

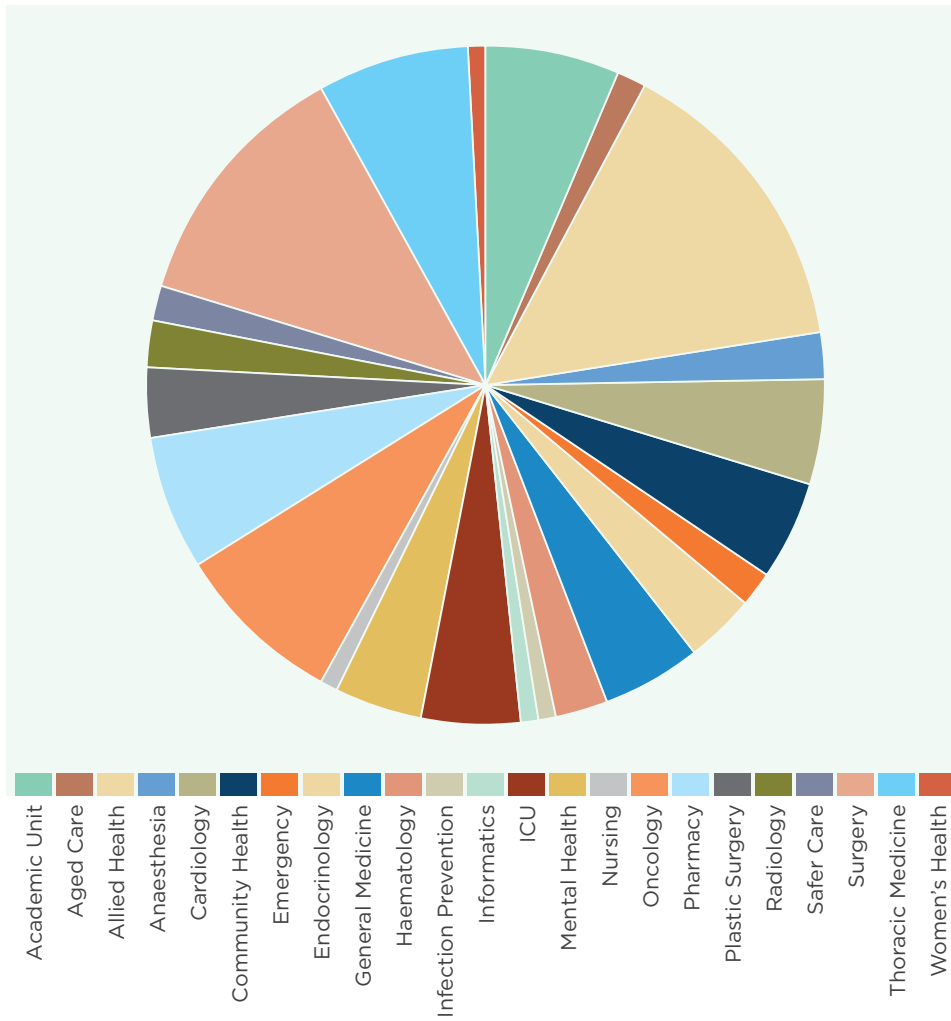


Peninsula
Health

2020

Research Report

RESEARCH ACTIVITY BY DEPARTMENT

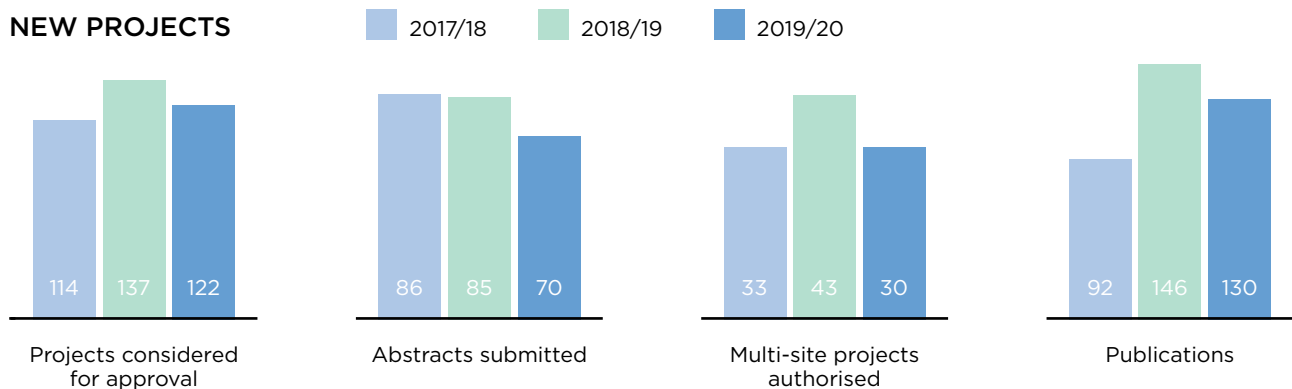


PhD STUDENTS 2020



TOTAL 15

NEW PROJECTS



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Acknowledgements

Peninsula Health acknowledges the contribution made by all staff involved in research. The Research Report 2020 showcases some of these projects, and recognises the many ongoing projects and commercially sponsored, collaborative group and investigator-initiated trials in areas such as Allied Health, Anaesthesia, Cardiology, Cancer Services, Community Health, Emergency Medicine, Intensive Care, Mental Health, Nursing, Surgery and Thoracic Medicine that have the potential to improve the care we offer our patients.

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“COVID-19 has created an environment that has changed the way healthcare is provided, making opportunities for testing and evaluating new ways of healthcare provision – and our researchers are actively involved in these activities.”

A message from the Professor of Medicine

It is once again my pleasure to present the 2020 Research Report. This has been a tumultuous year with the COVID-19 pandemic affecting our community and the health service, with consequent disruption of many routine business operations.

While it is understandable that usual research activities may have slowed somewhat, we have still continued to make progress in our research growth. Of note is the commencement of activities in the National Centre for Healthy Ageing, with significant efforts underway to develop a large data platform for research use, as well as the initiation of pilot funding rounds for 'living lab' collaborative projects together with our colleagues at Monash University. I foresee that these activities will substantially shape future research within Peninsula Health, and I look forward to developments in this regard.

There have been several individual instances of research excellence – notably the successful completion of a major investigator-initiated multicentre clinical trial of colchicine in secondary prevention of cardiovascular disease by researchers from the Cardiology Unit at Peninsula Health. This is a first for Peninsula Health and one that places us squarely in the research limelight internationally.

In collaboration with Monash University, we have made substantial progress in organising structures for managing clinical trials and research funding in a way that

provides departments extra incentive to participate in research.

COVID-19 has also created an environment that has changed the way healthcare is provided, making opportunities for testing and evaluating new ways of healthcare provision – and our researchers are actively involved in these activities. Also, the availability of research expertise amongst us in large data has enabled a close look at the way healthcare is being utilised by the community during the pandemic. Interestingly, the need for virtual meetings during COVID-19 now opens us to a new world of being able to have national and international researchers present to us their knowledge and findings, which we will capitalise on in the foreseeable future.

