Neurology, Neurosurgery and Psychiatry*, 91 (1), pp. 33-39. Cited 6 times.

80) Haftek, M., McAleer, M.A., Jakasa, I., McLean, W.H.I., Kezic, S., Irvine, A.D.
Terms and conditions Privacy policy
Copyright © 2021 Elsevier B.V. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.
Changes in nano-mechanical properties of human epidermal cornified cells in children with atopic dermatitis
(2020) *Wellcome Open Research*, 5, art. no. 97, .

81) Franklin, J.P., Cooper-Knock, J., Baheerathan, A., Moll, T., Männikkö, R., Heverin, M., Hardiman, O., Shaw, P.J., Hanna, M.G.
Concurrent sodium channelopathies and amyotrophic lateral sclerosis supports shared pathogenesis
(2020) *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, 21 (7-8), pp. 627-630.

82) Onoufriadis, A., Cabezas, A., Ng, J.C.F., Canales, J., Costas, M.J., Ribeiro, J.M., Rodrigues, J.R., McAleer, M.A., Castelo-Soccio, L., Simpson, M.A., Fraternali, F., Irvine, A.D., Cameselle, J.C., McGrath, J.A.
Autosomal recessive hypotrichosis with loose anagen hairs associated with TKFC mutations
(2020) *British Journal of Dermatology*, . Cited 1 time.

83) Siegels, D., Heratizadeh, A., Abraham, S., Binnmyr, J., Brockow, K., Irvine, A.D., Halcken, S., Mortz, C.G., Flohr, C., Schmid-Grendelmeier, P., Van der Poel, L.-A., Muro, A., Weidinger, S., Werfel, T., Schmitt, J.
Systemic treatments in the management of atopic dermatitis: A systematic review and meta-analysis
(2020) *Allergy: European Journal of Allergy and Clinical Immunology*, .

84) Bendotti, C., Bonetto, V., Pupillo, E., Logroscino, G., Al-Chalabi, A., Lunetta, C., Riva, N., Mora, G., Lauria, G., Weishaupt, J.H., Agosta, F., Malaspina, A., Basso, M., Greensmith, L., Van Den Bosch, L., Ratti, A., Corbo, M., Hardiman, O., Chiò, A., Silani, V., Beghi, E.
Focus on the heterogeneity of amyotrophic lateral sclerosis
(2020) *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, 21 (7-8), pp. 485-495.

85) Shefner, J.M., Andrews, J.A., Genge, A., Jackson, C., Lechtzin, N., Miller, T.M., Cockcroft, B.M., Meng, L., Wei, J., Wolff, A.A., Malik, F.I., Bodkin, C., Brooks, B.R., Caress, J., Dionne, A., Fee, D., Goutman, S.A., Goyal, N.A., Hardiman, O., Hayat, G., Heiman-Patterson, T., Heitzman, D., Henderson, R.D., Johnston, W., Karam, C., Kiernan, M.C., Kolb, S.J., Korngut, L., Ladha, S., Matte, G., Mora, J.S., Needham, M., Oskarsson, B., Pattee, G.L., Pioro, E.P., Pulley, M., Quan, D., Reznia, K., Schellenberg, K.L., Schultz, D., Shoesmith, C., Simmons, Z., Statland, J., Sultan, S., Swenson, A., Berg, L.H.V.D., Vu, T., Vucic, S., Weiss, M., Whyte-Rayson, A., Wymer, J., Zinman, L., Rudnicki, S.A.
A Phase 2, Double-Blind, Randomized, Dose-Ranging Trial Of Riluzole In Patients With ALS
(2020) *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, . Cited 2 times.

Surgery, Anaesthesia and Critical Care (SACC)

1. Clostridioides difficile (formerly Clostridium difficile) infection in the critically ill: an expert statement. Antonelli M, Martin-Loeches I, Dimopoulos G, Gasbarrini A, Vallecocchia MS. *Intensive Care Med*. 2020 Feb;46(2):215-224. doi: 10.1007/s00134-019-05873-x. Epub 2020 Jan 14. PMID: 31938827 Review.
2. Sepsis Associated Delirium. Atterton B, Paulino MC, Povoia P, Martin-Loeches I. *Medicina (Kaunas)*. 2020 May 18;56(5):240. doi: 10.3390/medicina56050240. PMID: 32443606 Free PMC article. Review.
3. Correction to: Expert statement on the ICU management of patients with thrombotic thrombocytopenic purpura. Azoulay E, Bauer PR, Mariotte E, Russell L, Knoebl P, Martin-Loeches I, Pène F, Puxty K, Povoia P, Barratt-Due A, Garnacho-Montero J, Wendon J, Munshi L, Benoit D, von Bergwelt-Baildon M, Maggiorini M, Coppo P, Cataland S, Veyradier A, Van de

- Louw A; Nine-i Investigators. *Intensive Care Med.* 2020 Mar;46(3):570-571. doi: 10.1007/s00134-019-05904-7. PMID: 31965263
4. Performance of existing definitions and tests for the diagnosis of invasive aspergillosis in critically ill, adult patients: A systematic review with qualitative evidence synthesis. Bassetti M, Giacobbè DR, Grecchi C, Rebuffi C, Zuccaro V, Scudeller L; FUNDICU investigators. *J Infect.* 2020 Jul;81(1):131-146. doi: 10.1016/j.jinf.2020.03.065. Epub 2020 Apr 21. PMID: 32330523 Review.
 5. Ensuring editorial continuity and quality of science during the COVID-19 storm: the ICM experience. Bein T, Vargiolu A; ICM Editorial Board. *Intensive Care Med.* 2020 Oct;46(10):1918-1920. doi: 10.1007/s00134-020-06207-y. PMID: 32815029 Free PMC article. No abstract available.
 6. Bhatt NR, Murphy CA, Wall N, McEvoy E, Flynn RJ, Thomas AZ, Manecksha RP, Murphy PG, Smyth LG. Implications of faecal ESBL carriers undergoing TRUS-guided prostate biopsy (TRUSPB): role of screening prior to TRUSPB. *Ir J Med Sci.* 2020 Aug;189(3):817-823. doi: 10.1007/s11845-019-02149-7.
 7. Blake A, Collins D, O'Connor E, et al. Clinical and biochemical characteristics of patients admitted to ICU with SARS-CoV-2. *Medicina Intensiva.* 16 May 2020; <https://doi.org/10.1016/j.medin.2020.05.003>.
 8. Clinical and biochemical characteristics of patients admitted to ICU with SARS-CoV-2. Blake A, Collins D, O'Connor E, Bergin C, McLaughlin AM, Martin-Loeches I. *Med Intensiva.* 2020 Dec;44(9):589-590. doi: 10.1016/j.medin.2020.05.003. Epub 2020 May 16. PMID: 32425288 Free PMC article. No abstract available.
 9. Brady L, Hayes B, Sheill G, Baird AM, Guinan E, Stanfill B, Vlainic T, Casey O, Murphy V, Greene J, Allott EH, Hussey J, Cahill F, Van Hemelrijck M, Peat N, Mucci L, Cunningham M, Grogan L, Lynch T, Manecksha RP, McCaffrey J, O'Donnell D, Sheils O, O'Leary J, Rudman S, McDermott R, Finn S. Platelet cloaking of circulating tumour cells in patients with metastatic prostate cancer: Results from ExPeCT, a randomised controlled trial. *PLoS One.* 2020 Dec 18;15(12):e0243928. doi:10.1371/journal.pone.0243928.
 10. Brennan R, D'Angelo G, Casey MC, Orr DJA. Anatomy of the extensor mechanism of the thumb in relation to the clinical presentation of extensor pollicis longus rupture. *European Journal of Plastic Surgery* 2020; 43(2): 169-74.
 11. From the macro to the micro. Diagnosis at first glance. Cantan B, Martin-Loeches I. *Med Intensiva.* 2020 May 4;S0210-5691(20)30105-4. doi: 10.1016/j.medin.2020.04.005. Online ahead of print. PMID: 32381304 English, Spanish. No abstract available.
 12. Collins PM, Madden A, O'Connell C, Omer SA, Shakeel Inder M, Casey RG, Flynn RJ, Thomas AZ, Smyth LG, Manecksha RP. Urological service provision during the COVID-19 period: the experience from an Irish tertiary centre. *Ir J Med Sci.* 2020 Aug 27;1-6. doi: 10.1007/s11845-020-02352-x.
 13. Protocol for the development of a core outcome set for reporting outcomes of management of velopharyngeal dysfunction. de Blacam C, Baylis AL, Kirschner RE, Smith SM, Sell D, Sie KCY, Harris HE, Orr DJA. *BMJ Open.* 2020 Aug 13;10(8):e036824. doi: 10.1136/bmjopen-2020-036824. PMID: 32792441
 14. Feasibility of cleft lip and palate repair in personal protective equipment (PPE). de Blacam C, Theopold C, Dalli J, Orr DJA, Cahill RA, O'Keefe DA. *J Plast Reconstr Aesthet Surg.* 2020 Aug 22;S1748-6815(20)30378-8. doi: 10.1016/j.bjps.2020.08.047. Online ahead of print. PMID: 32868234
 15. Antimicrobial de-escalation in the critically ill patient and assessment of clinical cure: the DIANA study. De Bus L, Depuydt P, Steen J, Dhaese S, De Smet K, Tabah A, Akova M, Cotta MO, De Pascale G, Dimopoulos G, Fujitani S, Garnacho-Montero J, Leone M, Lipman J, Ostermann M, Paiva JA, Schouten J, Sjövall F, Timsit JF, Roberts JA, Zahar JR, Zand F, Zirpe K, De Waele JJ; DIANA study group. *Intensive Care Med.* 2020 Jul;46(7):1404-1417. doi: 10.1007/s00134-020-06111-5. Epub 2020 Jun 9. PMID: 32519003 Free PMC article.
 16. Respiratory Mechanics and Outcomes in Immunocompromised Patients With ARDS: A Secondary Analysis of the EFRAM Study. Demoule A, Antonelli M, Schellongowski P, Pickkers P, Soares M, Meyhoff T, Rello J, Bauer PR, van de Louw A, Lemiale V, Grimaldi D, Martin-Loeches I, Balik M, Mehta S, Kouatchet A, Barratt-Due A, Valkonen M, Reignier J, Metaxa V, Moreau AS, Burghi G, Mokart D, Mayaux J, Darmon M, Azoulay E; EFRAM Investigators. *Chest.* 2020 Nov;158(5):1947-1957. doi: 10.1016/j.chest.2020.05.602. Epub 2020 Jun 20. PMID: 32569634
 17. The surviving sepsis campaign: basic/translational science research priorities. Deutschman CS, Hellman J, Roca RF, De Backer D, Coopersmith CM; Research Committee of the Surviving Sepsis Campaign. *Intensive Care Med Exp.* 2020 Jul 17;8(1):31. doi: 10.1186/s40635-020-00312-4. PMID: 32676795 Free PMC article.
 18. Predictive Performance of Risk Factors for MDR Pathogens in Nosocomial Pneumonia. Dominedò C, Ceccato A, Niederman M, Cillóniz C, Gabarrús A, Martin-Loeches I, Ferrer M, Antonelli M, Torres A. *Ann Am Thorac Soc.* 2020 Dec 2. doi: 10.1513/AnnalsATS.202002-181OC. Online ahead of print. PMID: 33264575
 19. CT-guided Lung Biopsy: Effect of Biopsy-side Down Position on Pneumothorax and Chest Tube Placement. Drumm O, Joyce EA, de Blacam C, Gleeson T, Kavanagh J, McCarthy E, McDermott R, Beddy P. *Radiology.* 2019 Jul;292(1):190-196. doi: 10.1148/radiol.2019182321. Epub 2019 May 14. PMID: 31084480
 20. Ffrench-O'Carroll R, Feeley T, Tan MH, Magner C, L'Estrange K, Efrimescu CI, O'Connor E, Lyons B, Crowe S. Psychological impact of COVID-19 on staff working in paediatric and adult critical care. *Brit J Anaes.* 10 October 2020.
 21. More on COVID-19 coagulopathy in Caucasian patients. Fogarty H, Townsend L, Ni Cheallaigh C, Bergin C, Martin-Loeches I, Browne P, Bacon CL, Gaule R, Gillett A, Byrne M, Ryan K, O'Connell N, O'Sullivan JM, Conlon N, O'Donnell JS. *Br J Haematol.* 2020 Jun;189(6):1060-1061. doi: 10.1111/bjh.16791. Epub 2020 May 25. PMID: 32400024 Free PMC article. No abstract available.
 22. COVID19 coagulopathy in Caucasian patients. Fogarty H, Townsend L, Ni Cheallaigh C, Bergin C, Martin-Loeches I, Browne P, Bacon CL, Gaule R, Gillett A, Byrne M, Ryan K, O'Connell N, O'Sullivan JM, Conlon N, O'Donnell JS. *Br J Haematol.* 2020 Jun;189(6):1044-1049. doi: 10.1111/bjh.16749. Epub 2020 May 17. PMID: 32330308 Free PMC article.
 23. Clinical management of sepsis can be improved by artificial intelligence: no. Garnacho-Montero J, Martín-Loeches I. *Intensive Care Med.* 2020 Feb;46(2):378-380. doi: 10.1007/s00134-020-05947-1. Epub 2020 Feb 3. PMID: 32016531 No abstract available.
 24. Accuracy of the clinical pulmonary infection score to differentiate ventilator-associated tracheobronchitis from ventilator-associated pneumonia. Gaudet A, Martin-Loeches I,

