



Government of Western Australia
South Metropolitan Health Service



RESEARCH REPORT 2021

Excellent health care, every time



Acknowledgement of Country and People

South Metropolitan Health Service respectfully acknowledges the Noongar people both past and present, the traditional owners of the land on which we work. We affirm our commitment to reconciliation through strengthening partnerships and continuing to work with Aboriginal peoples.

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Foreword

The South Metropolitan Health Service (SMHS) Research Report 2021 highlights research activity undertaken across the Fiona Stanley Fremantle Hospitals Group (FSFHG) and Rockingham Peel Group (RkPG) in the 2021 calendar year.

From the SMHS Chief Executive

This report highlights the impressive volume of diverse research activity conducted across SMHS sites during 2021 and associated research translation activities occurring via publications. It also details the growth in our research culture, capacity and capability as we build our collaborative research strategy.

I am very proud of the achievements made during an incredibly difficult year with the ongoing COVID-19 pandemic; existing research projects were maintained, and many new research projects commenced. The annual SMHS Research Showcase event was held in November to celebrate and showcase our researchers work. Thank you to all the wonderful presenters and judges for giving their time and expertise to support the showcase events and congratulations to award winner **Sarah Hug**, Physiotherapist at Fiona Stanley Hospital.

I look forward to building on our research ecosystem and developing our SMHS Research Strategy in 2022.

Mr Paul Forden
Chief Executive, SMHS

“ This report... details the growth in our research culture, capacity and capability.”



Acknowledgements

This report was developed with contributions from:

- researchers from multiple departments as detailed within this report
- SMHS Research Advisory Committee
- SMHS/East Metropolitan Health Service Library team
- SMHS Corporate Communications team
- SMHS Research, Support and Development Unit (RSDU) team.

Executive summary

The SMHS Board has outlined research as a key enabler to deliver on its strategic priority of *Excellence in the delivery of safe, high quality clinical care*.¹

It is also recognised that research is a pivotal enabler of the other four strategic priorities of SMHS:

- Provide a great patient experience
- Engage, develop and provide opportunities for our workforce
- Strengthen relationships with our community and partners
- Achieve a productive and innovative organisation which is financially sustainable.

This report captures research activity that occurred in SMHS during the 2021 calendar year.

While most research was conducted at Fiona Stanley Hospital (FSH), a significant number of projects involved collaboration across SMHS sites including Fremantle Hospital (FH), Rockingham General Hospital (RGH) and community services.

A high-level summary of our research activity:

75

- projects received SMHS HREC approval

6

- waivers of consent were granted by the SMHS HREC

141

- projects were approved to proceed at SMHS sites (via governance)

586

- publications that have an affiliation noted with SMHS or a SMHS site were sourced.

¹ <https://ww2.health.wa.gov.au/-/media/Files/Corporate/general-documents/SMHS/PDF/SMHS-Strategic-Plan-2021-2025.pdf>

Research support and development

SMHS has continued to build on its research leadership capacity and capability with the appointment, awards and promotions of key staff, and the implementation of some innovative new programs.

Governance

Nurse Director Research, Professor Gavin Leslie

Fiona Stanley Fremantle Hospital Group appointed a new Nurse Director Research to build capacity, capability and expertise in nursing research.

“I’m thrilled to have been selected to join the team at SMHS in this new research role in nursing and midwifery. With my background I bring research experience with grants and projects across a broad range of discipline areas, also serving on ethics committees, as a journal editor and research administrator. I continue to have an adjunct role with Curtin University as an Emeritus Nursing Professor and Researcher with CAHS/PCH and am actively researching and supervising with higher degree by research students. Current projects I’m involved with include triage delivery, heart surgery recovery and the detection and response to clinical deterioration in children.

In my new position I have been looking to assess the current research situation across SMHS by:

1. cataloguing current nurse and midwife lead projects
2. surveying nursing and midwifery research capacity and culture
3. determining research priorities.

This will provide an evidence base for our research plan in nursing and midwifery”.



**Nurse Director Research,
Professor Gavin Leslie**

“ I bring research experience with grants and projects across a broad range of discipline areas.”

SMHS Human Research Ethics Committee Chair

Emeritus Professor David Fletcher (UWA) was appointed as the new SMHS Human Research Ethics Committee (HREC) Chair in March 2020 and has led the HREC team through nearly two years of different ways of working and responding to the COVID-19 pandemic.

This is a voluntary position and involves chairing the monthly and ad-hoc meetings, out of session reviews for low risk projects and advice to the SMHS HREC team as required.

Prof Fletcher has extensive experience as a researcher, teacher, manager and clinician in General/Upper Gastrointestinal Surgery and is passionate about promoting research whilst protecting the rights of patients and research participants.

“Having experienced the other side in applying to Ethics Committees as a researcher, I was pleased to take on the role of Chair after my (semi) retirement. I have found the SMHS Ethics/Research/Governance members as being absolutely committed to supporting researchers in SMHS (and often beyond) in their applications, thereby speeding up the approval process, as a priority”.



Emeritus Professor David Fletcher

“ Having experienced the other side in applying to Ethics Committees as a researcher, I was pleased to take on the role of Chair.”

SMHS Researcher of the Year – Professor Bu Yeap

Professor Bu Yeap's commitment to improving men's health is not the only reason he was named Researcher of the Year at the recent [South Metropolitan Health Service \(SMHS\) Excellence Awards \(external link\)](#).

A consultant endocrinologist at Fiona Stanley Hospital (FSH), Professor Yeap was also acknowledged for actively engaging with consumers in his research and for promoting a positive research culture across SMHS. Professor Yeap's internationally renowned research includes contributing to a national trial of testosterone to prevent type 2 diabetes in high-risk men. He is principal investigator for the WA Health in Men Study that characterised declining testosterone with increasing age and established that lower testosterone concentrations in older men predict poorer health outcomes. In addition, he leads endocrine studies in the Busselton Health Study.