Finally and importantly, on behalf of our clinical and research community, I am very proud to announce the launch of the 2020-2024 Research Strategic Plan, which sets out a roadmap for research growth. The Strategic Plan is available on our website and I urge you all to read it if you get a chance. A summary of the Plan and our exciting vision for research at Peninsula Health is also detailed in this Report.

My sincere congratulations to all involved in the continuing growth of our research, particularly during a very difficult year. Stay safe and healthy.

Regards
Velandai Srikanth
Professor of Medicine

A new roadmap for growth, innovation and excellence in research

Enabling the delivery of world class health outcomes for the Frankston and Mornington Peninsula community is at the core of Peninsula Health's 2020 - 2024 Research Strategic Plan.

The Strategic Plan solidifies the health service's status as an emerging leader in research and innovation, incorporating a greater focus on translational research projects in high priority areas such as healthy ageing and chronic disease.

"This Strategic Plan is a roadmap that will allow Peninsula Health to expand its research capability and profile, and stack up against other big players in the field," says Peninsula Health Professor of Medicine, Velandai Srikanth.

"Over the past five years we have been building a robust research culture, developing key priorities, obtaining funding and thinking about the infrastructure required for high-quality research."

"Now is the time to capitalise on that work and begin to really progress our research capabilities forward," adds Professor Srikanth.

The Plan incorporates four key pillars: conducting high-quality and translational research projects, enhancing support and resources to Peninsula Health staff involved in research, strengthening local and national partnerships to better engage with the community, and establishing world class research facilities.

Research projects already being conducted span several areas including ageing and rehabilitation, intensive care, specialty medicine, surgery and anaesthesia, allied health and community care. Newer areas of focus will involve mental health, addiction, women's and children's health, and areas linked to the discipline of nursing.

A central component of the Research Plan is the establishment of the National Centre for Healthy Ageing (NCHA). With a focus on developing a world-leading data platform to reliably measure and monitor changes to models of care, the NCHA will position Peninsula Health as a leader in healthy ageing research, innovation and development.

"The NCHA has the capacity to take research to another level at Peninsula Health," says Professor Srikanth.

"If you are going to undertake research projects that aim to improve community health and prevent ageing-related health decline, you need to ask yourself: how do you evaluate that? How do you efficiently and robustly measure that?"

"Today, that evaluation and measurement is achievable through reliable, research-ready, large-scale and routinely collected data including those from electronic health records, which is what we hope the NCHA will allow us to do," adds Professor Srikanth.

"This data platform will not only have an impact on research capability within the Peninsula, but also contribute to solving key issues of national importance."

Also at the core of the Strategic Plan is the development of both a robust research workforce and culture within Peninsula Health, a major focus over the next five years.

"Ultimately, without the right people, research can't take off," says Professor Srikanth.

"We want to create an environment within our health service whereby people have time to focus on research, and are backed by proper research training."

“It’s ultimately a question of how we can create the ability for departments within Peninsula Health to build capacity for research, and build solid research platforms. That takes a while, and is a longer-term objective, but something we want to start now.”

While the next five years will see Peninsula Health take major steps in solidifying itself as a leader in research, Professor Srikanth says the Strategic Plan is an important building block in enabling the development of models of care that actively engage the Frankston-Mornington Peninsula community.

“The research we aim to undertake is two-fold. On the one hand, we will study how models of care that are developed within our health service impact on people’s health,” explains Professor Srikanth.

“However, there is another important side to it, which is looking into how we enable people living in the community to be active participants in their health as they age.”

Empowering consumers to participate in their healthcare is key to providing person centred care.

“Healthcare should never be a matter of a service saying ‘we know how to look after your health and we will tell you how to do it’. Instead, we want members of

our community to be active participants in designing and shaping their care,” says Professor Srikanth.

“This is a long-term vision and a concept at this stage, but a concept well worth working towards.”

Peninsula Health has unveiled its five-year research blueprint with the publication of its 2020 – 2024 Research Strategic Plan.

Underpinned by a vision of providing exceptional healthcare driven by excellence in research, the Strategic Plan incorporates an increased focus on healthy ageing and chronic disease – areas that are considered high priority.

The 2020 – 2024 research roadmap incorporates four key pillars:

- 1. Conducting high-quality and translational research projects**
- 2. Enhancing support and resources to Peninsula Health staff involved in research**
- 3. Strengthening local and national partnerships to better engage with the community**
- 4. Establishing world class research facilities.**

Research begins at the National Centre for Healthy Ageing

The National Centre for Healthy Ageing (NCHA) will create better integrated care models to promote health and wellbeing across the lifespan and drive improvements in the way people seek out and access care.

A joint collaboration between Peninsula Health, Monash University and the community, the NCHA is ramping up to become Australia's leading health service research, development and implementation hub focused on healthy ageing.

Based at Frankston Hospital and Monash University Peninsula campus, the NCHA is situated in a community with a unique population demographic and health service provider setting, making it an ideal ecosystem in which to research, explore, test and implement new and innovative models for supporting healthy ageing.

The first members of the Centre's team have been appointed and have begun laying the foundations for this large-scale research.

Improving the health of our community with technology

Monash University Associate Professor Richard Beare does not shy away from admitting how much he enjoys solving 'computational problems.'

A/Prof Beare joined the Peninsula Clinical School at Frankston Hospital in 2017, bringing with him an expertise in bioinformatics and imaging.

Over the past three years he's been conducting high-quality translational research into chronic conditions affecting the ageing population.

"The focus of my undergraduate and postgraduate training centred around electrical engineering, computer science and physics," says A/Prof Beare, who has joined the National Centre for Healthy Ageing (NCHA) as Technical Lead for the data platform project.

"Since then, I've spent most of my career developing computational tools, especially image processing, to support medical research."

"Before moving into the world of medical research, I worked at the CSIRO in a specialist image analysis group."

A/Prof Beare's main focus in his role with the NCHA will be to investigate how advanced computational tools can be used, especially artificial intelligence and natural language processing, to "do interesting new things with hospital data."

"I helped develop the data platform concept, with A/Prof Nadine Andrew and Prof Velandai Srikanth," says A/Prof Beare.

"I think hospital data represents an interesting technical challenge that, if we can crack it, will make an important difference in a variety of areas in health."

"The data platform will allow us to efficiently measure all sorts of things about the health service, and groups of people, that are currently hard to measure," adds A/Prof Beare.

"Once we can measure something, we will stand a better chance of improving it."

Understanding data in better ways to make a difference

Epidemiologist Associate Professor Nadine Andrew's passion for health service research comes to the fore, when she speaks about her new role at the NCHA.

Beginning her work as Research Data Lead, A/Prof Andrew is excited by the opportunity the NCHA has in becoming a national exemplar of how to deliver best practice healthcare to promote healthy ageing.