- Povoa P, Rodriguez A, Salluh J, Duhamel A, Nseir S; TAVeM study group. *Ann Intensive Care*. 2020 Aug 3;10(1):101. doi: 10.1186/s13613-020-00721-4. PMID: 32748025 Free PMC article.
25. Correction to: Atypical pathogens in hospitalized patients with community-acquired pneumonia: a worldwide perspective. Gramegna A, Sotgiu G, Di Pasquale M, Radovanovic D, Terraneo S, Reyes LF, Vendrell E, Neves J, Menzella F, Blasi F, Aliberti S, Restrepo MI; GLIMP Study Group. *BMC Infect Dis*. 2020 Oct 13;20(1):748. doi: 10.1186/s12879-020-05472-y. PMID: 33050889 Free PMC article.
 26. The contribution of frailty, cognition, activity of daily life and comorbidities on outcome in acutely admitted patients over 80 years in European ICUs: the VIP2 study. Guidet B, de Lange DW, Boumendil A, Leaver S, Watson X, Boulanger C, Szczeklik W, Artigas A, Morandi A, Andersen F, Zafeiridis T, Jung C, Moreno R, Walther S, Oeyen S, Scheffold JC, Cecconi M, Marsh B, Joannidis M, Nalapko Y, Elhadi M, Fjølner J, Flaatten H; VIP2 study group. *Intensive Care Med*. 2020 Jan;46(1):57-69. doi: 10.1007/s00134-019-05853-1. Epub 2019 Nov 29. PMID: 31784798 Free PMC article.
 27. Hyde MK, Opozda M, Laurie K, Vincent AD, Oliffe JL, Nelson CJ, Dunn J, Chung E, Gillman M, Manecksha RP, Wittert G, Chambers SK. Men's sexual help-seeking and care needs after radical prostatectomy or other non-hormonal, active prostate cancer treatments. *Support Care Cancer*. 2020 Sep 26. doi: 10.1007/s00520-020-05775-5. Predicting ventilator-associated pneumonia. McEnery T, Martin-Loeches I. *Ann Transl Med*. 2020 Jun;8(11):670. doi: 10.21037/atm.2020.03.173. PMID: 32617290 Free PMC article. No abstract available.
 28. Feasibility of Telephone Follow-Up after Critical Care Discharge. Hodalova S, Moore S, Dowds J, Murphy N, Martin-Loeches I, Broderick J. *Med Sci (Basel)*. 2020 Mar 14;8(1):16. doi: 10.3390/medsci8010016. PMID: 32183263 Free PMC article.
 29. Kane G, Orr D, Pears J, McGuinness J. A novel approach to extensive chest wall reconstruction in a child. *Ann Thorac Surg* 2020.
 30. "Thrombosed Capillary Network in a Full-Thickness Burn". Kennedy S, Cahill KC. *Clinical Case Reports*. 2020 Jun 22;8(10):2080-2081. PMID: 33088560
 31. "Cyanide Poisoning in Inhalation Injuries". Kennedy S, Cahill KC. *Clinical Case Reports*. 2020 Aug 7;8(12):3567-3568. PMID: 33363981
 32. Antimicrobial De-Escalation in the ICU: From Recommendations to Level of Evidence. Lakbar I, De Waele JJ, Tabah A, Einav S, Martin-Loeches I, Leone M. *Adv Ther*. 2020 Jul;37(7):3083-3096. doi: 10.1007/s12325-020-01390-2. Epub 2020 May 27.
 33. Aminoglycosides in Immunocompromised Critically Ill Patients With Bacterial Pneumonia and Septic Shock: A Post-Hoc Analysis of a Prospective Multicenter Multinational Cohort. Lopez R, Rello J, Taccone FS, Salem OBH, Bauer PR, Séguin A, van de Louw A, Metaxa V, Klouche K, Martin-Loeches I, Montini L, Mehta S, Bruneel F, Lisboa T, Viana W, Pickkers P, Russell L, Rusinova K, Kouatchet A, Barbier F, Mokart D, Azoulay E, Darmon M. *Shock*. 2020 Dec;54(6):731-737. doi: 10.1097/SHK.0000000000001553. PMID: 32496415. PMID: 32462606 Free PMC article. Review.
 34. Invasive candidiasis in critical care: challenges and future directions. Logan C, Martin-Loeches I, Bicanic T. *Intensive Care Med*. 2020 Nov;46(11):2001-2014. doi: 10.1007/s00134-020-06240-x. Epub 2020 Sep 29. PMID: 32990778 Review.
 35. Pulmonary infections complicating ARDS Luyt CE, Bouadma L, Morris AC, Dhanani JA, Kollef M, Lipman J, Martin-Loeches I, Nseir S, Ranzani OT, Roquilly A, Schmidt M, Torres A, Timsit JF. *Intensive Care Med*. 2020 Dec;46(12):2168-2183. doi: 10.1007/s00134-020-06292-z. Epub 2020 Nov 11. PMID: 33175277 Free PMC article. Review.
 36. Aspiration Risk Factors, Microbiology, and Empiric Antibiotics for Patients Hospitalized With Community-Acquired Pneumonia. Marin-Corral J, Pascual-Guardia S, Amati F, Aliberti S, Masclans JR, Soni N, Rodriguez A, Sibila O, Sanz F, Sotgiu G, Anzueto A, Dimakou K, Petrino R, van de Garde E, Restrepo MI; GLIMP investigators. *Chest*. 2021 Jan;159(1):58-72. doi: 10.1016/j.chest.2020.06.079. Epub 2020 Jul 17. PMID: 32687909
 37. ICU-acquired pneumonia in immunosuppressed patients with acute hypoxemic respiratory failure: A post-hoc analysis of a prospective international cohort study. Martin-Loeches I, Darmon M, Demoule A, Antonelli M, Schellongowski P, Pickkers P, Soares M, Rello J, Bauer P, van de Louw A, Lemiale V, Grimaldi D, Balik M, Mehta S, Kouatchet A, Barratt-Due A, Valkonen M, Reignier J, Metaxa V, Moreau AS, Burghi G, Mokart D, Azoulay E; Efraim investigators and the Nine-I study group. *J Crit Care*. 2020 Sep 29;S0883-9441(20)30706-1. doi: 10.1016/j.jcrc.2020.09.027. Online ahead of print. PMID: 33012580
 38. Severe infections in neurocritical care. Martin-Loeches I, Blake A, Collins D. *Curr Opin Crit Care*. 2020 Dec 30; Publish Ahead of Print. doi: 10.1097/MCC.0000000000000796. Online ahead of print. PMID: 33395081
 39. The importance of airway and lung microbiome in the critically ill. Martin-Loeches I, Dickson R, Torres A, Hanberger H, Lipman J, Antonelli M, de Pascale G, Bozza F, Vincent JL, Murthy S, Bauer M, Marshall J, Cilloniz C, Bos LD. *Crit Care*. 2020 Aug 31;24(1):537. doi: 10.1186/s13054-020-03219-4. PMID: 32867808 Free PMC article. Review.
 40. Strategies for implementation of a multidisciplinary approach to the treatment of nosocomial infections in critically ill patients. Martin-Loeches I, Metersky M, Kalil A, Pezzani MD, Torres A. *Expert Rev Anti Infect Ther*. 2020 Dec 14:1-9. doi: 10.1080/14787210.2021.1857730. Online ahead of print. PMID: 33249874
 41. Ceftolozane and tazobactam for the treatment of hospital acquired pneumonia. Martin-Loeches I, Bisanti A, Diaz E, Rodriguez A. *Expert Rev Anti Infect Ther*. 2020 Dec;18(12):1177-1185. doi: 10.1080/14787210.2020.1794816. Epub 2020 Jul 21. PMID: 32662691
 42. Focus on infection. Martin-Loeches I, Povoa P, Poulakou G. *Intensive Care Med*. 2020 Apr;46(4):787-789. doi: 10.1007/s00134-020-05995-7. Epub 2020 Mar 10. PMID: 32157355 Free PMC article. No abstract available.
 43. "Thumb Autoamputation Following Tourniquet Syndrome". McGrath RB, Cahill KC, Eadie PA, Harty SB. *BMJ Case Reports*. 2020 March 17; 13(3). PMID: 32188608
 44. Acute respiratory failure in immunocompromised patients: outcome and clinical features according to neutropenia status. Mokart D, Darmon M, Schellongowski P, Pickkers P, Soares M, Rello J, Bauer PR, van de Louw A, Lemiale V, Taccone FS, Martin-Loeches I, Salluh J, Rusinova K, Mehta S, Antonelli M, Kouatchet A, Barratt-Due A, Valkonen M, Landburg PP, Bukan RB, Pène F, Metaxa V, Burghi G, Saillard C, Nielsen LB, Canet E, Bisbal M, Azoulay E; Efraim investigators and the Nine-I study group.
 45. *Ann Intensive Care*. 2020 Oct 22;10(1):146. doi: 10.1186/s13613-020-00764-7. PMID: 33090310 Free PMC article.
 46. Current Concepts in Community and Ventilator Associat-