Professor Yeap said he was grateful and honoured to receive the award. "There is a lot of great research going on in SMHS thanks to valuable interactions between clinical service, teaching and research staff," Bu said. "I have been privileged to work with many excellent PhD students, research colleagues, and collaborators."

"Good ideas go a lot further with a team sharing the work and collaborators on board, so this is really an award for all of these teams."

SMHS Chief Executive Paul Forden said Bu was a deserving winner of Researcher of the Year award.

"His passion to improve patient outcomes through research is commendable and he is committed to developing the next generation of researchers," Paul said.



Professor Bu Yeap

“ Good ideas go a lot further with a team sharing the work and collaborators on board, so this is really an award for all of these teams.”

Strategy

SMHS implemented some innovative new programs in 2021.

Research mentoring launch

The Research Support and Development Unit (RSDU) launched the SMHS Research Mentoring Program in April 2021. The program is designed to link junior researchers or those interested in conducting research with senior researchers within the health service who have many years conducting various types of research. 23 mentees were paired with mentors for this inaugural program. Mentees came from medical, nursing, allied health and corporate staff and participated in goal setting prior to the commencement of the program. Feedback from both mentors and mentees has been positive with participants indicating it has provided them support and new knowledge about how to make a start in research.

SMHS special issue

A special issue of the [Tasman Medical Journal](#) was published online in June 2021 to honour the outstanding research being conducted at SMHS. The special issue includes 12 papers from a broad range of research areas across SMHS.

ClinTrialRefer app

SMHS continues to be a leader in adopting digital solutions, becoming the first Health Service Provider in WA to promote its clinical trial opportunities via a dedicated app. The [ClinTrialRefer](#) app is an Australian digital innovation that enables doctors and patients

to independently search for actively recruiting clinical trials and to access trial site locations and contact details in real time. SMHS Head of Research and Development Melanie Wright said there are currently more than 100 trials available on the app listed under 'SMHS – Fiona Stanley Fremantle Hospital Group'. "The app provides information for each individual trial, including eligibility and contact details," said Melanie. "This is a great way to market the amazing work that our researchers are doing in clinical trials while also providing treatment opportunities and choice to patients".

Support for publications

SMHS created a fund to support the publication of research in open access journals and has committed \$25,000 for 2021. The Open Access Publication Fund is designed to support researchers who have conducted research at a SMHS site and who do not have access to publication funding support. This may be for the novice researchers or those conducting investigator led research with no publication support from universities or a grant. The SMHS Research Advisory Committee (RAC) supported this fund and the new Open Access Publications Review Panel (OAPRP) has been formed with Dr Oyekoya Ayonrinde as the Chair. "Our vision is that the SMHS Open Access Publication Fund will make knowledge from high quality publications by SMHS staff more accessible and impact on the health of our population." Dr Ayonrinde said. In 2021, the SMHS Open Access Publication Fund supported 10 publications (refer to Table 1).

Table 1: Publications part funded by SMHS in 2021

Name	Title	Title of Journal	RGS Number	Amount funded
Dr Pravin Viswambaram	Adenocarcinoma of The Urethra: A Rare Subtype of Urethral Cancer	Urology Case Reports	N/A Case Report	\$500
Dr Dean Choong	Cutaneous involvement by multiple myeloma presenting as erythematous indurated plaques at the site of cardiac pacemaker insertion	Journal of the American Academy of Dermatology Case Reports	N/A Case Report	\$400
Dr Emma Hamilton	Reduction in femoral neck and total hip bone mineral density following hospitalisation for diabetes-related foot ulceration	Scientific reports	RGS 1289	\$2,000
Dr Simon Hazeldine	Critical role of general practitioners in preventing readmission following emergency department alcohol screening and brief intervention management of alcohol-related problems	Journal of Primary Care and Community Health	RGS 0377	\$1,627.42
Dale Edwick	Electrical stimulation improves healing in acute minor burn injury, as measured by bioimpedance spectroscopy: A single centre, randomised, controlled trial	Burns Open	RGS 1991	\$1,800
Dr Paul Ingram	A clinical and in vitro assessment of outpatient parenteral benzylpenicillin and ceftriaxone combination therapy for enterococcal endovascular infections.	Journal of antimicrobial chemotherapy-Antimicrobial Resistance	RGS 1075	\$2,000
Dr Mohammed Al-Zubaidi	A Novel Technique to Remove a Urinary Bladder Foreign Body Endoscopically using an Endoloop	Urology Case Reports	N/A Case Report	\$500
Dr Adrian Regli	Computed tomographic assessment of lung aeration at different positive end-expiratory pressures in a porcine model of intra-abdominal hypertension and lung injury	Intensive Care Medicine Experimental	Animal study	\$2,000
Dr Julian Cooney	Novel LSD1 Inhibitor in Acute Myeloid Leukaemia Transformed from Essential Thrombocythaemia	Cancer Reports	RGS 2259	\$500
Dale Edgar	Research lessons during the COVID19 pandemic: Collecting longitudinal physical and mental health outcomes	Archives of Public Health	RGS 4040	\$2,000

Research Screener

SMHS worked in partnership with Dr Leo Ng from Curtin University to conduct a beta trial of this innovative software tool. **Research Screener** is a web-based application that semi-automates screening of research articles using machine learning, with the ultimate goal of reducing the time spent on screening articles for a literature/systematic review from months to weeks. During 2021, there were 41 SMHS Users involved in 22 research projects; 8,671 abstracts were screened by SMHS researchers and 43,863 abstracts were processed by the Research Screener algorithm.

Biobank project

As part of the SMHS Strategic Plan, a feasibility project was completed to scope out the potential for establishing a SMHS Biobank; including features and functionality of importance to our researchers following extensive consultations and workshops. An options analysis paper and a Business Case have been developed and await approval.

Research Showcase

The annual research showcase was held on Wednesday 10 November 2021, with the following theme:

“Research Translation: from bench to bedside”

There was a breakfast forum with panel discussion, a three-minute project competition, a Grand Round “Introducing the Raine study”, and an evening gala for HREC volunteers and research mentors/mentees to celebrate their achievements.