"Since the introduction of electronic health records, health services and researchers have been grappling with how to efficiently utilise the vast amount of data that is being collected within health systems to improve healthcare delivery and patient outcomes," says A/Prof Andrew, an epidemiologist and former physiotherapist who practised in community health.

"The NCHA data platform is an amazing opportunity to build a system that maximises the use of this data to support research and quality improvement activities around models of care that will improve the health of the local community whilst developing solutions for nationally important healthcare dilemmas."

A/Prof Andrew is behind the design of the data platform that was part of the original NCHA proposal back in early 2019. This role comes after having made a name for herself while at the helm of several other large data linkage projects in the

area of stroke and ageing, with a focus on enhancing cross-sector management and long-term community-based care to improve patient outcomes.

"The primary aim of the data component is to support the living labs program by providing timely robust data for testing real-world solutions to support healthy ageing," adds A/Prof Andrew.

"Without robust data that is integrated across systems it is not possible to determine if a new way of delivering care has been effective, if it has had any negative consequences, or if a change in one part of the system has had negative consequences on another part of the system."

A/Prof Andrew notes that this is particularly important for older people who are frequent users of multiple systems. Good quality data will allow the NCHA to monitor and therefore improve the quality of care that people receive.

"Being part of something like this is an amazing opportunity from both a personal and professional perspective," says A/Prof Andrew.

"The thing that excites me the most is that we have the opportunity to become a national exemplar of how to deliver best practice healthcare to promote healthy ageing."

"We have the opportunity to become a national exemplar of how to deliver best practice healthcare to promote healthy ageing."



Understanding the role of data in improving models of care

Another recent addition to the National Centre for Healthy Ageing team is Mornington Peninsula local Dr Emily Parker, who says she's 'excited' about helping with research that will improve models of care and have a direct impact within the local community.

Joining in late July as the NCHA's Data Platform Project Coordinator, she is responsible for coordinating the development phase of the data platform, developing data management and ethics, governance, data access and sharing processes of the research platform and related policies and procedures.

"This will include engaging with key stakeholders, coordinating platform-related working groups and providing research support to the Research Data Lead and leadership across Research Data Platform activities," says Dr Parker.

"Contributing to the early phase establishment of the NCHA data platform is a unique and exciting opportunity to be involved in."

Dr Parker previously spent 12 years at Monash University as a Project Manager in the School of Public Health and Preventive Medicine, working across multiple projects

including the ASPirin in Reducing Events in the Elderly (ASPREE) Clinical Trial, ASPREE Healthy Ageing Biobank and the Australian Breast Device Registry.

"This role involved many aspects of project management from early phase feasibility scoping, project set up, stakeholder engagement or reporting and sample access and governance," says Dr Parker.

She says the various programs within the NCHA will facilitate the utilisation of good quality data to drive improvements in the way people seek out and access care and promote health and wellbeing across the lifespan.

"I live locally and have been following the development of research groups on the Mornington Peninsula for some time, so I was excited to see increased funding awarded to support local infrastructure and research," adds Dr Parker.

"The National Centre for Healthy Ageing will add value to the health and research environment on the Peninsula and encourage and foster collaboration between multiple stakeholders, in addition to being a world class resource for researchers and people living in the area."

Finding better links to prevent the preventable

Tanya Ravipati is delving into the structure of Peninsula Health's data, in her role as the newly appointed Data Platform Analyst.

The IT Manager has joined the NCHA team from the Department of Health and Human Services, where her role involved advising the Minister for Prevention of Family Violence about budget performance and allocation.

"It's a bit of a change for me," says Ms Ravipati. "At the moment I'm auditing the existing Peninsula Health Data Warehouse structure, which is quite an exhaustive task."

"This includes looking at things like data elements and linkages, implementing quality improvement activities related to data entry and coding, establishing stakeholder working groups to understand the requirements of the platform and developing relevant policies and procedures."

Ms Ravipati is passionate about maximising existing resources to prevent future problems for health system users, which is why she was drawn to join the NCHA.

"I feel privileged to be part of such a cause," she adds. "The NCHA's seeking to optimise the existing data collection to ensure broader research requirements and testing of models of care through the optimised purpose-built data platform - this is something I'm really passionate about."

Ms Ravipati can already see how important a role the NCHA will play in helping avert any preventable health conditions in the aged population, ultimately reducing demand on local health services in the future.

"Currently, the health data collection is siloed and more often than not has issues with data linkages and systems compatibility to understand a consumer's long-term end-to-end journey within the health services and their requirements," says Ms Ravipati.

"The NCHA data platform allows the researchers and other end-users to understand the consumer's health requirements, which in turn will provide an opportunity to conduct predictive analysis and improve the models of care for patients."

"The National Centre for Healthy Ageing will add value to the health and research environment on the Peninsula and encourage and foster collaboration between multiple stakeholders, in addition to being a world class resource for researchers and people living in the area."

Decoding dementia to determine the best ways to care for our community

Identifying trends in dementia within our community is more important than ever.

That's why Peninsula Health has positioned itself at the forefront of dementia research, undertaking a major project that focuses on generating high-quality and reliable data to enhance its monitoring, management and care of people with the condition.

The project, funded by the National Health and Medical Research Council (NHMRC) and undertaken in conjunction with Monash University, not only aims to reliably track the prevalence of dementia within the Frankston-Mornington Peninsula region, but also associated risk factors, management practices and outcomes.

"This research is vitally important," says Peninsula Health Clinical Research Nurse Bridget O'Bree.

"We have an ageing population with an increased rate of dementia. It's essential that we are able to get an understating of how many people in our community live with the condition, so that we can adequately and accurately determine the resources that are required to care for our people."

The research is progressing in two stages.

Stage One involves developing methods for identifying people who live with dementia, based on de-identified data from Electronic Medical Records (EMRs). These methods will then be validated against a defined cohort of Frankston and Mornington Peninsula community members who live with dementia, and a group who have been assessed to not be living with the condition.

In Stage Two, the methods will then be used to estimate the frequency of dementia within the region, through combining EMR data with

a range of other reliable health data sources held at both state and national levels. These estimates will then be used to calculate the national prevalence of dementia to inform government policy and allocation of health resources both locally and nationally.

The project is currently at the beginning of Stage One.

"Ultimately, our hope with this research is that we can develop more accurate ways of determining the prevalence of dementia in any given community," says Ms O'Bree.

"This has major implications not only for Peninsula Health, but other health services and policy makers more broadly."

In profile: Research Nurse Bridget O'Bree

When Bridget O'Bree joined Peninsula Health's Academic Unit two years ago, she was no newcomer to the health industry.

Nearing her twentieth year as a Registered Nurse, Ms O'Bree has extensive experience in frontline healthcare, organ donation and medical research.

Today she is a Clinical Research Nurse at Peninsula Health and is playing an integral part in the health service's dementia research project. Central to her role is engaging local community members and establishing the population cohorts against which the methods will be validated, as part of Stage One.

"At the end of the day, I just really enjoy working with people and the broader community, engaging them about different things that can impact upon their health and wellbeing," says Ms O'Bree, reflecting on her Clinical Research Nurse role.