- ed Lower Respiratory Tract Infections in ICU Patients. *Martin-Loeches I. Antibiotics (Basel)*. 2020 Jul 5;9(7):380. doi: 10.3390/antibiotics9070380. PMID: 32635601 Free PMC article. Review.
47. A way towards ventilator-associated lower respiratory tract infection research. *Martin-Loeches I, Povoia P, Nseir S. Intensive Care Med*. 2020 Jul;46(7):1504-1505. doi: 10.1007/s00134-020-06101-7. Epub 2020 May 25. PMID: 32451575 Free PMC article. No abstract available.
 48. Acute Respiratory Failure Outcomes in Patients with Hematologic Malignancies and Hematopoietic Cell Transplant: A Secondary Analysis of the EFRAIM Study. *Munshi L, Darmon M, Soares M, Pickkers P, Bauer P, Meert AP, Martin-Loeches I, Staudinger T, Pene F, Antonelli M, Barratt-Due A, Demoule A, Metaxa V, Lemiale V, Taccone F, Mokart D, Azoulay E, Mehta S. Biol Blood Marrow Transplant*. 2020 Oct 2:S1083-8791(20)30628-5. doi: 10.1016/j.bbmt.2020.09.035. Online ahead of print. PMID: 33011289
 49. O'Meara S, Bhatt NR, Flynn RJ, Manecksha RP, Thomas AZ. Bladder cancer in Ireland: a 21-year review. *Ir J Med Sci*. 2020 Jul 29. doi: 10.1007/s11845-020-02318-z.
 50. Influenza management with new therapies. *O'Sullivan S, Torres A, Rodriguez A, Martin-Loeches I. Curr Opin Pulm Med*. 2020 May;26(3):215-221. doi: 10.1097/MCP.0000000000000667. PMID: 32068576 Review.
 51. Antifungal use in the surgical ICU patient. *Póvoia P, Coelho L, Nora D, Martin-Loeches I. Curr Opin Anaesthesiol*. 2020 Apr;33(2):131-138. doi: 10.1097/ACO.0000000000000813. PMID: 31789904 Review.
 52. Update in COVID-19 in the intensive care unit from the 2020 HELLENIC Athens International symposium. *Rello J, Belliato M, Dimopoulos MA, Giamarellos-Bourboulis EJ, Jaksic V, Martin-Loeches I, Mporas I, Pelosi P, Poulakou G, Pournaras S, Tamae-Kakazu M, Timsit JF, Waterer G, Tejada S, Dimopoulos G. Anaesth Crit Care Pain Med*. 2020 Dec;39(6):723-730. doi: 10.1016/j.accpm.2020.10.008. Epub 2020 Oct 22. PMID: 33172592 Free PMC article. Review.
 53. The effect of renal replacement therapy and antibiotic dose on antibiotic concentrations in critically ill patients: Data from the multinational SMARRT Study. *Roberts JA, Joynt G, Lee A, Choi G, Bellomo R, Kanji S, Mudaliar MY, Peake SL, Stephens D, Taccone FS, Ulldemolins M, Valkonen MM, Agbeve J, Baptista JP, Bekos V, Boidin C, Brinkmann A, Buizen L, Castro P, Cole CL, Creteur J, De Waele JJ, Deans R, Eastwood GM, Escobar L, Gomersall C, Gresham R, Jamal JA, Kluge S, König C, Koulouras VP, Lassig-Smith M, Laterre PF, Lei K, Leung P, Lefrant JY, Llauroadó-Serra M, Martin-Loeches I, Mat Nor MB, Ostermann M, Parker SL, Rello J, Roberts DM, Roberts MS, Richards B, Rodríguez A, Roehr AC, Roger C, Seoane L, Sinnenollareddy M, Sousa E, Soy D, Spring A, Starr T, Thomas J, Turnidge J, Wallis SC, Williams T, Wittebole X, Zikou XT, Paul S, Lipman J. Clin Infect Dis*. 2020 Mar 9;ciaa224. doi: 10.1093/cid/ciaa224. Online ahead of print. PMID: 32150603
 54. Impact of Chronic Obstructive Pulmonary Disease on Incidence, Microbiology and Outcome of Ventilator-Associated Lower Respiratory Tract Infections. *Rouzé A, Boddaert P, Martin-Loeches I, Povoia P, Rodriguez A, Ramdane N, Salluh J, Houard M, Nseir S. Microorganisms*. 2020 Jan 23;8(2):165. doi: 10.3390/microorganisms8020165. PMID: 31979375 Free PMC article.
 55. What is new in non-ventilated ICU-acquired pneumonia? *Saied W, Martin-Loeches I, Timsit JF. Intensive Care Med*. 2020 Mar;46(3):488-491. doi: 10.1007/s00134-019-05859-9. Epub 2020 Jan 14. PMID: 31938826 Free PMC article. No abstract available.
 56. *Silva R, Moran B, Russell NM, Fahey C, Vlainic T, Manecksha RP, Finn SP, Brennan DJ, Gallagher WM, Perry AS. Evaluating liquid biopsies for methylomic profiling of prostate cancer. Epigenetics*. 2020 Jun-Jul;15(6-7):715-727. doi: 10.1080/15592294.2020.1712876.
 57. *Sullivan JV, Dziewulski P, Shelley OP. Should the beard be considered as a separate facial unit? Burns*. 2020 Sep;46(6):1474-1475. doi: 10.1016/j.burns.2020.02.002. Epub 2020 May 29. PMID: 32482378.
 58. *Invasive Pulmonary Aspergillosis in Ventilator-associated Pneumonia: The Hidden Enemy? Torres A, Martin-Loeches I. Am J Respir Crit Care Med*. 2020 Oct 15;202(8):1071-1073. doi: 10.1164/rccm.202006-2605ED. PMID: 32730104 Free PMC article. No abstract available.
 59. *Hospital-Acquired Pneumonia. Spanish Society of Pulmonology and Thoracic Surgery (SEPAR) Guidelines. 2019 Update. Torres A, Barberán J, Ceccato A, Martin-Loeches I, Ferrer M, Menéndez R, Rigau D. Arch Bronconeumol*. 2020 Mar;56 Suppl 1:11-19. doi: 10.1016/j.arbres.2020.01.015. Epub 2020 Mar 1. PMID: 32127229 English, Spanish.
 60. *Persistent fatigue following SARS-CoV-2 infection is common and independent of severity of initial infection. Townsend L, Dyer AH, Jones K, Dunne J, Mooney A, Gaffney F, O'Connor L, Leavy D, O'Brien K, Dowds J, Sugrue JA, Hopkins D, Martin-Loeches I, Ni Cheallaigh C, Nadarajan P, McLaughlin AM, Bourke NM, Bergin C, O'Farrelly C, Bannan C, Conlon N. PLoS One*. 2020 Nov 9;15(11):e0240784. doi: 10.1371/journal.pone.0240784. eCollection 2020. PMID: 33166287 Free PMC article.
 61. *Persistent fatigue following SARS-CoV-2 infection is common and independent of severity of initial infection. Townsend L, Dyer AH, Jones K, Dunne J, Mooney A, Gaffney F, O'Connor L, Leavy D, O'Brien K, Dowds J, Sugrue JA, Hopkins D, Martin-Loeches I, Ni Cheallaigh C, Nadarajan P, McLaughlin AM, Bourke NM, Bergin C, O'Farrelly C, Bannan C, Conlon N. PLoS One*. 2020 Nov 9;15(11):e0240784. doi: 10.1371/journal.pone.0240784. eCollection 2020. PMID: 33166287 Free PMC article.
 62. *Prevalence and Outcomes of Infection Among Patients in Intensive Care Units in 2017. Vincent JL, Sakr Y, Singer M, Martin-Loeches I, Machado FR, Marshall JC, Finfer S, Pelosi P, Brazzi L, Aditjaningsih D, Timsit JF, Du B, Wittebole X, Máca J, Kannan S, Gorordo-Delsol LA, De Waele JJ, Mehta Y, Bonten MJM, Khanna AK, Kollef M, Human M, Angus DC; EPIC III Investigators. JAMA*. 2020 Apr 21;323(15):1478-1487. doi: 10.1001/jama.2020.2717. PMID: 32207816 Free PMC article.
 63. *Update of the treatment of nosocomial pneumonia in the ICU. Zaragoza R, Vidal-Cortés P, Aguilar G, Borges M, Diaz E, Ferrer R, Maseda E, Nieto M, Nuvials FX, Ramirez P, Rodriguez A, Soriano C, Veganzones J, Martín-Loeches I. Crit Care*. 2020 Jun 29;24(1):383. doi: 10.1186/s13054-020-03091-1. PMID: 32600375 Free PMC article. Review.
 64. *Mehanna H, Hardman JC, Shenson JA, Abou-Foul AK, Topf MC, AlFalasi M, et al. Recommendations for head and neck surgical oncology practice in a setting of acute severe resource constraint during the COVID-19 pandemic: an international consensus. The Lancet Oncology*. 2020.
 65. *Conlon B, Langguth B, Hamilton C, Hughes S, Meade E, Connor CO, et al. Bimodal neuromodulation combining sound and tongue stimulation reduces tinnitus symptoms in a large randomized clinical study. Sci Transl Med*. 2020;12(564)
 66. *Lang B, Hintze J, Conlon B. Coronavirus disease 2019 and*