The Breakfast Forum provided attendees with an insight of the research pipeline from identifying problems, conducting benchtop research, clinical research and finally translating those findings into clinical practice. It was inspiring to hear some patient stories and gain insight into the real impact that our research has on patients and their families.



Three minute project (Left to right): Nicole Catalano, Judges Professor Gavin Leslie, and Dr Natalie Giles, contestants Ashan Weerakkody, Anne Matthews, Marion Bamblett, Jess Vo, Selina Metternick-Jones (Manager Research Support and Development) 2021 Winner Sarah Hug and Melanie Wright (Head of Research and Development).

Our research showcase **guest speakers** were:

- **Dr Warren Pavey**, Cardiac Anaesthetist
- **Dr Kaitlyn Lam**, Cardiologist, Advanced Heart Failure and Transplant
- **Prof Andrew Maiorana**, Exercise Physiologist and Advanced Heart Failure and Cardiac Transplant researcher.

The **Three Minute Project competition** gave some of our novice researchers an opportunity to present their research projects.

- **Nicole Catalano** was the runner-up with her project **Acquisition of skin and gut microbiome in Neonates born by water-birth – AQUA – ‘The Waterbirth Study’**

- **Sarah Hug**, Physiotherapist, was the competition winner for her presentation: **“Referral is the biggest hurdle in implementation of Pulmonary Rehabilitation”**.

Special thanks to our competition judges:

- **Professor Alison Jones**, Director of Medical Education FSFHG
- **Dr Natalie Giles**, SMHS Ethics Coordinator
- **Emeritus Professor Gavin Leslie**, Nurse Director Research, FSFHG.

Research events

Breakfast forums

1. International Women’s Day – Women in Research – 8 March 2021

- Speakers:
 - **Professor Merrilee Needham**, SMHS Clinical Lead for Research (Chair)
 - **Professor Christobel Saunders AO**, Breast cancer surgeon FSH. *From discovery to practice*
 - **Associate Professor of Nursing Susan Slatyer**, Adjunct Research Consultant FSFHG. *Why on Earth do nurses need research?*
 - **Dr Helen Keen**, Head of Rheumatology FSH. *Giant Cell Arteritis*.

2. The importance of Clinical Trials in delivering top quality care – 6 July 2021

- Speakers:
 - **Dr Wei-Sen Lam**, Head of Medical Oncology FSH / Director *Teletrials WACHS. TeleTrials for Country WA*
 - **Dr Duncan Purtill**, Consultant Haematologist FSH. *Benefits of clinical trial participation – the haematology CAR-T story*
 - **Alissa Monk**, Clinical Trials Liaison Officer SMHS. *ClinTrialRefer app*
 - **Melanie Wright**, Head of Research and Development SMHS. *The Importance of Clinical Trials in SMHS*.

Raine Study workshop

SMHS hosted a workshop with the **The Raine Study** team to help researchers understand how they can use the Raine Study data to answer their research questions. After three decades, discoveries from the Raine Study continue to have significant impact on health policy, practice, and education around the world through ground-breaking multi-institutional research that examines influences, pathways and outcomes through all aspects of human life.

Overview of SMHS research activity

Table 2 and Table 3 provide an overview of research approval activity in SMHS from 01 January – 31 December 2021.

Table 2: SMHS HREC approvals 2021



*Note: projects may have approval from other approved ethics committees; therefore, not all projects need SMHS HREC approval

Table 3: SMHS site authorisation (governance) approvals and associated sub-data 2021

Activity	Number of projects
Site authorisation approved – total by project	141
Site authorisation approved – total by health site	
■ Fiona Stanley Hospital	132
■ Fremantle Hospital	16
■ Rockingham General Hospital	8
■ Community Physiotherapy Service	1
■ Mandurah Community Health Centre	1
Clinical trials	
■ Commercially funded	38
■ Phase I	8
■ Phase II	9
■ Phase III	30
■ Phase IV	4

Notes:

- one project can be conducted across multiple health sites, therefore the sub-data will not always equal the total
- clinical trial designation and phase is inputted by the researcher and often left blank or 'not applicable'
- projects can have grant funding, non-commercial funding or in-kind funding. Commercial only noted here for reference and interest

Table 4 provides a comparison of ethics and governance (site authorisation) activity, as well as publications sourced from 2017 to 2021.

Table 4: Comparative data 2017–21

Descriptor	2017	2018	2019	2020	2021
Ethics approvals	92	79	79	88	75
SMHS HREC waiver of consent	30	10	12	14	6
Site authorisation approvals	155	152	161	183	141
Publications	357	452	479	534	586

SMHS experienced an increase in research projects during the first wave of the COVID-19 pandemic in 2020 and a decrease during 2021 as the pandemic extended.

Site authorisation approvals seem to have decreased during 2021; however as at 31 December 2021 there were **43 projects** in the governance queue undergoing review and all were awaiting responses back from research teams.

SMHS Human Research Ethics Committee (HREC)

The SMHS HREC is a national certified lead HREC (EC00265). With the introduction of the National Mutual Acceptance (NMA) Scheme, some projects may have been approved by another certified lead HREC in Australia; therefore, they do not require SMHS HREC approval, but do require site authorisation via the governance process.

Waiver of consent

The National Health and Medical Research Council (NHMRC) highlights in the National Statement² that, depending upon the circumstances of an individual project it may be justifiable to employ a waiver of the requirement for consent, rather than seeking explicit consent. To apply for a waiver of consent investigators must respond to Section 2.3.10 (a-i) of the National Statement highlighting the need for a waiver as well as an analysis of the associated risks and benefits of the project.

A waiver of consent can only be granted for low risk projects which pose no more than the risk of discomfort to participants; this does not include any novel interventional research. Table 5 documents 6 waivers of consent granted in 2021, which is a decrease from previous years. 1 application was declined in 2021 as the committee agreed that it was not impractical for the study team to gain consent from the participants.

The NHMRC requires that a brief description of all projects with a waiver of consent is publically available.