“For me, it’s all about being that bridge between the health service and the community, bringing everything together.”

Since August this year, Bridget has been in daily contact with various community members who met pre-existing criteria and may be eligible to take part in the study. Communication has come in many forms, mainly through letters following a mass-scale mail out, and multiple telephone calls. In these calls, Ms O’Bree outlines the basis and structure of the study, explains how participant data will be stored and used, and performs preliminary screening tests.

With the project still in its early stages, Bridget acknowledges how important the research is on both a local and national scale.

“Developing a novel system by which we can accurately monitor and track the number of people living with dementia is really important,” says Ms O’Bree.

“This is important not just for Peninsula Health, but for the whole of Australia.”

Peninsula Health is at the forefront of dementia research.

It is developing sophisticated methods for producing high-quality and reliable data, all of which will help monitor the prevalence of dementia within the community alongside the associated risk factors, management practices and outcomes.

The research team, led by Professor Velandai Srikanth, includes Associate Professor Nadine Andrew, Dr Jenni Ilomaki, Professor Simon Bell, Associate Professor Richard Beare, Professor Amanda Thrift, Mr John Clark-Kennedy, Dr Lan Du, Mr David Ung, Ms Bridget O’Bree, Dr Taya Collyer and Ms Elizabeth Le.



Investigating whether a common gout medication improves outcomes after heart attacks

In the first Australian multicentre clinical trial to be led by Peninsula Health, Professor Jamie Layland is investigating the impact of common gout medication colchicine, in patients with acute coronary syndrome.

“There is an increased risk of further heart attacks, strokes and death after you have a heart attack,” explains Professor Layland, a cardiologist at Peninsula Health.

“That risk is approximately 20% and we are always trying to reduce that risk.”

One of the factors that contributes to this ongoing risk is inflammation.

“We know that patients who have a higher level of inflammation after a heart attack tend to do worse. So we have been trying to target inflammatory pathways to see if this will improve outcomes,” adds Professor Layland.

Many researchers have investigated the impact of different anti-inflammatory drugs on cardiovascular outcomes post-heart attack, with mixed results. However, recently two trials examining the impact of colchicine in patients with cardiovascular disease showed some promising results.

“Colchicine is a commonly used gout tablet which is a broadly acting anti-inflammatory agent,” says Professor Layland.

“There was some data to suggest that colchicine could have benefit in patients with ischaemic heart disease. We undertook this trial to see if it reduced recurrent events after a heart attack.”

Professor Layland, together with PhD student Dr David Tong, began the investigator-initiated COPS Trial (COLchicine in Patients with acute coronary Syndromes), with limited funding from Peninsula Health but without backing from a pharmaceutical company.

The multicentre, double-blind, randomised, placebo-controlled trial ran over 17 centres in Australia.

“This has been done on the back of goodwill of the clinicians involved in the study – there was no financial remuneration for recruiting patients,” says Professor Layland.

“This was a five year project led by Dr Tong and myself with help from the research nurse team. It involved a lot of visits to the study sites across the country and lots of contact with them all.”

There are 795 patients taking part in the trial. Half of the patients were given colchicine, the other half a placebo.

“The longer follow-up data is promising, as it suggests there is a cumulative effect of the colchicine. We hope in the two year data the effect will be much greater.”

In September 2020, Professor Layland and Dr Tong published the results from the first 12 months of follow-up with trial participants in leading journal *Circulation*.

“We showed that over the 12 months, although there was a numerically lower number of events in the colchicine group, it didn’t meet the threshold for being significant although there was a promising signal,” explains Professor Layland.

“The longer follow-up data is promising, as it suggests there is a cumulative effect of the colchicine. We hope in the two year data the effect will be much greater.”

The research has already garnered international interest, being selected as a late-breaking clinical trial at the European Society of Cardiology Conference, Amsterdam 2020, where Professor Layland was asked to present findings from the study.

Gout is a common and painful condition that affects the joints. Small crystals form in and around the joint, causing inflammation, pain and swelling. Colchicine is commonly used to treat this.

There have been only two previous international trials of this drug in people with coronary disease, which is why many cardiologists around the world are interested in the results of this Peninsula Health led study.

The other two trials suggested benefit, but more research is needed in this space.

Cardiovascular disease is the leading cause of death in Australia, according to the Heart Foundation.

Rapid response calls in a COVID-19 environment

Peninsula Health has undertaken a survey-based study exploring staff attitudes and perspectives when responding to rapid response calls (RRCs) for patients with suspected or confirmed COVID-19.

The study arose following the roll-out of the 'Code-95' announcement system across the health service. A 'Code-95' qualifier has been added to RRCs in order to alert healthcare staff about a patient's COVID-19 status.

"The reason we wanted to conduct this study was because there was heightened anxiety amongst healthcare workers about the risk of COVID-19 infection," says Peninsula Health Consultant Intensivist and research lead, Dr Ashwin Subramaniam.

"Responding to an emergency call for a patient with suspected or confirmed COVID-19 gives rise to a number of important considerations including appropriate Personal Protective Equipment (PPE), infection control policies and effective lines of staff communication, all of which can contribute to these anxieties."

A comprehensive, 48-question anonymous survey focusing on staff experiences when attending 'Code-95' RRCs was used.

From the 297 survey responses that were analysed, 86.7% of respondents reported being anxious while caring for patients with suspected or confirmed COVID-19 infection, the anxiety being greater in medical staff. A high proportion (92.6%) of staff responding to Code-95 calls experienced anxiety when compared to those who were primarily caring for these patients (58.8%).

The study also found that respondents felt they would benefit from more training and support, signage and enhanced communication devices, with much work already completed in these areas to address this.

Dr Subramaniam says these results will help the health service continue to refine its policies moving forward, with further focus on training, support and resourcing.

"We feel that as long as we have a proper support system and adequate PPE, 'Code-95' calls will be an additional useful safety net to pre-warn staff attending to patients that pose a high infection risk, and improve the quality of care provided to our patients," says Dr Subramaniam.

"Responding to an emergency call for a patient with suspected or confirmed COVID-19 gives rise to a number of important considerations."



Investigating the COVID-19 impact on pregnant women

Maternity specialists at Peninsula Health and Monash University have undertaken unique research to examine the experiences of pregnant women during COVID-19.

Led by Consultant Obstetrician and Gynaecologist Dr Kiran Atmuri, the study encouraged women to contribute to their care by inviting them to share their perspectives on the challenges of being pregnant during a pandemic.

It represented a proactive approach by Peninsula Health's Maternity Service to improve the care of pregnant women and their overall wellbeing.

"The idea for the study was largely formed by my own observations in clinic and the birth unit that women were understandably worried about being pregnant during the pandemic and changes in practice affecting their pregnancy," says Dr Atmuri.

"There was a lot of research at the time on risks of COVID-19 as an infection, but not a lot on the experiences of pregnant women. That was a research gap I wanted to address."