- sudden sensorineural hearing loss. *J Laryngol Otol.* 2020;1-3
67. Hintze JM, Fitzgerald CW, Lang B, Lennon P, Kinsella JB. Mortality risk in post-operative head and neck cancer patients during the SARS-Cov2 pandemic: early experiences. *European Archives of Oto-Rhino-Laryngology.* 2020;1-4.
 68. Hintze J, Fitzgerald C, Lang B, O'Shea J, Barry C, Brennan S, et al. Tracheostomy stomal seeding following oral cavity resection. *Oral Oncology.* 2020;105097.
 69. Beecher SM, Lennon P, O'Shaughnessy M, Barry CP. Recurrent Ameloblastoma Involving Fibula Neo-mandible: Management with Digital Planning and Reconstruction Using a Contralateral Free Fibula Flap. *Cureus.* 2020;12(4).
 70. Barry C, MacDhabheid C, Tobin K, Stassen L, Lennon P, Toner M, et al. 'Out of house' virtual surgical planning for mandible reconstruction after cancer resection: is it oncologically safe? *International Journal of Oral and Maxillofacial Surgery.* 2020.
 71. Woods RSR, Pilson Q, Kharytaniuk N, Cassidy L, Khan R, Timon CVI. Outcomes of endoscopic orbital decompression for graves' ophthalmopathy. *Ir J Med Sci.* 2020;189(1):177-83.
 72. O'Connor M, Waller J, Gallagher P, O'Donovan B, Clarke N, Keogh I, et al. Barriers and facilitators to discussing HPV with head and neck cancer patients: A qualitative study using the theoretical domains framework. *Patient Educ Couns.* 2020.
 73. Crotty TJ, Keane E, Cousins G, Brennan S, Kinsella J, Moran T. Sexual Behaviour and Human Papillomavirus-Positive Oral Cavity and Oropharyngeal Cancer: An Irish Perspective. *Cureus.* 2020;12(11):e11410.
 74. COVIDSurg Collaborative. Delaying surgery for patients with a previous SARS-CoV-2 infection. *Br J Surg.* 2020;107(12):e601-e2.
 75. COVIDSurg Collaborative. Head and neck cancer surgery during the COVID-19 pandemic: An international, multi-center, observational cohort study. *Cancer.* 2020.
 76. McKendry C, Duff S, Huang Y, Redha M, Scanlon A, Abu Saadeh F, Gleeson N, O Leary JJ, Norris L, O'Toole S. The value of HE4, D-dimer, and fibrinogen compared to CA125 alone in triaging women presenting with pelvic masses: a retrospective cohort study *Journal: Acta Obstetrica et Gynecologica Scandinavica* 2021; DOI: 10.1111/aogs.14126 Mc Kendry K, Duff S, Huang Y, Redha M, Scanlon A, Abu Saadeh F, Gleeson N, O Leary J, O Toole S. A novel biomarker panel of HE4 and D-dimer improves ovarian cancer diagnosis in postmenopausal women presenting with symptomatic pelvic masses: a prospective cohort study *Preprinted on Authorea://DOI: 10.22541/au.159285543.32048696*
 77. Shahabuddin Y., Gleeson N., Maguire PJ. Surgeon-administered ilioinguinal and pudendal nerve blocks for vulval oncology surgery: An observational evaluation study with Visual Analogue Pain Scoring *Preprinted on Authorea https://doi.org/10.22541/au.160527249.97875924/v1*
 78. O'Toole S, Huang Y, Norris L, Foley M, Shireen R, McDonald S, Kamran W, Ibrahim N, Ward M, Thompson C, Murphy C, D'Arcy T, Farah N, Heron E, O'Leary JJ, Abu Saadeh F, Gleeson N. HE4 and CA125 as preoperative risk stratifiers for lymph node metastasis in endometrioid carcinoma of the endometrium: a retrospective study in a cohort with histological proof of lymph node status *Gynecologic Oncology Ms. No.: GYN-20-1270R1*
 79. Kalachand R, O'Riain C, M, Sinead Toomey S, Carr A, Timms KM, O'Toole S, Bates M, O Leary JJ, Gleeson N, O'Donnell D, Farrelly A, Hennessy BT. Prevalence of tumour BRCA1 and BRCA2 dysfunction in unselected patients with ovarian cancer *Obstetrics & Gynecology Science* 2020; 63(5): 643-654. DOI: 10.5468/ogs.20033.
 80. Norris LA, Ward MP, O Toole SA, Marchocki Z, Ibrahim N, Khashan AS, AbuSaadeh F, Gleeson N Article: A risk score for prediction of venous thromboembolism in gynaecological cancer - the thrombogyn score *Journal: Research and Practice in Thrombosis and Haemostasis* 2020 <https://dx.doi.org/10.1002/rth2.12342>
 81. Ward M, Mohamed B, Kane L, Bates M, Berghoff J, Spillane C, Kelly T, Kennedy J, Abu Saadeh F, Hokamp K, Gleeson N, Sheils O, Martin C, Gallagher M, Hannify S, Dixon EP, O'Toole S, O'Leary JJ. Influence of platelets and neutrophils on circulating tumour cells. *Cancer Research* 2020; 80 (Suppl 16): 764
 82. Mohamed B, Ward M, Bates M, Spillane C, Kelly T, Martin C, Gallagher M, Kennedy J, Abu Saadeh F, Gleeson N, Brooks DA, Selemidis S, Hannify S, Dixon EP, O'Toole S, O'Leary JJ. Circulating tumour cells in breast and ovarian cancer. *International Journal of Gynecologic Cancer* 2020, 30 (Suppl 4): A132
- Invited Papers & Chapters**
- Freyne A, Murtagh N, Gleeson N Lymphoedema in Gynaecological Cancer In: *Cancer Professional* 2020; January
- Research and Case Presentations to Learned Societies: Conference Proceedings**
- O' Donoghue N, O'Connor B, Thompson C, Gleeson N Prevalence of cachexia in treatment naive patients with gynaecological cancer *International Society on Gynecological Oncology Rome* Sept 2020
 - Dolan S, Ryan M, Maguire P, Gleeson N Ablative Renal artery embolisation in the setting of Gynaecological Malignancy, *European Congress of Interventional Oncology, Nice, France, April* 2020
 - Ward MP, Mohamed BM, Kane L, Bates M, Berghoff J, Spillane C, John B, Kelly T, Kennedy J, Saadeh FA, Gleeson N, Hokamp K, Sheils O, Martin C, Gallagher M, Hannify S, Dixon EP, O'Toole SA, O'Leary JJ The influence of platelets and neutrophils on circulating tumour cells *American Association of Cancer Research San Diego* 2020.
- Oral Presentations:**
- Dr Enda O'Connor**
- Quality and Undergraduate Medical Education (Invited workshop). *Irish Network of Healthcare Educators Annual Conference, February 14th* 2020
 - COVID-19. A "learnable moment" in medical education. *Royal College of Physicians of Ireland. Medical Education in the Pandemic Webinar, 8 July* 2020
 - Who to refer for mechanical support – Group discussion member. *Irish Advance Heart Failure Webinar Series, Mater Misericordiae Hospital, Dublin, October 20th* 2020
 - The ICU View of the COVID-19 pandemic. *TCD Med Day oral presentation November 30* 2020.
- Dr C de Blacam**
- [Creating COVID-proof opportunities: Domestic Fellowships and Succession Planning](#) **C de Blacam** RCSI Invited Webinar, October 2020.
- Gynaecology**
- 27th November 2020 - Surgeon-administered Ilioinguinal and Pudendal Nerve blocks for Vulval Oncology Surgery: An evaluation with Visual Analogue Pain Scoring *Shahabuddin Y., Gleeson N., Maguire PJ* **3rd Prize Oral Presentation at**

Poster Presentations

Dr C de Blacam

1. [Patient-reported outcomes of pharyngeal flap surgery for velopharyngeal dysfunction.](#) E Oderoha, C de Blacam, A O'Dwyer, L Duggan, D Orr
2. Royal Academy of Medicine in Ireland Student Research Medal and Awards
Dublin, November 2020

Gynaecology

- Floyd R., Moore R., Cadoo K., D'Arcy T., Maguire A., O'Riain C., A Case Report of Small Cell Carcinoma of the Ovary of Hypercalcaemic Type (SCCOHT) with SMARCA4 loss [poster presentation]. JOGS Annual Scientific Conference; November 2020; Online
- 10-13th September 2020 - Surgeon-administered Ilioinguinal and Pudendal Nerve blocks for Vulval Oncology Surgery: An evaluation with Visual Analogue Pain Scoring Shahabuddin Y., Gleeson N., Maguire PJ ePoster for xDigital Annual Global Meeting of the International Gynaecologic Cancer Society (IGCS)
- Freyne A, Murtagh C, Gleeson N Lymphoedema in Gynaecological Cancers. Invited editorial for Cancer Professional January 2020
- Daly, Niamh; DeMaio, Alison; Daly, Ronan; Saadeh, Feras Abu; Laparoscopic Boari flap formation in advanced ovarian carcinoma Int J Gynecol Cancer. 2020 Jul;30(7):1081. doi: 10.1136/ijgc-2020-001265. Epub 2020 May 28.
- Farrell, Robert Adam; Maguire, Patrick J; Freyne, Aoife; Siddiki, Shmaila, Robert Adam; Maguire, Patrick J; Freyne, Aoife; Siddiki, Shmaila; Saadeh, Feras Abu; Use of an artificial mammary implant in total pelvic exenteration International Journal of Gynecologic Cancer ijgc-2020-002304

Laboratory Medicine (LabMed)

Microbiology Laboratory (including IMRL, NMRSAL and GCLM)

1. McManus BA, Aloba BK, Earls MR, Brennan GI, O'Connell B, Monecke S, Ehrlich R, Shore AC, Coleman DC. Multiple distinct outbreaks of Pantone-Valentine leucocidin-positive community-associated methicillin-resistant *Staphylococcus aureus* in Ireland investigated by whole-genome sequencing. J Hosp Infect. 2021 Feb; 108:72-80. doi: 10.1016/j.jhin.2020.11.021. Epub 2020 Nov 28. PMID: 33259881.
2. McManus BA, Daly B, Polyzois I, Wilson P, Brennan GI, Fleming TE, Grealy LD, Healy ML, Coleman DC. Comparative Microbiological and Whole-Genome Analysis of *Staphylococcus aureus* Populations in the Oro-Nasal Cavities, Skin and Diabetic Foot Ulcers of Patients With Type 2 Diabetes Reveals a Possible Oro-Nasal Reservoir for Ulcer Infection. Front Microbiol. 2020 Apr 30;11: 748. doi: 10.3389/fmicb.2020.00748. PMID: 32425909; PMCID: PMC7212350.
3. Egan SA, Shore AC, O'Connell B, Brennan GI, Coleman DC. Linezolid resistance in *Enterococcus faecium* and *Enterococcus faecalis* from hospitalized patients in Ireland: high prevalence of the MDR genes *optrA* and *poxTA* in isolates with diverse genetic backgrounds. J Antimicrob Chemother. 2020 Jul 1;75(7):1704-1711. doi: 10.1093/jac/dkaa075. PMID: 32129849; PMCID: PMC7303821.
4. Egan SA, Corcoran S, McDermott H, Fitzpatrick M, Hoynes A, McCormack O, Cullen A, Brennan GI, O'Connell B, Coleman DC. Hospital outbreak of linezolid-resistant and vancomycin-resistant ST80 *Enterococcus faecium* harbouring an *optrA*-encoding conjugative plasmid investigated by whole-genome sequencing. J Hosp Infect. 2020 Aug;105(4):726-735.

doi: 10.1016/j.jhin.2020.05.013. Epub 2020 May 19. PMID: 32439548.

5. Abbott, Y., Efstratiou, A., Brennan, G., Hallanan, S., Leggett, B., Leonard, F.C., Markey, B.K., Tuite, C. and Fry, N.K. (2020), Toxigenic *Corynebacterium* ulcerans associated with upper respiratory infections in cats and dogs. J Small Anim Pract, 61: 554-560. <https://doi.org/10.1111/jsap.13185>.
6. Redondo N, Mok S, Montgomery L, Flanagan PR, McNamara E, Smyth EG, O Sullivan N, Schaffer K, Rogers TR, Fitzgibbon MM (2020) Genomic analysis of an Irish population of *Mycobacterium abscessus* complex collected between 2006 and 2017. JCM 10.1128/JCM.00295-20

Blood Transfusion Laboratory

1. Flegel, W. A., F. F. Wagner and O. D. DP (2020). "Anti-D immunization rates may exceed 50% in many clinically relevant settings, despite varying widely among patient cohorts." Transfusion 60(5): 1109-1110.
2. O'Donoghue, D., P. V. Jenkins, R. T. McGrath, L. Preston, S. P. Field, S. E. Ward, J. M. O'Sullivan and J. S. O'Donnell (2020) Expresser phenotype determines ABO(H) blood group antigen loading on platelets and von Willebrand factor. Sci Rep 10(1): 18366.