Table 5: Waiver of consent projects granted by SMHS HREC 2021

RGS number	Project title
RGS-4073	Androgen receptor expression in inflammatory bowel disease
RGS-4075	Liver transplantation for the treatment of homozygous familial hypercholesterolaemia
RGS-4274	The Use of Machine Learning to Risk Stratify Undifferentiated Chest Pain in the Emergency Department
RGS-4541	Mandibular subcondyle fractures: a 5-year retrospective analysis comparing treatment modalities
RGS-4644	Investigating the Impact of Non-antimicrobial Drug Prescribing on Antimicrobial Resistance in a Western Australian Hospital
RGS-4748	Applications of Machine Learning at Emergency Department Triage

Research highlights

ICU research

Congratulations to Fiona Stanley Hospital's Associate Professor Edward (Ed) Litton who was announced as joint winner of the Woodside Early Career Scientist of the Year Award at the 2021 Premier's Science Awards. Ed is an intensive care specialist whose goal is to improve outcomes for critically ill patients in his care. He was recognised for his contribution to the COVID-19 response which included developing and implementing a large international clinical trial that identified effective treatments for severe COVID-19, leading a study to inform Australian intensive care COVID-19 preparedness.

Ed says he is honoured to have been recognised for his research work: "Receiving this award alongside scientists demonstrates the impact clinicians can have when they conduct high quality scientific research, particularly in area such as intensive care where the relative efficacy of conventional treatment options may be uncertain".



Associate Professor Edward (Ed) Litton

“ I am honoured to be recognised for my research work.”

The Western Australian COVID-19 Immunity Collaborative (WACIC) Biobank



Western Australian COVID-19 Immunity Collaborative team

The Western Australian COVID-19 Immunity Collaborative (WACIC) Biobank is a biorepository that facilitates research into SARS-CoV-2 immunity. In simple terms, WACIC will help to answer questions about how immunity to the SARS-CoV-2 virus develops following infection or vaccination, how long it lasts, and to develop diagnostic laboratory tests to demonstrate whether someone is immune to COVID-19. The aim is to understand what immune factors are critical for protection against COVID-19, and support translating this knowledge into practice.

Led by Dr Dominic Mallon and Dr Michael O'Sullivan from the PathWest Immunology Department at Fiona Stanley Hospital, the WACIC team has recruited over 300 participants in just 7 months and over 550 sets of blood and saliva samples have been stored at partnering laboratories located at Murdoch University, the University of Western Australia and PathWest at Fiona Stanley Hospital. The samples are available to all WA-based researchers and diagnostic laboratories for projects relevant to COVID-19 immunity.

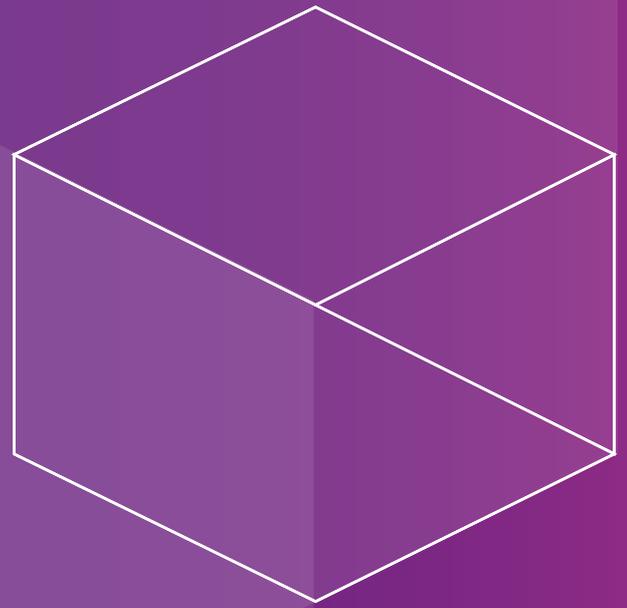
When the WACIC Biobank was planned in late 2020, limited community spread meant WA was well placed to contribute to COVID immunity research. Being able to study vaccine-induced immunity in a population who have not previously been exposed to the SARS-CoV-2 virus is a unique opportunity and one not able to be replicated in many other locations.

Recruitment is ongoing, with a focus on immunocompromised as well as healthy individuals who are being vaccinated against SARS-CoV-2, and individuals who have had a COVID-19 infection. Over 100 immunocompromised patients have been enrolled from clinics at both Fiona Stanley Hospital and Sir Charles Gairdner Hospital, including those receiving chemotherapy for cancer and organ transplant recipients on immune suppressive therapy. Samples and information collected from these participants will be key in understanding immune responses in these highly vulnerable populations.

The biobank is sponsored by PathWest and has received state government funding to establish the core adult collections. Recently, additional funding has been awarded from the Stan Perron Charitable Foundation to expand recruitment to children and adolescents under 18 years of age.

Applications for researchers to gain access to the Biobank's data and specimens are currently being welcomed, those interested are encouraged to email the team at WACIC@health.wa.gov.au or complete an application form via this REDCap link: <https://redcap.link/WACICBiobankRequest>

“ Our aim is to understand what immune factors are critical for protection against COVID-19, and support translating this knowledge into practice.”



Research Projects

Research projects

Research projects listed in this report were collated by reviewing the WA Health online Research Governance Service (RGS) reports, SMHS SHIMS database and SMHS Monthly Research approval reports to identify new projects approved to commence in the 2021 calendar year i.e. only those that had received site authorisation (governance) were included.

Table 6 details **141** research projects approved to commence at a SMHS site during 2021.