Through the study, Dr Atmuri and associate investigator Dr Arunaz Kumar from Monash University, conducted semi-structured interviews with pregnant women, who spoke about a range of issues including how they were feeling during the pandemic, aspects that were concerning them and matters relating to their care.

"As maternity specialists, it's important for us to be woman-centred and this research allowed us to do that," says Dr Atmuri.

"Participants were grateful to be a part of the research and keen to provide feedback, knowing that we were listening to them and wanting to hear what they had to say."

Having completed an in-depth qualitative analysis of the data, Dr Atmuri hopes the new insight will support Peninsula Health's continued focus on a woman-centred approach.

"Now that we have this understanding, what we hope is to support a woman-centred pregnancy journey and empowerment through education and responding to women's specific concerns," says Dr Atmuri.

Discovering how COVID-19 is changing education for the next generation of doctors

Surgical researchers from Peninsula Health would like to better understand how junior doctors perceive their education and training amid the COVID-19 environment.

Plastic, Reconstructive and Hand Surgeon Mr Marc Seifman, the lead researcher in the study, says while the fight against COVID-19 will roll into 2021, the training of medical staff continues in a very different way, and has shaken up traditional models of workplace-based medical education.

“Medical education and caring for patients goes hand in hand,” explains Mr Seifman.

“For centuries junior doctors have been educated as they work. It goes beyond career progression and accolades. Medical education is integral to a doctor’s clinical experience, and contributes to overall job satisfaction. Despite the changes to healthcare provision forced upon us by the pandemic, education is an element in the career of a junior doctor that does not wait. In fact, there may be opportunities for a broadened educational experience.”

The study Mr Seifman’s team is conducting explores the perceptions junior medical staff have about their education and training during this pandemic. Researchers are using an anonymous survey at three time-points throughout the pandemic, to allow for changes in perceptions to be compared.

“We’ll be engaging with junior medical staff across all disciplines and from the intern to registrar levels at both Peninsula Health and Monash Health,” says Mr Seifman.

“We are hoping to understand the disruptions and opportunities in the educational and training experience of junior medical staff.”

“There may be lessons derived from this situation regarding what is taught, how education is delivered, how clinical educators can better cater to those they teach and how clinicians can be advocates for ensuring the continuity of education and training even in times of crisis,” adds Mr Seifman.

The researchers are hoping their findings will guide education and training practices in the future. Perhaps more importantly, Mr Seifman says they also believe this research will provide insight into how to better meet the education and training needs of junior doctors in general.

“In times of particular strain and crisis lessons can be learnt that allow for systems and processes to improve,” explains Mr Seifman.

“Medical education is integral to a doctor’s clinical experience, and contributes to overall job satisfaction.”

Social distancing in the workplace

Establishing robust social distancing policies quickly became an important component of Peninsula Health's response to COVID-19.

Informing these policies was a survey-based study undertaken by a team of researchers who sought to capture staff understanding and perceptions of social distancing.

“The aim of the survey was to try and identify supports and barriers to social distancing for staff and the likelihood of practicing these measures long-term,” says Hospital Medical Officer and principal researcher, Dr Arthavan Srithar.

“Ultimately, understanding the beliefs and perceptions of staff members regarding social distancing can help health services like ours to implement important policies and changes.”

The thirteen survey questions were informed by two preceding observational audits of wards across Peninsula Health sites. These audits allowed the research team to gather evidence of staff compliance with social distancing and, if not, possible reasons why they were not following the practice.

Following completion of the survey and an analysis of the feedback, Dr Srithar and his team presented the data internally at Peninsula Health. This led to some changes throughout the health service, to encourage more staff to keep their distance.

“Following our data, key decisions from the COVID-19 Taskforce such as placing signage specifying the maximum number of people allowed in rooms and spaces have made it easier for staff to identify when there is improper social distancing occurring.”

While the research was undertaken through a COVID-19 lens, Dr Srithar believes social distancing will remain a key feature within Peninsula Health for the foreseeable future.

“Interestingly, it seems that most staff believe social distancing plays a crucial part in reducing hospital-acquired infections as a whole, not just for COVID-19,” says Dr Srithar.

“The majority of staff also reported that they were likely to continue these practices even after the resolution of the current pandemic.”



Image: COVID-19 Screening Clinic staff at Frankston Hospital.

Taking a closer look at injuries during the pandemic

Researchers are investigating changes to injury patterns during the early stages of the COVID-19 pandemic.

The in-depth audit will examine those treated at Peninsula Health's Plastic, Reconstructive and Hand Surgery Unit at Frankston Hospital over a six-month period this year, to see which injuries have been most prevalent among patients.

"Plastic surgery units around the world have reported changes in injury patterns," says Mr Marc Seifman, the study's lead investigator and a Plastic, Reconstructive and Hand Surgeon across multiple Victorian health services.

"What we have been seeing particularly here in Australia is home-based injury rates increasing, including home handyman and construction injuries."

"Home has become the workplace, it's become the classroom, it's changed the way we do business and it's changed the way we live our lives at this point in time."

With Victoria's COVID-19 restrictions changing the way communities spend their

time, Mr Seifman says there has also been decreases in other forms of injuries people might otherwise sustain.

"Conversely, motor vehicle accidents and sporting injuries are reduced, and that has impacted upon some of the urgent plastic surgical caseload we would otherwise normally treat," adds Mr Seifman.

"What we're trying to do is really obtain a clear picture of how the injury patterns are changing, because of the way people are living in this COVID-19 environment."

Mr Seifman says the research will also look at how long patients have been waiting before presenting to hospital with an injury.

"If people are putting off seeking important medical care it could be making a critical difference to their quality of life," says Mr Seifman.

"This study will improve our understanding of how community behaviour drives injury rates. This could form the basis for adjusting policies, to account for these changes in types of hospital presentations."

Understanding the impact of COVID-19 on hospitalisations for urgent conditions

Researchers will delve deep into four years' worth of statistics, to paint an accurate picture of how COVID-19 has changed the way people present to the health service.

The study aims to provide a clear and robust picture of how the crisis affected the number of presentations to Emergency Departments (EDs) at Frankston and Rosebud Hospitals and admissions to acute and subacute care using advance forecasting techniques.

Research Fellow at the Peninsula Health Academic Unit Dr Taya Collyer says the study was borne out of media reporting and preliminarily analyses in scientific journals, pointing to profound and dramatic decreases in the number of people attending hospitals for treatment.

"We are taking special care with our statistical methods," says Dr Collyer, a biostatistician with more than seven years experience in clinical research, primarily in studies of older people.

"Many early analyses we've been seeing in the media have compared 2020 hospital activity to 2019 data, which is not statistically ideal as this doesn't account for underlying trends."

"We were discussing within the Academic Unit what would be the ideal method, and agreed that a forecasting approach was appropriate."

This means Dr Collyer and the research team will look at admissions and presentations following March 1 2020, comparing those figures to predicted admissions and ED presentations for the same period, generated via statistical forecasts drawing on data from January 2014 to December 2019.

"So rather than comparing activity in 2020 to 2019, the researchers are using four years of historical data to develop a set of detailed forecasts describing expected activity in 2020, in the absence of the pandemic," adds Dr Collyer.