Cancer Molecular Diagnostics Laboratory

1. Awadh M, O'Mahony J, Ryan C, Quinn F, Bacon L, Ravi N & Flavin R (2020) Epstein-Barr virus-positive mucocutaneous ulcer: a unique case occurring in association with cholelithiasis in a gallbladder. JGH Open, 5, 149-150.
2. Baccarani M, Iacobucci I, Chiaretti S, Foa R, Balasubramanian P, Paietta E, Foroni L, Jeromin S, Izzo B, Spinelli O, Varma N, Menif S, Terragna C, Seth T, Bidet A, Coriu D, Lunghi F, Mayer J, Scappini B, Langabeer S, Maier J, Burt E, Candoni A, Albano F, Luppi M, Zupan I, Lion T, Zadro R, di Raimondo F, Poopack B, Rege-Cambrin G, Annunziata M, Ayala A, Salinas-Viedma V, Prado AI, Milner B, Galimberti S, Janssen J, Polli V, Comba L, Borsellino B, Annibaldi O, Crugnola M & Passamonti F (2020) In Ph+ BCR-ABL1 p210+ acute lymphoblastic leukemia the e13a2 (b2a2) transcript is prevalent. Leukemia, 34, 929-931.
3. Crampe M, Langabeer SE, O'Brien D, Ryan E & Bacon CL (2020) Philadelphia chromosome-positive acute lymphoblastic leukemia with an e14a3 BCR-ABL1 fusion: the role of molecular monitoring. Hematology/Oncology & Stem Cell Therapy, 13, 166-167.
4. Flynn L, Barr MP, Baird AM, Smyth P, Casey OM, Blackshields G, Greene J, Pennington SR, Hams E, Fallon PG, O'Leary J, Sheils O & Finn SP (2020) Prostate cancer-derived holoclones: a novel and effective model for evaluating cancer stemness. Science Reports, 10, 11329.
5. Kearney L, Crampe M, Conneally E, Krawczyk J, Kumar S, Murphy PT, Mykytiv V, Ryan MF & Langabeer SE (2020) Molecular responses in e19a2 BCR-ABL1 chronic myeloid leukemia. Leukemia Research Reports, 13, 100195.
6. Kearney L, Crampe M & Langabeer SE (2020) Frequency and spectrum of atypical BCR-ABL1 transcripts in chronic myeloid leukemia. Experimental Oncology, 42, 78-79.
7. Kearney L, Lee Tokar L, Flynn C, Mykytiv V, Murphy K & Langabeer SE (2020) Repeat JAK2 V617F testing in patients with suspected essential thrombocythaemia. Journal of Clinical Pathology, 73, 772.
8. Langabeer SE (2020) The role of a low erythropoietin level in the diagnosis of JAK2 exon 12-mutated polycythemia vera. Blood Cells, Molecules & Diseases, 80, 102377.
9. Langabeer SE (2020) Absence of polycythemia vera in post-renal transplant erythrocytosis. Experimental & Clinical Transplantation, 18, 657-658.
10. Langabeer SE (2020) The JAK2 V617F mutation in breast can-

cer? *The Breast Journal*, 26, 592.

11. Langabeer SE (2020) Concurrent chronic myeloid leukemia and CALR-mutated myeloproliferative neoplasm. *EXCLI Journal*, 19, 86-88.
12. Langabeer SE (2020) Molecular screening for an underlying myeloproliferative neoplasm in patients with stroke: who and how? *Blood Research*, 55, 67-68.
13. Langabeer SE (2020) Can post-splenectomy thrombocytosis mask essential thrombocythaemia? *EXCLI Journal*, 19, 773-774.
14. Langabeer SE (2020) Screening for an underlying myeloproliferative neoplasm in patients with thrombocytosis post-induction chemotherapy for acute myeloid leukemia. *Leukemia Research Reports*, 14, 100218.
15. Langabeer SE (2020) CALR mutations in myeloproliferative neoplasms: an unfolding story. *EXCLI Journal*, 19, 1399-1400.
16. Langabeer SE (2020) Molecular responses in chronic myeloid leukemia with atypical BCR-ABL1 transcripts: is digital PCR the answer? *International Journal of Hematology Research*, 5, 191-192.
17. Langabeer SE, Faryal R, O'Dwyer M & Ní Loingsigh S (2020) Patient-initiated discontinuation of tyrosine kinase inhibitor for chronic myeloid leukemia. *Case Reports in Hematology*, 2020, 9571691.
18. Langabeer SE, Lee Tokar L, Kearney L, O'Brien C, Thavarajah K, Barrett A, McManus J & O'Leary H (2020) Prefibrotic myelofibrosis presenting with multiple cerebral embolic infarcts and the rare MPL W515S mutation. *Case Reports in Hematology*, 2020, 8375986.
19. O'Donghaile D, Jenkins PV, McGrath RT, Preston L, Field SP, Ward SE, O'Sullivan JM & O'Donnell JS (2020) Expressor phenotype determines ABO(H) blood group antigen loading on platelets and von Willebrand factor. *Science Reports*, 10, 18366.
20. Robert Ta, Chris Santini, Patricia Gou, Greg Lee, Yu Chuan Tai, Cathal O'Brien, Marcel Fontecha, Cliona Grant, Larry Bacon, Stephen Finn, Elisabeth Vandenberghe, Fiona Quinn, Rajiv Dua, Richard Flavin (2020) Molecular Subtyping of Diffuse Large B-Cell Lymphoma Using a Novel Quantitative Reverse Transcription-polymerase Chain Reaction Assay. *The Journal of Molecular Diagnostics* 23(3) 323-340
21. C Drumm, F Lynch, M McMennamin, S Finn, C O'Brien, B Wynne. A case of recurrent melanoma with an NTRK3 fusion gene (2020). *The British Journal of Dermatology* 183; 81-82
22. Sharon A O'Toole, Cathy Spillane, Yanmei Huang, Marie C Fitzgerald, Brendan Ffrench, Bashir Mohamed, Mark Ward, Michael Gallagher, Tanya Kelly, Cathal O'Brien, Carmel Ruttle, Anna Bogdanska, Cara Martin, Dorinda Mullen, Elizabeth Connolly, Sarah A McGarrigle, John Kennedy, John J O'Leary. Circulating tumour cell enumeration does not correlate with Miller-Payne grade in a cohort of breast cancer patients undergoing neoadjuvant chemotherapy (2020) *Breast Cancer Research and Treatment* 181;571-580

Immunology Laboratory

1. Fogarty H, Townsend L, Ni Cheallaigh C, Bergin C, Martin-Loeches I, Browne P, Bacon CL, Gaule R, Gillett A, Byrne M, Ryan K, O'Connell N, O'Sullivan JM, Conlon N, O'Donnell JS. (2020) COVID19 coagulopathy in Caucasian patients. *Br J Haematol*. 2020 Jun;189(6):1044-1049. doi: 10.1111/bjh.16749. Epub 2020 May 17.
2. Fogarty H, Townsend L, Ni Cheallaigh C, Bergin C, Martin-Loeches I, Browne P, Bacon CL, Gaule R, Gillett A, Byrne M, Ryan K, O'Connell N, O'Sullivan JM, Conlon N, O'Donnell JS. (2020) More on COVID-19 coagulopathy in Caucasian patients. *Br J Haematol*. Jun;189(6):1060-1061. doi: 10.1111/bjh.16791. Epub 2020 May 25
3. Townsend L, Dyer AH, Jones K, Dunne J, Mooney A, Gaffney F, O'Connor L, Leavy D, O'Brien K, Dowds J, Sugrue JA,

Hopkins D, Martin-Loeches I, Ni Cheallaigh C, Nadarajan P, McLaughlin AM, Bourke NM, Bergin C, O'Farrelly C, Bannan C, Conlon (2020) Persistent fatigue following SARS-CoV-2 infection is common and independent of severity of initial infection. *N.PLoS One* Nov 9;15(11):e0240784. doi: 10.1371/journal.pone.0240784. eCollection 2020

4. Dyer AH, McKenna L, Batten I, Jones K, Widdowson M, Dunne J, Conlon N, Reilly R, Woods CP, O'Neill D, Gibney J, Bourke NM, Kennelly SP. (2020) Peripheral Inflammation and Cognitive Performance in Middle-Aged Adults With and Without Type 2 Diabetes: Results From the ENBIND Study. *Front Aging Neurosci*. Nov 30;12: 605878. doi: 10.3389/fnagi.2020.605878. eCollection 2020. PMID: 33424582 Free PMC article
5. Moloney PB, Hutchinson S, Heskin J, Mulcahy F, Langan Y, Conlon NP, Linas BP, Takahashi C, Cervantes-Arslanian AM. (2020) Possible N-methyl-D-aspartate receptor antibody-mediated encephalitis in the setting of HIV cerebrospinal fluid escape. *J Neurol*. May;267(5):1348-1352. doi: 10.1007/s00415-019-09693-3. Epub 2020 Jan 20. PMID: 31960135
6. Kelleher E, McNamara P, Dunne J, Fitzmaurice B, Heron EA, Whitty P, Walsh R, Mooney C, Hogan D, Conlon N, Gill M, Vincent A, Doherty CP, Corvin A. (2020) Prevalence of N-Methyl-d-Aspartate Receptor antibody (NMDAR-Ab) encephalitis in patients with first episode psychosis and treatment resistant schizophrenia on clozapine, a population based study. *Schizophr Res*. Aug;222: 455-461. doi: 10.1016/j.schres.2019.11.023. Epub 2020 Jun 1. PMID: 32499165
7. King C, Judge C, Byrne A, Conlon N. (2020) Googling Allergy in Ireland: Content Analysis. *J Med Internet Res*. May 13;22(5):e16763. doi: 10.2196/16763. PMID: 32401220 Free PMC article.

Histopathology Laboratory

1. Allott EH, Ebot EM, Stopsack KH, Gonzalez-Feliciano AG, Markt SC, Wilson KM, Ahearn TU, Gerke TA, Downer MK, Rider JR, Freedland SJ, Lotan TL, Kantoff PW, Platz EA, Loda M, Stampfer MJ, Giovannucci E, Sweeney CJ, Finn SP, Mucci LA. Statin Use Is Associated with Lower Risk of PTEN-Null and Lethal Prostate Cancer. *Clin Cancer Res*. 2020 Mar 1;26(5):1086-1093. doi: 10.1158/1078-0432.CCR-19-2853. PMID: 31754047
2. Mansoor N, McKenna L, Molloy O, Smyth E, Flavin R, Ryan C, Quinn J, Roche M. (2020) Emergence of lymphomatoid papulosis during treatment with brentuximab vedotin. *Int J Dermatol*. Sep;59(9):e332-e334. doi: 10.1111/ijd.15009. Epub 2020 Jun 23. PMID: 32578212.
3. Fogarty H, Dowling A, O'Brien D, Langabeer S, Bacon CL, Flavin R, O'Dwyer M, Hennessy B, O'Leary H, Crotty G, Henderson R, Nolan J, Thornton P, Vandenberghe E, Quinn F. (2020) Biclinal lymphoproliferative disorders: another association with NOTCH1-mutated chronic lymphocytic leukaemias. *Ir J Med Sci*. Oct 17. doi: 10.1007/s11845-020-02386-1. PMID: 33068240
4. Awadh M, O'Mahony J, Ryan C, Quinn F, Bacon L, Ravi N, Flavin R. (2020) Epstein-Barr virus-positive mucocutaneous ulcer: A unique case occurring in association with cholelithiasis in a gallbladder. *JGH Open*. Oct 9;5(1):149-150. doi: 10.1002/jgh3.12425. PMID: 33490625.
5. Ta R, Santini C, Gou P, Lee G, Tai YC, O'Brien C, Fontecha M, Grant C, Bacon L, Finn S, Vandenberghe E, Quinn F, Dua R, Flavin R. (2020) Molecular Subtyping of Diffuse Large B-Cell Lymphoma Using a Novel Quantitative RT-PCR Assay. *J Mol Diagn*. Dec 29: S1525-1578(20)30611-5. doi: 10.1016/j.jmoldx.2020.11.013. PMID: 33385586
6. Stopsack KH, Gerke T, Zareba P, Pettersson A, Chowdhury D, Ebot EM, Flavin R, Finn S, Kantoff PW, Stampfer MJ, Loda M, Fiorentino M, Mucci LA. (2020) Tumor protein expression of the DNA repair gene BRCA1 and lethal prostate cancer.