Table 6: Projects approved to proceed at a SMHS site in 2021

RGS number	Project title
61	Oestradiol PET scans in metastatic estrogen receptor positive breast cancer: investigation of utility in assessing disease burden and treatment response
821	Development of the integrated immuno-flowFISH method for application to multiple myeloma
1090	ACCESS: Australian Collaboration for Coordinated Enhanced Sentinel Surveillance
1338	Patients' Attitudes Towards The Use Of Artificial Intelligence In Their Emergency Care
1425	Targeted therapeutic mild hypercapnia after resuscitated cardiac arrest: A phase III multi-centre randomised controlled trial
1489	CCTL019A2205B Long Term Follow-Up of Patients Exposed to Lentiviral-Based CD19 directed CAR T-Cell Therapy
1883	Imaging flow cytometry for the assessment of chronic lymphocytic leukaemia (CLL)
3437	Takotsubo cardiomyopathy: Truly a syndrome of cardiac catecholamine excess?
3486	Point of care (POC) testing to improve outcomes in peritoneal dialysis associated peritonitis
3509	Targeted Education ApproaCH to Improve Peritoneal Dialysis Outcomes - Cluster Randomised Controlled Trial (TEACH-PD CRCT)
3560	Assessment of ROTEM in Cirrhotic Patients before and after 3 Factor Prothrombinex concentrate
3578	A multicentre double-blind placebo-controlled randomised trial of SerTRaline for AnxieTy in adults with a diagnosis of Autism (STRATA)
3582	Study Evaluation of the expansion of take-home naloxone project conducted by the Mental Health Commission, WA
3637	A Seamless, Adaptive, Phase 2b/3, Double-Blind, Randomized, Placebo-controlled, Multicenter, International Study Evaluating the Efficacy and Safety of Belapectin (GR-MD-02) for the Prevention of Esophageal Varices in NASH Cirrhosis
3736	A Common Rejection Module for diagnosing lung rejection
3745	Carotid Re-vascularization and Medical Management For Asymptomatic Carotid Stenosis Trial A
3772	Impact of evidence-based quality-of-care processes gained from clinical trial participation on management and outcome of methicillin-resistant Staphylococcus aureus bacteraemia (CAMERA2 case-control retrospective study)

3782	Effect of exercise in improving hypoglycaemia awareness in individuals with Type 1 diabetes and impaired hypoglycaemia awareness under free-living conditions: A pilot study
3787	A longitudinal cohort study of dementia with Lewy bodies - Unravelling the confounding influences of Alzheimer's disease and cerebrovascular disease in dementia with Lewy bodies
3820	MODUS II: A Single-Arm Prospective, Multi-Centered Study to Assess the Sherlock 3CG™ Diamond Tip Confirmation System
3872	Tranexamic acid to Reduce Infection after Gastrointestinal Surgery
3905	Australian and New Zealand Multicenter trial of Extended (6-8 hours) Non-Ischemic Heart Preservation (NIHP) of Donor Hearts for Transplantation
3914	Immunological correlates of sustained clinical response in patients receiving allergen specific immunotherapy to D. Pteronyssinus for perennial rhinitis
3918	Observational study looking at right ventricular free wall longitudinal strain to predict post-operative acute kidney injury in patients undergoing cardiopulmonary bypass and cardiothoracic surgery
3920	Australian Translation and Validation of the Life Impact Burn Recovery Evaluation (LIBRE)
3940	A single-centre, open-label, phase I study to evaluate the diagnostic performance of 89Zirconium-labelled girentuximab (89Zr-TLX250) PET in Urothelial Cancer Patients
3965	Defining exercise blood pressure thresholds to inform clinical guidelines and practice: The EXERcise stress Test collaboratiON
4033	A retrospective patient health record review of infants under 12 months with life-limiting conditions who have died in Western Australia; identifying care management trajectories
4034	Mental health risks and resilience among Western Australian healthcare workers responding to COVID-19
4057	Persistent lung and arterial inflammation following symptomatic COVID-19
4073	Androgen receptor expression in inflammatory bowel disease
4086	West Australian heart Valve Study (WAVES)
4089	Immersive virtual reality for upper limb function in spinal cord injury: clinician focus group
4103	Virtual reality training for early identification and de-escalation of violent and aggressive behaviour in WA Emergency Departments
4118	WO42312. A Phase II, randomized, open-label, multicenter study evaluating the efficacy and safety of gdc-9545 compared with physician's choice of endocrine monotherapy in patients with previously treated estrogen receptor-positive, her2-negative locally advanced or metastatic breast cancer
4122	Survival outcome of patients with acute gastric variceal bleeding in Western Australia between 1999 and 2019: A retrospective cohort study
4147	CAEL101-301: A Phase 3, Double-Blind, Multicenter Study to Evaluate the Efficacy and Safety of CAEL-101 and Plasma Cell Dyscrasia Treatment Versus Placebo and Plasma Cell Dyscrasia Treatment in Plasma Cell Dyscrasia Treatment-Naïve Patients with Stage IIIb AL Amyloidosis
4158	Impact of Telehealth for Neurological Patients, their Doctors and Care Providers during a pandemic: Possibilities for post-pandemic models of care
4183	Proof of concept study of RECCE®327 topical antibiotic therapy for infected burn wounds
4199	BIOTRONIK- First-in-Man Assessment of the Safety and Clinical Performance of a Sirolimus Derivative-Coated Coated Balloon (BRight DCB) in the Treatment of Subjects with de Novo Lesions in the Superficial Femoral and Proximal Popliteal Artery [BRight First Study]