The team will then be able to compare what is observed in the health service throughout 2020 to these forecasted activity levels.

"We've also brought in forecasting expert Professor George Athanasopoulos from Monash's Faculty of Business and Economics, to help us with what is an extensive breaking down of this data."

"Many early analyses we've been seeing in the media have compared 2020 hospital activity to 2019 data, which is not statistically ideal as this doesn't account for underlying trends."

Research governance

Research Operations Committee

Professor Velandai Srikanth (Chair)

Associate Professor Nadine Andrew

Mr Andrew Bickell

Professor John Botha

Dr Gary Braun

Mr Nigel Broughton

Ms Lee-Anne Clavarino

Dr Jolyon Ford

Professor Terry Haines

Professor David Hunter-Smith

Mr Nicholas Jones

Associate Professor David Langton

Professor Jamie Layland

Dr Shyaman Menon

Dr Chris Moran

Professor Richard Newton

Associate Professor Virginia Plummer

Ms Fiona Reed

Dr William Slater

Professor Ravi Tiruvoipati

Associate Professor Vikas Wadhwa

Dr Ashley Webb

Associate Professor Cylie Williams

Ms Libby Wilson

Scientific Advisory Subcommittee

Associate Professor Nadine Andrew

Mr Nigel Broughton

Associate Professor Ernie Butler

Associate Professor Miodrag Dodic

Dr Sam Leong

Dr Chris Moran

Associate Professor Virginia Plummer

Associate Professor Cylie Williams

Human Research Ethics Committee

Associate Professor Virginia Plummer
(Chair)

Associate Professor Vikas Wadhwa
(Executive Sponsor)

Mr Iouri Banakh

Dr Melanie Benson

Mr Nigel Broughton

Mr Sean Chinnathumby

Dr Rosamond Dwyer

Ms Joanna Green

Dr Dilinie Herbert

Ms Alice Irving

Mr Richard Ivice

Dr Tom Jeavons

Ms Mandy Lake

Ms Alice Lam

Dr Ian Munro

Dr Meghan O'Brien

Mr Seng-Yew Ong

Professor Warren Rozen

Professor Ravi Tiruvoipati

Dr Vicky Tobin

Ms Ann Urch

Mr Michael Wang

Ms Alexis Ward

Dr Ashley Webb

Ms Emma White

Associate Professor Zee Wan Wong

Projects approved by the Executive Sponsor

- A 14 day quarantine period post exposure to COVID-19 is not enough
- A clinical audit into the utility and outcomes of percutaneous cholecystostomy in a tertiary hospital
- A retrospective audit of infusion related reactions from liposomal amphotericin infusion (Ambisome®)
- A retrospective audit to review the early mobilisation of patients undergoing elective colorectal surgery at Frankston Hospital on the Enhanced Recovery After Surgery (ERAS) care pathway
- A review of a new endoscopic ultrasound service in a public hospital
- Analysis of appropriate pain management with analgesics for newly admitted opioid naive patients in a metropolitan hospital
- Appendiceal neuroendocrine tumours: Do the lymph nodes in the mesoappendix matter?
- Appropriate use of inpatient echocardiography in general medicine at Peninsula Health
- Are current physiotherapy regimes for proximal humerus fractures up-to-date?
- Assessing prevalence and predictors of hospital acquired venous thromboembolism
- Assessing the Loop and Drain Technique for subcutaneous abscess drainage
- Audit of hand trauma patients' data at Frankston Hospital
- Audit of outcomes in a severe asthma clinic comparing benralizumab treatment with mepolizumab treatment
- Can the requirement for basal or prandial insulin in gestational diabetes mellitus be predicted by the diagnostic glucose result of the initial oral glucose tolerance test?
- Comparison of outcomes in severe asthma at Frankston Hospital in patients treated with mepolizumab versus bronchial thermoplasty
- Determining the impact of the COVID-19 pandemic on hospitalisations for urgent conditions
- Do breech babies require more resuscitation than cephalic babies when born by elective caesarean section?
- Does gestational diabetes affect mode of delivery and fetal growth as assessed by routine fetal growth scans?
- Drug interaction with direct oral anticoagulants in patients with cancer
- Equipment management at The Mornington Centre
- Evaluation of a new streamlined community care referral and discharge process at The Mornington Centre
- Evaluation of antibiotic allergy history in an Australian metropolitan hospital
- Experience with Enhanced Recovery After Surgery programme in elective colorectal surgery at Frankston Hospital
- Fasting blood glucose test as an alternative to oral glucose tolerance test in the diagnosis of gestational diabetes during the COVID-19 pandemic
- Harm and screening assessment - a time in motion audit

- How effective is the equipment prescribed by Peninsula Health occupational therapists and physiotherapists in terms of usefulness and patient satisfaction?
- How to deliver hospital-based care in the home environment.
- Identifying potential weight bias in the health care setting
- Impact of COVID-19 pandemic on plastic surgery trauma presentations at Frankston Hospital: An audit on injury mechanisms and timing of presentations
- Impact of expansion of Computed Tomography Coronary Angiography on existing modalities: A single centre experience
- Improving osteoporosis assessment and treatment among high risk minimal trauma fracture patients at a tertiary centre
- Improving vancomycin therapeutic drug monitoring using an electronic template
- In-hours vs out-of-hours colonic resections without an acute surgical unit
- In-hours vs after-hours laparoscopic cholecystectomies in patients with acute cholecystitis in a health service without an acute surgical unit
- Is length of stay different following index versus interval cholecystectomy?
- Mapping and analysing variability in risk screening and assessment tool scores across the care continuum at a single public health service
- Myocardial infarction in the absence of obstructive coronary artery disease (MINOCA): A prevalence study and retrospective audit on diagnostic evaluation and follow-up plans
- Nutrition audit throughout inpatient stay for patients in the Intensive Care Unit
- Outcomes of direct oral anticoagulants in obese patients with atrial fibrillation: A retrospective single-centre experience
- Outcomes of elective cancer surgery during the COVID-19 pandemic crisis: An international, multicentre, observational cohort study
- Outcomes of surgery in COVID-19 infection: International cohort study
- Partnering with consumers to inform service redesign and enhance the experience for patients with upper gastrointestinal cancer at Peninsula Health
- Pelvic artery embolisation study
- Perianal fistula management at Peninsula Health
- Pilot for teleneuropsychology at Peninsula Health
- Prediction of ileus post right hemicolectomy using perioperative neutrophil to lymphocyte ratio
- Preoperative CTA for pedicled TRAM Flaps
- Prolonged hypoglycemia in overdose of long-acting insulin: A case series
- Prostate ultrasound comparison transabdominal and transrectal approach
- Reasons for health care workers' refusal of seasonal influenza vaccination during the COVID-19 pandemic
- Refinement of drug-drug interaction alerts within an electronic health record system to reduce alert fatigue