- Carcinogenesis Jul 14;41(7):904-908. doi: 10.1093/carcin/bgaa061. PMID: 32556091
7. Mee B, Kirwan M, Clarke N, Tanaka A, Manaloto L, Halpin E, Gibbons U, Cullen A, McGarrigle S, Connolly EM, Bennett K, Gaffney E, Flanagan C, Tier L, Flavin R, McElvaney NG. (2020) What GDPR and the Health Research Regulations (HRRS) mean for Ireland: a research perspective. *Ir J Med Sci.* Jul 29. doi: 10.1007/s11845-020-02330-3. PMID: 32728834.
 8. Kirwan M, Mee B, Clarke N, Tanaka A, Manaloto L, Halpin E, Gibbons U, Cullen A, McGarrigle S, Connolly EM, Bennett K, Gaffney E, Flanagan C, Tier L, Flavin R, McElvaney NG. (2020) What GDPR and the Health Research Regulations (HRRS) mean for Ireland: "explicit consent"-a legal analysis. *Ir J Med Sci.* Jul 30:1-7. doi: 10.1007/s11845-020-02331-2. Online ahead of print. PMID: 32728835 Free PMC article.
 9. O'Connell K, Looby S, Gou P, Flavin R, Farrell M, Cryan JB, Beausang A, Brett FM. (2020) CNS lymphoma, the Irish experience: A retrospective review of neuropathologically confirmed cases over 10 years. *Clin Neuropathol.* Sep/Oct;39(5):212-220. doi: 10.5414/NP301252. PMID: 32301694.
 10. Galera P, Flavin R, Savage NM, Saksena A, Gong S, Wang HY, Swan N, Xi L, Raffeld M, Pittaluga S, Jaffe ES. (2020) Epstein-Barr Virus-negative Marginal Zone Lymphoma as an Uncommon Form of Monomorphic Posttransplant Lymphoproliferative Disorder. *Am J Surg Pathol.* Oct;44(10):1340-1352. doi: 10.1097/PAS.0000000000001514. PMID: 32554995.
 11. Silva R, Moran B, Russell NM, Fahey C, Vlajnic T, Manecksha RP, Finn SP, Brennan DJ, Gallagher WM, Perry AS. (2020) Evaluating liquid biopsies for methylomic profiling of prostate cancer. *Epigenetics* Jun-Jul;15(6-7):715-727. doi: 10.1080/15592294.2020.1712876. PMID: 32000564 Free PMC article.
 12. O'Gorman P, Naimimohasses S, Monaghan A, Kennedy M, Finn SP, Moore JB, Gormley J, Norris S. (2020) Letter: proving the benefit of exercise intervention in metabolic associated fatty liver disease-authors' reply. *Aliment Pharmacol Ther.* Oct;52(8):1426-1427. doi: 10.1111/apt.16070. PMID: 33105979.
 13. Flynn L, Barr MP, Baird AM, Smyth P, Casey OM, Blackshields G, Greene J, Pennington SR, Hams E, Fallon PG, O'Leary J, Sheils O, Finn SP. (2020) Prostate cancer-derived holoclones: a novel and effective model for evaluating cancer stemness. *Sci Rep.* Jul 9;10(1):11329. doi: 10.1038/s41598-020-68187-9. PMID: 32647229 Free PMC article.
 14. O'Gorman P, Naimimohasses S, Monaghan A, Kennedy M, Melo AM, Ní Fhlóinn D, Doherty DG, Beddy P, Finn SP, Moore JB, Gormley J, Norris S. (2020) Improvement in histological endpoints of MAFLD following a 12-week aerobic exercise intervention. *Aliment Pharmacol Ther.* 2020 Oct;52(8):1387-1398. doi: 10.1111/apt.15989. Epub 2020 Jul 27. PMID: 32717123 Clinical Trial.
 15. Hashim D, Gonzalez-Feliciano AG, Ahearn TU, Pettersson A, Barber L, Pernar CH, Ebot EM, Isikbay M, Finn SP, Giovannucci EL, Lis RT, Loda M, Parmigiani G, Lotan T, Kantoff PW, Mucci LA, Graff RE. (2020) Family history of prostate cancer and the incidence of ERG- and phosphatase and tensin homolog-defined prostate cancer. *Int J Cancer* May 15;146(10):2694-2702. doi: 10.1002/ijc.32577. Epub 2019 Jul 27. PMID: 31318977
 16. Thunnissen E, Kerr KM, Dafni U, Bubendorf L, Finn SP, Soltermann A, Biernat W, Cheney R, Verbeken E, Warth A, Marchetti A, Speel EM, Pokharel S, Quinn AM, Monkhorst K, Navarro A, Madsen LB, Tsourti Z, Geiger T, Kammler R, Peters S, Stahel RA; European Thoracic Oncology Platform Lungscape Consortium. (2020) Programmed death-ligand 1 expression influenced by tissue sample size. Scoring based on tissue microarrays' and cross-validation with resections, in patients with, stage I-III, non-small cell lung carcinoma of the European Thoracic Oncology Platform Lungscape cohort. *Mod Pathol.* 2020 May;33(5):792-801. doi: 10.1038/s41379-019-0383-9. PMID: 31740722
 17. Murray C., Al Shehhi A., O'Riain C., Dunne B., Maguire A. (2020) Evaluation of an Enhanced Pathological Examination Protocol for Sentinel Lymph Nodes from Patients with Breast Carcinoma. *J Clin Pathol* October 22. Epub ahead of print.
 18. Boland M.R, Nugent T, Nolan J., O'Mahony J., O'Keefe S., Gillham C., Maguire A., Geraghty J., McCartan D., Evoy D., Prichard R.S., McDermott E.W., Alazawi D., Boyle T.J., Connolly E.M. (2020) Fibromatosis of the breast – A 10 year multi-institutional experience and review of the literature. *Breast Cancer* August 11 Epub ahead of print.
 19. Boland M.R, Ryan E.J., Nugent T., Gilroy D., Keally M., Kennedy J., Maguire A., Alazawi D., Boyle T.J., Connolly E.M. (2020) Impact of progesterone receptor status on response to neoadjuvant chemotherapy in oestrogen receptor positive breast cancer patients. *Journal of Surgical Oncology* 122 (5): 861-868.
 20. Nguyen T.N.Q., Maguire A., Mooney C., Jackson N., Muldoon C., Maguire A., O'Toole D., Ravi N., Lynam-Lennon N., Reynolds J.V., O'Sullivan J., Meade A.D. (2020) Prediction of pathological response to neo-adjuvant chemoradiotherapy for oesophageal cancer using vibrational spectroscopy. *Translational Biophotonics* August 31. Epub ahead of print.
 21. Barrett's Registry Collaboration of academic centers in Ireland reveals high progression rate of low-grade dysplasia and low risk from nondysplastic Barrett's esophagus: report of the RIBBON network. *Dis Esophagus.* 2020 Oct 12;33(10): doaa009. doi: 10.1093/dote/doaa009.
 22. Histopathologist features predictive of diagnostic concordance at expert level among a large international sample of pathologists diagnosing Barrett's dysplasia using digital pathology. *Gut.* 2020 May;69(5):811-822. doi: 10.1136/gut-2019-318985. Epub 2019 Dec 18.
 23. Streamlining Patient Participation in Health Research Biobanks. This report was published in 2020 by the Patient Voice in Cancer Research (PVCr) and the Biobank Participant Information Leaflet/Informed Consent Form Working Group. In 2020, the SJH Histopathology Biobank team also contributed to the development of a national biobank informational leaflet and consent form which incorporates feedback from patients and the data protection officer.
 24. Mohammed Nur M, Al Saadi M, O'Regan EM, Van Harten M, Toner M. (2020) Small and Thin Oral Squamous Cell Carcinomas may Exhibit Adverse Pathologic Prognostic Features. *Head Neck Pathol.* Sep 12. doi: 10.1007/s12105-020-01218-z. Online ahead of print. PMID: 32918712
 25. Barry CP, MacDhabheid C, Tobin K, Stassen LF, Lennon P, Toner M, O'Regan E, Clark JR. (2020) Out of house' virtual surgical planning for mandible reconstruction after cancer resection: is it oncologically safe? *Int J Oral Maxillofac Surg.* Dec 13: S0901-5027(20)30424-0. doi: 10.1016/j.ijom.2020.11.008. Online ahead of print. PMID: 33317906
 26. Ahern J, Toner M, Van Harten M, Nunn J.J (2020) The detection of oral cancer and potentially malignant disorders in Ireland: An observational study of 100 cases. *Public Health Dent.* 2020 Sep;80(4):333-337. doi: 10.1111/jphd.12373. Epub 2020 Aug 12. PMID: 32783255
 27. Humphreys H, Stevens N, Leddin D, Callagy G, Burke L, Watson RW, Toner M. (2020) Pathology in Irish medical education. *J Clin Pathol.* Jan;73(1):47-50. doi: 10.1136/jclin-path-2019-206033. Epub 2019 Aug 22. PMID: 31439711
- Haematology Laboratory (including Coagulation, Haemostatic Molecular Diagnostics and Cryobiology)**
1. Fogarty H., Dowling A., O'Brien D., Langabeer S., Bacon C.L., Flavin R., O'Dwyer M., Hennessy B., O'Leary H., Crotty G., Henderson R., Nolan J., Thornton P., Vandenberghe E. &

- Quinn F. (2020) Biclinal lymphoproliferative disorders: an other association with NOTCH1-mutated chronic lymphocytic leukaemias'. *Irish Journal of Medical Science* <https://doi.org/10.1007/s11845-020-02386-1>.
- Langabeer S, O'Brien D. (2020) Real-world experience of BRAF V600E mutation testing in hairy cell leukaemia. *December 2020. Journal of Clinical Pathology*. 10.1136/jclinpath-2020-207246.
 - Fogarty H., Townsend L., Ni Cheallaigh C., Bergin C., Martin-Loeches I., Browne P., Bacon C.L., Gaule R., Gillett A., Byrne M., Ryan K., O'Connell N., O'Sullivan J.M., Conlon N. & O'Donnell J.S. (2020) COVID19 coagulopathy in Caucasian patients. *British Journal of Haematology Jun*; 189(6):1044-1049.
 - Fogarty H., Townsend L., Ni Cheallaigh C., Bergin C., Martin-Loeches I., Browne P., Bacon C.L., Gaule R., Gillett A., Byrne M., Ryan K., O'Connell N., O'Sullivan J.M., Conlon N. & O'Donnell J.S. (2020) More on COVID-19 coagulopathy in Caucasian patients. *British Journal of Haematology* doi:10.1111/bjh.16791.
 - Doherty D., Lavin M., O'Sullivan J.M., Ryan K., O'Connell N., Dougall A., Byrne M., Rafferty M., Doyle M.M., Di Paola J., James P. and O'Donnell J.S. (2020) Management of elective procedures in Low von Willebrand in the LoVIC study'. *Journal of Thrombosis and Haemostasis*. doi:10.1111/jth.15220.
 - O'Connor L., Gardiner N., Khan A., Broderick V., Browne P., Hayden P.J. (2020) Changes in Viability Markers of Haematopoietic Stem Cells following long-term Cryopreservation. *Bone Marrow Transplantation* (2020) 55: 394.
 - Biochemistry Laboratory
 - Laird E, Walsh JB, Lanham-New S, O'Sullivan M, Kenny RA, Scully H, Crowley V, Healy M. (2020) A High Prevalence of Vitamin D Deficiency Observed in an Irish South East Asian Population: A Cross-Sectional Observation Study. *Nutrients* Nov 28;12(12):3674. doi: 10.3390/nu12123674. PMID: 33260572 Free PMC article.
 - Scully H, Laird E, Healy M, Walsh JB, Crowley V, McCarroll K. (2020) Geomapping Vitamin D Status in a Large City and Surrounding Population-Exploring the Impact of Location and Demographics. *Nutrients* Aug 31;12(9):2663. doi: 10.3390/nu12092663. PMID: 32878330 Free PMC article.