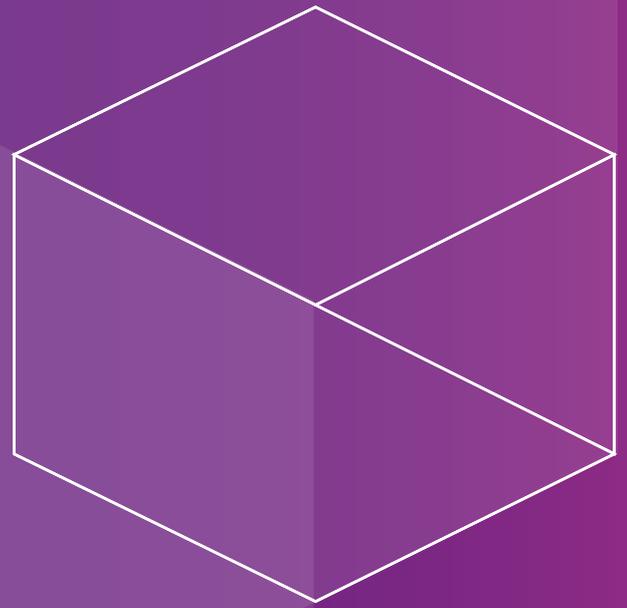
4205	The COVID-Recovery Study
4207	Age and frailty in the outcome of Non-Small Cell Lung Carcinoma treated with Immunotherapy
4211	An epidemiological case-definition of autoimmune encephalitis for use in national data-linkage projects
4213	Predictors of positive temporal artery biopsy
4222	ALLG AMLM24 / HOVON 156 AML / AMLSG 28-18: A phase 3, multicenter, open-label, randomized, study of gilteritinib versus midostaurin in combination with induction and consolidation therapy followed by one-year maintenance in patients with newly diagnosed Acute Myeloid Leukemia (AML) or Myelodysplastic syndromes with excess blasts-2 (MDS-EB2) with FLT3 mutations eligible for intensive chemotherapy
4223	Genetic predictors of cardiovascular disease and stroke risk in the Australian population
4232	Evaluating the effects of a structured exercise program on melanoma patients undergoing checkpoint inhibitor therapy
4238	Exploring the impact of occupational stress and burnout on the wellbeing of Intensive Care Nurses
4241	Deciphering the Mechanisms of Newborn Response to Infections
4243	ASCEND-CML (CML13): An ALLG single arm phase II study to evaluate the efficacy of asciminib in newly diagnosed patients with chronic phase chronic myeloid leukaemia
4244	ALLG MM23: An ALLG phase 3 randomised trial of Selinexor and Lenalidomide versus lenalidomide maintenance post Autologous Stem Cell Transplant for patients with Newly Diagnosed Multiple Myeloma
4246	VOLUME: Venous Observational Study of Leg Ulcer Management and Endpoints
4254	Can the Aussie-FIT healthy lifestyle intervention attract men with cardiovascular disease (CVD) and improve their health? A pilot feasibility study in the context of Australian football
4256	PURPLE: Pancreatic cancer: Understanding Routine Practice and Lifting End results (PURPLE) A Prospective Pancreatic Cancer clinical registry
4257	AMPLITUDE. A Phase 3 Randomized, Placebo-controlled, Double-blind Study of Niraparib in Combination with Abiraterone Acetate and Prednisone Versus Abiraterone Acetate and Prednisone for the Treatment of Participants with Deleterious Germline or Somatic Homologous Recombination Repair (HRR) Gene-Mutated Metastatic Castration-Sensitive Prostate Cancer (mCSPC)
4263	The One Project Study (TOPS) - One sample, One hour, One diagnosis
4264	CAEL101-302: A Phase 3, Double-Blind, Multicenter Study to Evaluate the Efficacy and Safety of CAEL-101 and Plasma Cell Dyscrasia Treatment Versus Placebo and Plasma Cell Dyscrasia Treatment in Plasma Cell Dyscrasia Treatment-Naïve Patients with Stage IIIa AL Amyloidosis
4273	Reducing the overuse of proven ineffective interventions in infants with bronchiolitis: Developing an evidence-based Bronchiolitis implementation support package for national roll-out
4277	Understanding the lifelong impact of a burn injury in adults (LIBA)
4279	Investigating brain function following burn injury using non-invasive brain stimulation
4284	Follow-up after curative treatment for Colorectal Cancer
4296	Intensive Care Unit (ICU) Consumer Research Survey
4301	Emergency department data to assess the impact of COVID-19 restrictions
4312	Efficacy and safety of once-daily oral semaglutide 25 mg and 50 mg compared with 14 mg in subjects with type 2 diabetes

4316	Emergency Department management of patients presenting with constipation
4318	A Phase III, Randomized, Double-Blind, Placebo-Controlled Study to Demonstrate the Efficacy and Safety of Tildrakizumab in Anti-TNF Experienced Subjects with Active Psoriatic Arthritis I (INSPIRE 1)
4319	A Phase 2, randomized, double-blind, placebo-controlled, multi-center study to evaluate GB004 in adult subjects with mild-to-moderate active ulcerative colitis
4325	A Randomized, Multi-center, Double-blinded, Placebo-controlled Phase 3 Study of Nivolumab and Ipilimumab, Nivolumab Monotherapy, or Placebo in Combination with Trans-arterial ChemoEmbolization (TACE) in Patients with Intermediate-stage Hepatocellular Carcinoma (HCC)
4326	Australian Diabetes High Risk Foot Service Database
4327	A Phase 1 Study to Evaluate Nebulised Conditioned Media of Mesenchymal Stromal Cells (MSC) for Treating Chronic Obstructive Pulmonary Disease (COPD)
4339	MK-6482-012. An Open-label, Randomized Phase 3 Study to Evaluate Efficacy and Safety of Pembrolizumab (MK-3475) in Combination with MK-6482 and Lenvatinib (MK-7902), or MK-1308A in Combination with Lenvatinib, versus Pembrolizumab and Lenvatinib, as Firstline Treatment in Participants with Advanced Clear Cell Renal Cell Carcinoma (ccRCC)
4353	Western Australia COVID-19 Immunity Collaborative Biobank
4354	A multi-centre, randomised, placebo-controlled pilot clinical trial of intravenous iron and erythropoietin in critically ill adults: ITHRIVE
4373	Clinical Study No. NA-1-009: A Multicentre, Randomized, Double-blinded, Placebo-controlled, Parallel Group, Single-dose Design to Determine the Efficacy and Safety of Nerinetide in Participants with Acute Ischemic Stroke Undergoing Endovascular Thrombectomy Excluding Thrombolysis (ESCAPE-NEXT Trial)
4374	Feasibility and effects of the Lung Cancer Prehabilitation exercise program
4381	Comparison of Bleeding Risk between Rivaroxaban and Apixaban for the treatment of acute venous thromboembolism
4387	A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study to Assess the Efficacy, Safety, and Tolerability of Brensocatib Administered Once Daily for 52 Weeks in Subjects with Non-Cystic Fibrosis Bronchiectasis
4388	The impact of the COVID-19 pandemic on interstitial lung diseases
4403	Registry of Australian and New Zealand Temporomandibular Joint Replacement Procedures (TMJ Registry)
4407	A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study to Compare the Efficacy and Safety of Sotatercept Versus Placebo When Added to Background Pulmonary Arterial Hypertension (PAH) Therapy for the Treatment of PAH
4421	Early and intensive motor training (versus usual care) to enhance neurological recovery and function in people with spinal cord injury (SCI)
4423	Keynote B61 A Phase 2, Single-arm, Open-label Clinical Trial of Pembrolizumab Plus Lenvatinib in Participants with First-line Advanced/Metastatic Non-clear Cell Renal Cell Carcinoma (nccRCC) (KEYNOTE-B61)
4425	Data analytics of activity movement in the hospital environment: assessing the effects of physiotherapy led rehabilitation in a burns affected population
4433	An investigator initiated and conducted, prospective, multicentre, randomised, outcome-blinded, study of antiplatelet monotherapy in patients with a history of stroke due to intracerebral haemorrhage (ICH)