- Retrospective study of safety and efficacy of standard-dose enoxaparin in preventing pregnancy associated VTE in obese and non-obese populations
- Study of radiation exposure in patients undergoing computed tomography coronary angiography
- The Heresy Stitch: Does external fixation through a trans-testicular stitch decrease the rates of testicular atrophy and ascent post orchidopexy for undescended testes?
- The impact of COVID-19 restrictions on hospital presentations and admissions in a metropolitan Australian centre: a comprehensive retrospective study
- The importance of lower limb ultrasound imaging in the diagnosis and management of pulmonary embolism
- The neglected hemi-hamate donor site
- Training and development of peripherally inserted central catheter (PICC) by a radiographer - a pilot study
- Treatment practices of cellulitis in a tertiary hospital
- Understanding factors that may contribute to the development of suspected deep tissue injuries (SDTI) on feet during hospital admission at Peninsula Health
- Understanding the impact of Rainbow Tick
- Use of ECG to predict likelihood of revascularisation in patients with cardiac arrest but without ST elevation
- Using natural language processing to identify patients with delirium in the Intensive Care Unit
- Using what we know, better: Targeted hand therapy treatment following surgical intervention for Dupuytren's disease
- Victorian Emergency Minimum Dataset: Injury surveillance data quality evaluation
- Wellness Clinic Quality Activity

Projects approved by the Human Research Ethics Committee

- A retrospective review of surgical patient outcomes at Frankston Hospital
- A walking while talking test to detect dementia
- Allied health assistant care for patients with acute hip fracture: A feasibility randomised controlled trial
- Building knowledge in opioid prescribing in post-operative treatment
- Case-mix and outcomes of patients treated by specialist Emergency Nurse Practitioners
- Development and implementation of patient centred goal setting into existing care processes at Peninsula Health
- Exploring patient strategies to enhance shared decision-making (SDN) in the hospital setting
- Efficacy of probiotic gargles in reducing post-operative complications in adult post-tonsillectomy patients: A pilot double-blinded, randomised controlled trial (feasibility trial)
- Evaluation of introductory family meetings to improve the care of people with challenging behaviour
- Factors affecting patients' and caregivers' perception on readiness for discharge from inpatient subacute setting to home: a mixed methods study
- Feasibility study of using optical coherence tomography during bronchoscopy
- Haemodialysis treatment time effect on quality of life
- Impact of frailty on resuscitation plan documentation
- Leveraging electronic medical records and routine administrative data: towards a population approach for monitoring dementia frequency, risk factors and management
- Mental health nurses' perception of missed and rationed nursing care in acute inpatient units
- Outcomes of talus fractures

- Preparedness for walking in the community and its association with participation in community activities following inpatient rehabilitation
- Reducing exposure to second-hand smoke at a public hospital entrance through the broadcast of recorded health messages from Australian primary school age children: A feasibility study
- Social distancing implementation and perceptions amidst the 2019 Novel Coronavirus Pandemic
- The additional value of ICU transfer amongst frail patients after a rapid response call
- The E-CASSH study: Effectiveness of Cash incentives on the Abstinence of elective Surgery Smokers at Hospitalisation: a randomised feasibility trial
- The effect of fluid challenge and vasoactive agents on renal resistive index in patients with sepsis and septic shock in ICU
- The experience of health professionals in delivering a community care program
- The Older Wiser Lifestyles Program client satisfaction evaluation study
- The relationship between older adults' performance on the Montreal Cognitive Assessment (MoCA) and the Texas Functional Living Scale (TFLS) in a sub-acute setting
- Understanding the enablers and barriers to Minimal Intervention Dentistry



Multi-site projects authorised at Peninsula Health

- A multi-agency evaluation of the routine practice of acceptance and commitment therapy groups for recovery from psychosis
- A multi-center, randomized, double-blind, parallel-group, placebo-controlled study of mepolizumab 100 mg SC as add-on treatment in participants with COPD experiencing frequent exacerbations and characterized by eosinophil levels
- A multi-centre national study of COVID-19 infection in patients with cancer
- A phase 3 multicenter, double-blind, randomized, placebo-controlled, parallel-group study, to investigate the efficacy and safety of CSL112 in subjects with acute coronary syndrome
- A phase 3, multicenter, randomized, open-label, active-controlled study of trastuzumab deruxtecan (DS-8201a), an anti-HER2-antibody drug conjugate, versus treatment of investigator's choice for HER2-positive, unresectable and/or metastatic breast cancer subjects previously treated with T-DM1
- A phase 3, double-blind, placebo-controlled study of tiragolumab, an anti-TIGIT antibody, in combination with atezolizumab compared with placebo in combination with atezolizumab in patients with previously untreated locally advanced unresectable or metastatic PD-L1 selected non-small cell lung cancer
- A phase III, multicenter, randomized, open-label trial to evaluate efficacy and safety of ribociclib with endocrine therapy as an adjuvant treatment in patients with hormone receptor-positive, HER2-negative, early breast cancer
- A randomised phase II trial evaluating the efficacy of a nivolumab monotherapy lead in 'window' or commencement of nivolumab concurrently with paclitaxel and carboplatin as neoadjuvant therapy in early stage triple negative breast cancers
- A randomised, double-blind, placebo-controlled study to evaluate the efficacy and safety of BG00011 in patients with idiopathic pulmonary fibrosis

- A randomized, multicenter, parallel-group, phase 3 study to compare efficacy of arfolitixorin vs leucovorin in combination with 5 FU, oxaliplatin and bevacizumab in advanced colorectal cancer
- Australian Benralizumab Registry
- Australian Severe Asthma Registry
- Choosing between biological agents for severe allergic eosinophilic asthma
- Circulating tumour DNA analysis informing adjuvant chemotherapy in locally advanced rectal cancer: A multicentre randomised study
- Consumers' views on telehealth
- Evaluation of the Hospital Outreach Post-suicidal Engagement (HOPE) Initiative
- Exploring the roles and responsibilities of the Allied Health Assistant Workforce
- Impact of Allied Health Research and Translation Lead (AHR&TL) positions on professional social networks in Victorian allied health services
- Integrating care via a volunteer-based patient-centred program for hospitalised patients with dementia and/or delirium: The MyCare Ageing Project
- Mapping diabetic foot disease in SE Victoria
- Misappropriation of medications in Melbourne hospitals
- Non-admitted care costing study
- Pancreatic cancer: Understanding Routine Practice and Lifting End results (PURPLE) A prospective pancreatic cancer clinical registry
- Perception and action: How the cognitive constructs of health and illness shape the model of care for co-morbid chronic disease in the hospital setting
- Phase III double-blind randomized placebo controlled trial of atezolizumab in combination with paclitaxel and carboplatin in women with advanced/recurrent endometrial cancer
- Randomized, double-blind, placebo-controlled, dose-ranging, efficacy and safety study with inhaled RVT-1601 for the treatment of persistent cough in patients with idiopathic pulmonary fibrosis
- The development phase of the RESOLVE (Randomised Evaluation of Sodium dialysate Levels on Vascular Events) study
- Victorian Ambulance STEMI Quality Initiative (VASQI)
- Victorian ICUs' nutrition practices survey
- Volatile Anaesthesia and Perioperative Outcomes Related to Cancer: The VAPOR-C Study