Poster presentations

- Implementation of single-unit Transfusion Policy in a Large Tertiary Hospital. Darcy S., McCabe J., Gough D., Maguire A., McCann AM., Ryan K., O'Donghaile D. (2020) Virtual poster presentation at the 32nd Congress of the European Society of Pathology and XXXIII International Congress of the International Academy of Pathology held from 6-8 December 2020 (virtual).
- Expresser phenotype determines ABO(H) blood group antigen loading on platelets and von Willebrand factor. O'Donghaile D., Jenkins P.V., McGrath R.T., Preston L., Field S.P., Ward S.E., O'Sullivan J.M. & O'Donnell J.S. Virtual poster presentation at the 32nd Congress of the European Society of Pathology and XXXIII International Congress of the International Academy of Pathology held from 6-8 December 2020 (virtual).
- Clinical features and pathological findings in a series of MRI-guided breast biopsies. Aoife Doyle, Michael Courtney, Sylvia O'Keefe, Aoife Maguire. Virtual poster presentation at the 32nd Congress of the European Society of Pathology and XXXIII International Congress of the International Academy of Pathology held from 6-8 December 2020 (virtual).
- Outcome of Repeat HER2 Testing After Initial Equivocal HER2 FISH Results Using 2013 ASCO/CAP Guidelines and Implications for Impact of Updated 2018 ASCO/CAP in Similar Cases. V Malone, J Walker, G Castriciano, A Maguire. *Pathological Society of Great Britain and Ireland Winter Meeting*

2020, London, UK. 21st and 22nd January 2020. Abstract publication: *The Journal of Pathology*, March 2020, 250 Supplement 1.

- Primary Pulmonary Malignant Melanoma; a case series. N Kruseman Aretz, S Nicholson. Poster presentation at the Faculty of Pathology annual symposium held on Feb 6th & 7th 2020.
- An audit of assessment of PDL1 expression by immunohistochemistry in non-small cell lung carcinoma; our experience of one year of in-house testing. V Malone, J McFadden, J Mc Kim, S Nicholson. Poster presentation at the Faculty of Pathology annual symposium held on Feb 6th & 7th 2020.

Other Publications

- Crowley V. & Rasheed E. (2020) Clinical and laboratory aspects of hypercholesterolaemia. *Irish Medical Times* Aug 2020 pp.30-32.

SCOPe Directorate

Clinical Nutrition Department

Publication List

- Ketogenic Diet – the evidence in epilepsy management “Walking the walk”.** Laura Healy. *Professional Nutrition and Dietetic Review* Vol 5, Issue 3, Autumn 2020. Articles highlighted in the Editorial “Dietetics – practice moving with the evidence base”.
- The Ketogenic Diet – a self-experiment.** *Ketogenic Therapies Autumn/Winter Newsletter 2020*. 14th Edition. www.matthewsfriends.org.
- An evaluation of the nutritional needs of patients with narcolepsy attending a national outpatient service.** M. Fitzmaurice, Dr D. O'Rourke, L. Slattery.
- Increasing demand for ketogenic diets in drug resistant epilepsy in Ireland.** Laura A Healy, Eimear Forbes, Siobhan O'Sullivan, Carina Kelleher, Amy Craddock, June Crowley.
- COVID 19. An analysis of nutrition support during the acute phase of critical care admission.** E. O'Sullivan. A.M McMorro, D. McCormack, E.O'Connor.
- Weight Status of Patients Admitted to An Intensive Care Unit for Management of COVID 19.** A. McMorro, E. O'Sullivan, D. McCormack, E. O'Connor. ESPEN20-LB-2283.
- Home Enteral Feeding in Medical Oncology over a 10-month period.** C. Hughes, A. Gardiner, S. Brady, H. Mellett, S. Cuffe, M. Lowery, C. Grant, M. McCarthy, F. Kelleher.
- A 12-month audit of dietetic services within the outpatient Genito Urinary Medicine and Infectious Diseases (GUIDe) Service.** Heather O'Rafferty, Halóg Mellett, Sandra Brady, Prof. Colm Bergin.
- Interdisciplinary IBS pathway initiative improves patient care and delivers savings.** E. Joyce, S. Brady, G. Holleran, S. McKiernan.
- Project Oak and Clinical Nutrition: the successes, challenges and experiences of dietitians.** H Mellett, A Higgins, J McAnulty, O O'Brien.
- Home Enteral Nutrition Discharges - a 2-year snapshot from a specialist oesophagogastric service.** AM McMorro, M Fanning, E O'Connor, R McGowan, H Mellett, N Ravi and JV Reynolds.
- Percutaneous endoscopic jejunostomy (PEJ): Early experience in patients with a previous oesophagectomy and jejunopexy.** Fanning M, Ismael G, Reynolds JV, Ravi N.
- Vitamin D status and supplementation practices in older adults in a transitional care unit and a long term care facility.** Savage M, Kearns S, Mallon E, Lannon R, Cunningham C, Nee R, Mc Carroll K, Robinson D.
- Analysis of Nutrition Support in COVID 19 Critical Care Patients.** E. O'Sullivan, A. McMorro, D. McCormack, E. O'Con-

nor. ESPEN20-LB-2303.

15. **Weight Status of Patients Admitted to An Intensive Care Unit for Management of COVID 19.** A. McMorro, E. O'Sullivan, D. McCormack, E. O'Connor. ESPEN20-LB-2283.
16. **Malnutrition Risk and the need for dietetic intervention post COVID-19 infection on a Care of the Elderly Rehab Ward.** Savage M, Dooley L, Waldron T, Brady S, Mellett H. ESPEN20-LB-2298.
17. **Coproducing health and well-being in partnership with patients, families, and healthcare providers: A qualitative study exploring the role of an epilepsy patient portal.** McCrea Z, Power K, Kiersey R, White M, Breen A, Murphy S, Healy L, Kearney H, Dunleavy B, O'Donoghue S, Lambert V, Delanty N, Doherty C, Fitzsimons M. *Epilepsy Behav.* 2020 Dec 14:107664.
18. **International Recommendations for the Management of Adults Treated with Ketogenic Diet Therapies.** Mackenzie C. Cervenka, Susan Wood, Manny Bagary, Antoaneta Balabanov, Eduard Bercovici, Mesh-Gay Brown, Orrin Devinsky, Cherubino Di Lorenzo, Colin P. Doherty, Elizabeth Felton, Laura A. Healy, Pavel Klein, View ORCID ProfileMagnhild Kverneland, Danielle Lambrechts, Jennifer Langer, Janak Nathan, Jude Munn, Patty Nguyen, Matthew Phillips, Kelly Roehl, Adrianna Tanner, View ORCID ProfileClare Williams, Beth Zupiec-Kania *Neurol Clin Pract* Oct 2020.
19. **Early experience with a nutrition and survivorship clinic in esophageal cancer.** Conor F. Murphy, Michelle Fanning, Nicola Raftery, Jessie A. Elliott, Neil G. Docherty, Claire L. Donohoe, Narayanasamy Ravi, Carel W. le Roux, John V. Reynolds. *Diseases of the Esophagus* (2020)00,1–10
20. **Nutritional screening and assessment of paediatric cancer patients: A quality improvement project (baseline results).** Dominique Glatt, Caoimhe Hughes, Orlaith McCarthy, Fiona O'Shea, Mark F.H Brougham, David Wilson, Raquel Reuvelta Iniesta. *Clinical Nutrition ESPEN*

Medical Social Work

- Presented at the International Integrated Care Conference
- Bereavement Social Worker nominated for Dublin City Winter Lights Campaign to honour front line workers, Dec '20.

Occupational Therapy (OT)

Best Poster: O' Donnell, M (2020) Impact of an Occupational Therapy (OT) Extended Scope Practitioner (ESP) Clinic for Wait Listed Elective Orthopaedic and Plastics patients With Hand and Wrist pathology. British Association of Hand Therapy Annual Conference

- O' Donnell, M (2020) Impact of an OT Extended Scope Practitioner Clinic for Elective. Orthopaedic and Plastics Patients with Hand and Wrist Pathology, SJH Research and Innovation Committee
- Griffin, A. (2020) Specialised Memory and Attention Rehabilitation Therapy (SMART). The Alzheimer's Virtual Café.
- Griffin, A. (2020) Cognitive Stimulation Therapy (CST) and Specialised Memory and Attention Rehabilitation Therapy (SMART) for people with Dementia. Platform presentation at the Rheumatology and Gerontology Conference, Healthy Ageing for Bones, Bodies and Minds.
- Our Lady's Hospice, Dublin 2020
- Hill, O. (2020) Development and implementation of a hand therapy led clinic in the emergency department, Association of occupational Therapists in Ireland Annual Conference

Speech & Language Therapy (SLT) Presentations

- SLT staff presented at TCD webinar on TORBSST. Ongoing TORBSST training completed by SLTs in the Hyper Acute

Stroke Unit for nursing and medical staff

- Pharmacy presentation for the Trinity Msc students
- IDDSI online training webinar for hospital staff to access out-of-hours detailing what IDDSI is and compilation of a patient information leaflet on flow testing thickened drinks
- Joint SLT/Dietetic presentation at the Research and Innovation meeting re IDDSI
- Presentations on Dysphagia and Telehealth and Wellness at IASLT education webinars
- Grand Rounds presentation on IDDSI
- SLT COVID case presentation "Managing the Unexpected" at Grand Rounds on 22 May 2020

Publications

- Publication of SLT advice leaflet "Considering Communication during CoVid-19" for staff and patients wearing PPE
- Journal Presentations Psychology 28th Jan 2020
- Speech Sound Disorders in Children: An Articulatory Phonology Perspective .A Namasivagam, D Coleman, A O Dwyer P Van Lieshout

Physiotherapy

- Annals of the American Thoracic Society "A profile of frailty in a population of stable COPD outpatients using supplemental oxygen" R. Keegan, C. Gleeson, K. Devenney, E. O'Shea, J. Broderick (European Respiratory Society 2020)
- "The Breath Factor"- a pilot study of singing for lung health as part of pulmonary rehabilitation" E. Liston, K. Devenney, C. Gleeson, C. Gray, E. O'Shea (Irish Thoracic Society 2020)
- "An audit of follow-up of inpatients newly commenced home oxygen" O'Keefe, M. O'Donnell, A. Devi, N. Dhondt, E. Drudy, W. Binalialsharabi, K. Breathnach, C. Gleeson, C. Gray, P Nardarajan (Irish Thoracic Society 2020)
- **POSTER:** An Audit and survey of the annual physiotherapy review service in a comprehensive care centre in Ireland. Mark McGowan¹, Sheila Roche¹, Catherine Buckley², Brian O'Mahony³ and Niamh O'Connell², ¹Physiotherapy Department, The National Coagulation Centre, St. James's Hospital, Dublin. ²The National Coagulation Centre, St. James's Hospital Dublin. ³The Irish Haemophilia Society, Dublin, Ireland.
- **ORAL:** Feasibility Study of an Education and Exercise Class for Haemophilia patients attending the National Coagulation Centre Dublin. Sheila Roche^{1, 2}, Mark McGowan^{1, 2}, Brian O'Mahony³, Niamh O'Connell², ¹Physiotherapy Department, St. James's Hospital, Dublin. ²The National Coagulation Centre, St. James's Hospital Dublin. ³The Irish Haemophilia Society, Dublin, Ireland.
- "Physical Activity and Cardiometabolic risk profiles amongst Irish Adult adults with sever Haemophilia: The Irish Personalised Approach to the Treatment of Haemophilia (iPATH) Study". Megan Kennedy¹, Sheila Roche², Mark McGowan², Anjali Patel², Evelyn Singleton², Ruth C Jones², Brian O'Mahony⁴, Kevin Ryan², Niamh M. O'Connell² Michelle Lavin^{2,3}, Peter L. Turecek⁵, James S O'Donnell^{2,3}, John Gormley¹, ¹Trinity College Dublin, Ireland, ² National Coagulation Centre, St. James's Hospital, Dublin. ³ Irish Centre for Vascular Biology, Royal College of Surgeons of Ireland. ⁴ Irish Haemophilia Society, Dublin, Ireland. ⁵Baxalta Innovations GmbH, a Takeda copany, Vienna, Austria.
- "Telehealth for delivery of Haemophilia Comprehensive Care during the COVID-19 pandemic". Mairead O'Donovan^{1,2}, Catherine Buckley¹, Julie Benson¹, Sheila Roche¹, Mark McGowan¹, Laura Parkinson¹, Patricia Byrne¹, Gloria Rooney¹, Catherine Bergin¹, Deirdre Walsh¹, Rachel Bird¹, Fergal McGroarty¹, Helen Fogarty¹, Elizabeth Smyth¹, Saad Ahmed¹, James S O'Donnell¹, Kevin Ryan¹, Brian O'Mahony³, Alison Dougall¹ and Niamh M O'Connell^{1,2} ¹National Coagulation

Centre, St James's Hospital, Dublin, Ireland 2School of Medicine, Trinity College Dublin, Ireland. 3Irish Haemophilia Society, Dublin, Ireland. Haemophilia. 2020; 26: 984-990.