4446	Can a screening tool administered in the Emergency Department identify patients at risk of developing ongoing musculoskeletal pain and disability?
4449	An Investigation of the Ideal Volume Prescription of Resistance Training for Muscle Strength in Acute Burn Injury
4471	MOR208C310: A phase 3, multicenter, randomized, double-blind, placebo-controlled trial comparing the efficacy and safety of tafasitamab plus lenalidomide in addition to R-CHOP versus R-CHOP in previously untreated, high-intermediate and high-risk patients with newly-diagnosed diffuse large B-cell lymphoma (DLBCL)
4477	POST-operative Variations in anaemia Treatment and Transfusions
4481	A phase III randomized, double-blind, placebo-controlled trial to evaluate the efficacy and safety of prm-151 in patients with idiopathic pulmonary fibrosis
4500	A Seamless Phase 1b Study to Evaluate Safety, Tolerability and Efficacy of SER-301 in Adult Subjects with Active Mild-to-Moderate Ulcerative Colitis
4508	MK-7684A-002. A Phase 2, Multicenter, Randomized Study to Compare the Efficacy and Safety of MK-7684A or MK-7684A Plus Docetaxel Versus Docetaxel Monotherapy in the Treatment of Participants With Metastatic Non-small Cell Lung Cancer With Progressive Disease After Treatment With a Platinum Doublet Chemotherapy and Immunotherapy
4517	The role of cardiac MRI in early screening for cardiovascular disease in idiopathic inflammatory myopathies (IIM); A pilot cross sectional study
4519	Randomised trial of Empagliflozin and Left ventricular diastolic function in Acute Coronary Syndrome and Type 2 Diabetes (RELACS-T2D)
4533	Clinical significance of myositis specific antibodies in interstitial lung disease
4535	DESTINY-Breast06. A Phase 3, Randomized, Multi-center, Open-label Study of Trastuzumab Deruxtecan (T-DXd) Versus Investigator's Choice Chemotherapy in HER2-low, Hormone Receptor Positive Breast Cancer Patients whose Disease has Progressed on Endocrine Therapy in the Metastatic Setting (DESTINY-Breast06)
4541	Mandibular subcondyle fractures: a 5-year retrospective analysis comparing treatment modalities
4557	An Open-label Study to Evaluate the Long-term Safety and Efficacy of CSL312 (Garadacimab) in the Prophylactic Treatment of Hereditary Angioedema
4572	Real-time data assisted burn injury debridement using Mass spectrometry (REASSESS)
4576	A randomized trial of evolocumab on saphenous vein graft patency following coronary artery bypass surgery (NEWTON-CABG)
4577	BGB-11417-103: A Phase 1b/2, Open-Label, Dose Finding, and Expansion Study of the Bcl-2 Inhibitor BGB-11417 in Patients With Myeloid Malignancies
4589	Conceptualising Artificial Intelligence Readiness (AIR) for Businesses
4602	Investigating the relationship between the experiences of stress and attitudes towards physical restraint events of nurses working in youth inpatient mental health: A cross-sectional observational study
4604	FUTURE-AS Registry: Feasibility and Utility of Anatomical and Physiological Evaluation of Coronary Disease with Cardiac CT in Severe Aortic Stenosis. Protocol 001
4618	A Phase 3 open-label, multicenter study of the long-term safety and efficacy of intravenous recombinant coagulation factor VIII Fc-von Willebrand factor-XTEN fusion protein (rFVIII-Fc-VWF-XTEN; BIV001) in Previously Treated Patients with severe hemophilia A
4630	Employee recruitment process to optimise midwife retention in WA