Celebrating Research 2019 prize winners

Presentation

PATIENT SAFETY AND PERSON CENTRED CARE

■ **Dr Victor Ge**

SGLT-2 inhibitors in surgical patients: a single centre retrospective cohort study
1st Prize Early Researcher Category

■ **Ms Rebecca Barnden**

Use of a standardised goal setting package improved the quality of documented discharge planning goals following stroke
2nd Prize Early Researcher Category

AGED CARE AND CHRONIC DISEASE MANAGEMENT

■ **Dr Stephanie Than**

Associations between age, sex and menopause with brain structure
Experienced Researcher Category

■ **Dr Imeldah Motoroko**

Balance in patients with or without Ledderhose disease
1st Prize Early Researcher Category

■ **Dr Suitri Pillai**

Comprehensive audit of baseline investigations and subsequent management of patients with breast cancer at Peninsula Health
2nd Prize Early Researcher Category

HEALTH SERVICES AND POPULATION HEALTH

■ Mr Michael Wang

Exercise rehabilitation in the intensive care unit - a systematic review and meta-analysis
Experienced Researcher Category

■ Ms Colleen White

Scope and feasibility of a publicly funded homebirth program for the Mornington Peninsula
Experienced Researcher Category - Special Commendation

■ Mrs Jenna Riley & Ms Karman Liu

Evaluation of the Advanced Scope of Practice Role: PEG Credentialing for Dietitians
1st Prize Early Researcher Category

■ Ms Beth Storr

Delegation of therapy to allied health assistants may improve patient and organisational outcomes in acute hospital settings: A systematic review and meta-analysis
2nd Prize Early Researcher Category

INNOVATIVE TECHNOLOGY AND THERAPIES

■ A/Prof David Langton

Bronchial thermoplasty increases airway volume measured by functional respiratory imaging
Experienced Researcher Category

■ Dr Ryo Ueno

Additional value of laboratory results for a machine learning algorithm to predict in-hospital cardiac arrest: A single center retrospective cohort study
1st Prize Early Researcher Category

■ Dr Harmeet Bhullar

The investigation of fat necrosis in the deep inferior epigastric perforator (DIEP) flap in breast reconstruction
2nd Prize Early Researcher Category

MEDICAL STUDENT PRIZE

■ Ms Jessie Zhou

Development of socio-clinical medical resources for pre-clinical learning - MEDHAX: By students for students
1st Prize

■ Ms Simaran Vinod Benyani

Differences in contrast induced ECG changes during coronary angiography between males and females
2nd Prize

AGED CARE AND CHRONIC DISEASE MANAGEMENT

- **A/Prof Zee Wan Wong, Ms Sandra Maciver, Dr Vinod Ganju, Ms Linda Rabbidge, Prof Velandai Srikanth**

Addressing survivorship needs of an elderly population with cancer:

A pilot study of care coordination

1st Prize

- **Dr Babak Tamjid, Dr Sruti Pillai, Dr Vi Luong, Dr Richard Pham**

Comprehensive audit of baseline investigations and subsequent management of patients with breast cancer at Peninsula Health

2nd Prize

HEALTH SERVICES AND POPULATION HEALTH

- **Ms Tram Huynh, Mrs Gillian Oates, Mrs Julie Metcalf, Dr Kasha Singh, Dr Peter Kelley, Ms Vivian Khalil**

An evaluation of the antimicrobial management of community-acquired pneumonia patients admitted under the respiratory unit at Peninsula Health

1st Prize

- **Ms Elaine Van, Mrs Gillian Oates, Mrs Julie Metcalf, Dr Kasha Singh, Dr Peter Kelley, Ms Vivian Khalil**

An audit of the appropriateness of community acquired pneumonia management in adult non-respiratory patients of an Australian metropolitan hospital

2nd Prize

INNOVATIVE TECHNOLOGY AND THERAPIES

- **Ms Simran Vinod Benyai, Ms Mania Ahmed, Dr Hashrul Rashid, Dr Justin Cole, Dr Manuja Permaratne, Dr Na Htun, Prof Jamie Layland**

Differences in contrast induced ECG changes during coronary angiography between males and females

1st Prize

- **Dr Robert Phan, Prof Warren Rozen, Prof David Hunter-Smith**

The use of collagenase in Dupuytren's disease and skin tears

2nd Prize

PATIENT SAFETY AND PERSON CENTRED CARE

- **Ms Terri Richardson, Ms Vivian Khalil**

Evaluation of overriding allergy alerts in the electronic prescribing system at Peninsula Health

1st Prize

- **Ms Vivian Khalil, Mr Daniel Almer, Ms Birgit Reisenhofer**

Evaluation of a patient centred care approach on patient's satisfaction

2nd Prize

Grants

- Nadine Andrew (AI). Building capacity to optimize pressure injury prevention and surveillance across Monash Partners healthcare services. Monash Partners Advanced Health Research Translation Centre, Medical Research Future Fund. **\$222,430**
- Nadine Andrew (CIB). Generating evidence for action: The incidence, prevalence and trajectories of benzodiazepine use in Australia 2013-2019. Monash Addiction Research Centre, Collaborative Seed Funding Project Grant. **\$50,000**
- Nadine Andrew (CIC). Understanding long term community support provided by primary care. Stroke Foundation Seed Grant. **\$50,000**
- Michele Callisaya (CIA). A self-management tool for reducing dementia risk in middle age patients with a history of Transient Ischaemic Attacks. Monash University Joint Medicine-Pharmacy IDR Seed Funding Grant. **\$50,000**
- Michele Callisaya (CIC). Sustaining exercise to enhance cognition: A feasibility study. Dementia Australia Research Foundation. **\$75,000**
- Velandai Srikanth, Nadine Andrew, & Richard Beare. National Centre for Healthy Ageing (NCHA) – Data Platform Component. Commonwealth of Australia. **\$2,070,000**
- Joe Verghese, Velandai Srikanth & Michele Callisaya. The biological underpinnings of Motoric Cognitive Risk syndrome: a multi-centre study. NIH-USA RO1 Grant. **USD \$5,000,000** (2020-2025)
- David Langton (CIB). Unravelling a clinical paradox: why does bronchial thermoplasty work in asthma and how can we improve patient outcomes? NHMRC Ideas Grant. **\$1,060,200**
- Babak Tamjid & Zee Wan Wong. Peninsula Health Lung Cancer Redesign Project. AstraZeneca PH Lung Cancer Redesign Project Grant. **\$140,000**
- Lisa Taylor & Zee Wan Wong. Symptom Urgent Review Clinic (SURC) Project. Southern Metropolitan Cancer Services (SMICS) SURC Grant. **\$110,000**
- Zee Wan Wong. Mapping the care pathways for patients with non small cell lung cancer treated at Peninsula Health. AstraZeneca Lung Research Project. **\$15,000**



Publications

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