- Prevalence of sarcopenia and associated factors in older adults attending a day hospital service in Ireland. Kieron Connolly, Conal Cunningham, Niamh Murphy, Roman Romero-Ortuno, Frances Horgan European Geriatric Medicine EGEM-D-20-006D9R1
- Progressive Resistance Training in a Post-acute, Older, Inpatient Setting: A Randomised Controlled Feasibility Study. Sinéad A. Coleman, Conal J. Cunningham, Niamh Murphy, Jean Feaheny, [...] N. Frances Horgan Journal of Frailty, Sarcopenia and Falls Nov 2020
- Persistent poor health post COVID-19 is not associated with respiratory complications or initial disease severity Liam Townsend, Joanne Dowds, Kate O'Brien, Grainne Sheill, [...] Ciaran Bannan Annals of the American Thoracic Society 2021 Jan 8. doi: 10.1513/AnnalsATS.202009-1175OC
- Persistent fatigue following SARS-CoV-2 infection is common and independent of severity of initial infection Liam Townsend, Adam H. Dyer, Karen Jones, Jean Dunne, Rachel Kiersey, Fiona Gaffney, Laura O'Connor, Aoife Mooney, Deirdre Leavy, Katie Ridge, Catherine King, Fionnuala Cox, Kate O'Brien, Joanne Dowds, [...] Niall Conlon PLOS one -2020 doi: 10.1371/journal.pone.0240784
- The Effect of a 12-Month Exercise Intervention on Cognition in Mild Cognitive Impairment—A Multicenter Randomized Controlled Trial. Stuckenschneider, T., Sanders, M.L., Devenney, K.E., [...] and Olde Rikkert, M.G., Frontiers in Aging Neuroscience. 2021
- Home FIRsT: interdisciplinary geriatric assessment and disposition outcomes in the Emergency Department O'Shaughnessy Í, Romero-Ortuno R, Edge L, Dillon A, Flynn S, Briggs R, Shields D, McMahon G, Hennessy A, Kennedy U, Staunton P, McNamara R, Timmons S, Horgan F, Cunningham C, European Journal of Internal Medicine 24 November 2020
- Association between Clinical Frailty Scale score and length of stay in a complex discharge unit A McDermott, G Kerr, J Browne Jan 2021 Irish Medical Journal <http://imj.ie/irish-medical-journal-january-2021-vol-114-no-1/>
- Does the shoe really fit? Characterising ill-fitting footwear among community-dwelling older adults attending geriatric services: an observational cross-sectional study. Brian O'Rourke, Mary E. Walsh, R. Brophy, S Valley, N Murphy, B Conroy, C Cunningham, N. F. Horgan. February 2020· BMC Geriatrics
- Feasibility of a Broad Test Battery to Assess Physical Functioning Limitations of People Experiencing Homelessness. Julie Broderick, Sinead Kiernan, Niamh Murphy, Joanne Dowds, Cliona Ní Cheallaigh January 2021· International Journal of Environmental Research and Public Health
- The feasibility of implementing an exercise programme for deconditioned cancer survivors in a national cancer centre: FIXCAS Study. Kate Devenney, Niamh Murphy, Ronan Ryan, [...], Grainne Sheill, December 2020 HRB Open Research
- Study protocol: A profile of physical performance variables in an outpatient adult population with narcolepsy. Ragy Tadrous, Deirdre O'Rourke, Niamh Murphy Lisa Slattery, Gillian Quinn, Julie Broderick. July 2020· HRB Open Research
- Feasibility of Telephone Follow-Up after Critical Care Discharge. Sofia Hodalova, Sarah Moore, Joanne Dowds, Niamh Murphy, Ignacio Martin-Loeches, Julie Broderick. March 2020· Medical Sciences
- Addressing complex societal challenges in health education – A physiotherapy-led initiative embedding inclusion health in an undergraduate curriculum Julie Broderick, Alice Waugh, Mark Mc Govern, Lucy Alpine, Sinead Kiernan, Niamh Murphy, Sofia Hodalova, Sorcha Feehan, Cliona Ni Cheallaigh March 2020· HRB Open Research

National Medicines Information Centre (NMIC)

The NMIC changed the format of our publications to a new secure and mobile device-compatible ePublication. In addition to being more reader and environmentally friendly, the publication facilitates access to metrics, user satisfaction surveys and the opportunity for readers to suggest topics of interest for future publications.

Clinical Research Facility (CRF)

1. [Improvement in histological endpoints of MAFLD following a 12-week aerobic exercise intervention.](#) **O'Gorman P, Naimimohasses S, Monaghan A, Kennedy M, Melo AM, Ní Fhloinn D, Doherty DG, Beddy P, Finn SP, Moore JB, Gormley J, Norris S.** Aliment Pharmacol Ther. 2020 Oct;52(8):1387-1398. doi: 10.1111/apt.15989. Epub 2020 Jul 27. PMID: 32717123 Clinical Trial.
2. [Metagenomic Alterations in Gut Microbiota Precede and Predict Onset of Colitis in the IL10 Gene-Deficient Murine Model.](#) Miyoshi J, Lee STM, **Kennedy M**, Puertolas M, Frith M, Koval JC, Miyoshi S, Antonopoulos DA, Leone V, Chang EB. Cell Mol Gastroenterol Hepatol. 2021;11(2):491-502. doi: 10.1016/j.jcmgh.2020.08.008. Epub 2020 Aug 21. PMID: 32835897 **Free PMC article.**
3. [Improvement in cognitive impairment following a 12-week aerobic exercise intervention in individuals with non-cirrhotic chronic hepatitis C.](#) **O'Gorman P, Strahan O, Ferguson D, Monaghan A, Kennedy M, Forde C, Melo AM, Doherty DG, O'Brien KK, McKiernan S, Kenny RA, Coen R, Doherty C, Bergin C, Gormley J, Norris S.J** Viral Hepat. 2020 Dec 28. doi: 10.1111/jvh.13460. Online ahead of print. PMID: 33372320
4. [A randomised, double-blind, placebo-controlled, pilot trial of intravenous plasma purified alpha-1 antitrypsin for SARS-CoV-2-induced Acute Respiratory Distress Syndrome: a structured summary of a study protocol for a randomised, controlled trial.](#) Natalie L. McEvoy, Jennifer L. Clarke, Oliver J. Mc Elvaney, Oisín F. Mc Elvaney, Fiona Boland, Deirdre Hyland, Pierce Geoghegan, Karen Donnelly, Oisín Friel, Ailbhe Cullen, Ann M. Collins, Daniel Fraughen, **Ignacio Martin-Loeches, Martina Hennessy**, John G. Laffey, Noel G. Mc Elvaney, Gerard F. Curley. Trials. 2021; 22: 288. Published online 2021 Apr 19. doi: 10.1186/s13063-021-05254-0 PMCID: PMC8054126
5. [Symptoms at presentation for patients admitted to hospital with Covid-19: results from the ISARIC prospective multinational observational study.](#) ISARIC Clinical Characterisation Group, Pritchard MG, Olliaro PL. medRxiv. 2020 Oct 27:2020.10.26.20219519. doi: 10.1101/2020.10.26.20219519. Preprint. PMID: 33140062
6. [Prolonged elevation of D-dimer levels in convalescent COVID-19 patients is independent of the acute phase response](#) Liam Townsend, Helen Fogarty, Adam Dyer, Ignacio Martin-Loeches, Ciaran Bannan, Parthiban Nadarajan, Colm Bergin, Cliona O'Farrelly, Niall Conlon, Nollaig M. Bourke, Soracha E. Ward, Mary Byrne, Kevin Ryan, Niamh O'Connell, Jamie M. O'Sullivan, Cliona Ni Cheallaigh, James S. O'Donnell. J Thromb Haemost. 2021 Apr; 19(4): 1064–1070. Published online 2021 Mar 8. doi: 10.1111/jth.15267
7. [Persistent fatigue following SARS-CoV-2 infection is common and independent of severity of initial infection](#) Liam Townsend, Adam H. Dyer, Karen Jones, Jean Dunne, Aoife Mooney, Fiona Gaffney, Laura O'Connor, Deirdre Leavy, Kate O'Brien, Joanne Dowds, Jamie A. Sugrue, David Hopkins, Ignacio Martin-Loeches, Cliona Ni Cheallaigh, Parthiban Nadarajan, Anne Marie McLaughlin, Nollaig M. Bourke, Colm Bergin, Cliona O'Farrelly, Ciaran Bannan, Niall Conlon. PLoS One. 2020; 15(11): e0240784. Published online 2020 Nov 9.

doi: 10.1371/journal.pone.0240784

8. [Localization of Brain Networks Engaged by the Sustained Attention to Response Task Provides Quantitative Markers of Executive Impairment in Amyotrophic Lateral Sclerosis](#) Roisin McMackin, Stefan Dukic, Emmet Costello, Marta Pinto-Grau, Antonio Fasano, Teresa Buxo, Mark Heverin, Richard Reilly, Muthuraman Muthuraman, Niall Pender, Orla Hardiman, Bahman Nasseroleslami *Cereb Cortex*. 2020 Jul; 30(9): 4834–4846. Published online 2020 Apr 21. doi: 10.1093/cercor/bhaa076
9. [Preoperative exercise to improve fitness in patients undergoing complex surgery for cancer of the lung or oesophagus \(PRE-HIIT\): protocol for a randomized controlled trial](#) Gráinne Sheill, Emer Guinan, Linda O'Neill, Charles Normand, Suzanne L. Doyle, Sarah Moore, John Newell, Grainne McDermott, Ronan Ryan, John V. Reynolds, Juliette Hussey. *BMC Cancer*. 2020; 20: 321. Published online 2020 Apr 15. doi: 10.1186/s12885-020-06795-4
10. Gráinne Schiell, Martina Hennessy, Linda O'Neill, Sophie Reynolds, Michael Gill, Jeremy Towns, Emer Guinan Exercise and chronic health conditions in the community: A qualitative Study of Patients and Fitness instructors. *Health Soc Care Community*. 2021;00:1–10.

<https://www.irishtimes.com/news/health/irish-haemophilia-patients-given-functional-cure-1.4430168>



**ANNUAL REPORT
2020**