4637	INTERBLEED: study of risk factors for gastrointestinal bleeding and of the determinants of non-fatal and fatal cardiovascular events after gastrointestinal bleeding
4638	An Open-Label Non-Investigational Product, Multi-Center, lead-in study to evaluate prospective efficacy and selected safety data of current Factor IX (FIX) or Factor VIII (FVIII) Prophylaxis Replacement Therapy in the usual care setting of moderately severe to severe adult Haemophilia B Participants (FIX:C \leq 2%) who are negative for Neutralizing Antibodies to Adeno-Associated Virus Vector-SPARK100 (BENEGENE-1) and moderately severe to severe adult Haemophilia A Participants (FIX:C \leq 1%) who are negative for Neutralizing Antibodies to Adeno-Associated Virus Vector 6 (AAV6), prior to the respective therapeutic Phase 3 Gene Therapy Studies
4644	Investigating the Impact of Non-antimicrobial Drug Prescribing on Antimicrobial Resistance in a Western Australian Hospital
4645	Acute Stress Response to Non-Severe Burn Injuries
4647	Research Capacity and Culture (RCC) Survey for Mental Health Workers in Western Australia (WA)
4661	Who cares for the carer? Co-designing a novel service to support health and wellbeing of older carers of older people
4665	A Phase 3, Multicenter, Open-Label, Long-Term Extension Study to Evaluate the Long-Term Efficacy and Safety of Mirikizumab in Patients with Crohn's Disease
4673	VITAFoot- a pilot randomised controlled trial of vitamin supplementation in people with diabetes-related foot ulcers
4676	VANTAGE: Evaluation of TAVR using the NAVITOR™ valve in a Global Investigation
4678	Outcomes of Cartilage Lesions of the Knee Treated with Chondral Restoration Procedure
4689	An observational cohort study to assess agreement rate between clinician diagnosis and questionnaire-based parent report of infant food allergy administered using the SmartStartAllergy Application
4695	Golden Gate Study / 20190360: Phase 3 Randomized, Controlled Study of Blinatumomab Alternating with Low-Intensity Chemotherapy versus Standard of Care for Older Adults with Newly Diagnosed Philadelphia-negative B-Cell Precursor Acute Lymphoblastic Leukemia with Safety Run-In
4696	Metabolic phenotyping of epicardial and subcutaneous fat using nuclear magnetic resonance spectroscopy and mass spectrometry
4698	GS-US-546-5857: A Phase 3, Randomized, Open-Label Study Evaluating the Safety and Efficacy of Magrolimab in Combination with Azacitidine versus Physician's Choice of Venetoclax in Combination with Azacitidine or Intensive Chemotherapy in Previously Untreated Patients with TP53 Mutant Acute Myeloid Leukemia
4706	Modulating Cardiovascular Risk in Inflammatory Bowel Disease Patients
4710	Clinical prognostic factors associated with survival of Motor Neuron Disease patients with gastrostomy in an Australian healthcare setting
4720	Switching patients from intravenous to subcutaneous infliximab in inflammatory bowel disease
4727	CARTITUDE-5: A Phase 3 Randomized Study Comparing Bortezomib, Lenalidomide and Dexamethasone (VRd) followed by Ciltacabtagene Autoleucel, a Chimeric Antigen Receptor T cell (CAR-T) Therapy Directed Against BCMA versus Bortezomib, Lenalidomide, and Dexamethasone (VRd) followed by Lenalidomide and Dexamethasone (Rd) Therapy in Participants with Newly Diagnosed Multiple Myeloma for Whom Hematopoietic Stem Cell Transplant is Not Planned as Initial Therapy

4731	Efficacy and safety investigation of NNC0194-0499 co-administered with semaglutide in subjects with non-alcoholic steatohepatitis: a dose-ranging, placebo-controlled trial
4732	Validating the Obstetric Quality of Recovery Tool in Vaginal and Caesarean Delivery
4756	A Randomized, Double-Blind, Placebo-Controlled, Dose Ranging Study to Evaluate the Safety, Tolerability, and Efficacy of AXA1125 in Subjects With Non-Cirrhotic, Non-Alcoholic Steatohepatitis and Fibrosis (EMMPACT)
4784	Addressing the barriers to effective exercise for patients with non-alcoholic fatty liver disease: A supervised study involving exercise, questionnaires and interviews
4789	Postoperative pulmonary outcomes in the ENIGMA 2 trial: A post hoc analysis
4791	Australian Retrospective Audit of Patients with Amyloidosis
4797	A Prospective, Multi-center Clinical Study to Evaluate the Safety and Performance of the FAST-FIX FLEX System for Meniscal Repairs (MR) and Meniscal Allograft Transplantations (MAT)
4808	DA VINCI: Do stAtins faVourably modify atherosclerotic plaque in patients with differeNt levels of polygenic Cardiovascular (CV) risk
4821	Understanding the delirium risk from skin
4849	Utilising Artificial Intelligence to optimise ophthalmology resources at Fremantle Hospital for patients with diabetes
4868	A Phase 2, Randomized, Double-Blind, Placebo-Controlled, Dose-Ranging Study to Evaluate the Safety and Efficacy of ABBV-154 in Subjects with Polymyalgia Rheumatica (PMR) Dependent on Glucocorticoid Treatment
4918	ACTION: Optimising educAtion for the ESCALATION SysTem through clinical simulatiON
4933	Effects of freezing and thawing on human platelet viability and function
4935	Effect of Nasal High-Flow Oxygen Therapy on Patient-Centred Outcomes in Patients at High Risk of Postoperative Pulmonary Complications After Cardiac Surgery: A Multicentre Randomised Controlled Trial
4959	Evaluating the clinical- and cost-effectiveness of upgrading cochlear implant sound processors
4970	ORBIT-m: Optimal Response Biome for ImmunoTherapy in Melanoma
4998	Attitudes and beliefs towards low back pain held by clinicians in the multi-disciplinary Emergency Department team
5201	Current acceptance, attitudes and perceptions of covid19 vaccine among pregnant women in Western Australia



Publications

Publications

Publications list

The publications list below was collated following detailed searches by the library team for published works by SMHS researchers or staff, or researchers who have conducted research at an affiliated SMHS site. This list is not exhaustive as the data is difficult to obtain and if staff have not cited their organisational affiliation they may not appear in the results.

Methodology

Medline and Embase were searched to identify publications by SMHS staff. As not all staff cited their SMHS institutional affiliation some additional citations were tracked. A limited number of book chapters were also identified. **586** citations were identified.

In the 2020 Research Report, there were 77 papers cited that were published 'in press' or 'online early'. The 77 citations reappeared in 2021 searches but were not included in this 2021 report. There is a growing number of 'in press' / 'online early' articles discoverable in one year that reappear in the following year with final additional citation data (volume, issue, pagination).

For consistency and to avoid double counting over two years, it was decided to count the publications in the year in which they first appeared (including 'in press' / 'online early') and to exclude them from the following year's report.

There are multiple authors, especially within the collaborative studies; the publications list denotes 'et al.,' meaning 'and others', when there are more than six authors.

Further information about SMHS publications can be found online: [Lens](#)

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