



Auckland District Health Board

Research

Annual Report 2017



Welcome *Haere Mai* | Respect *Manaaki* | Together *Tūhono* | Aim High *Angamua*



GROWING RESEARCH

Research at ADHB continues to grow and this year we were delighted to see Professor Stuart Dalziel become the first ADHB recipient of an HRC programme grant. We are proud of the investigator lead research that the DHB supports and congratulate all those who received grants for such over the last year.

ADHB has a sound framework for the governance of research involving human participants. The Research Review Committee assesses all new projects, considering scientific merit, ethical issues, feasibility and budget. The Research Governance Committee provides assurance to our board about the safety and appropriateness of research undertaken at ADHB. We have now complemented that with a joint ethics committee with the University of Auckland, the Auckland Health Research Ethics Committee. That committee provides ethical review of projects that fall outside the scope of the Health and Disability Ethics Committees and is comprised of members from both university and ADHB. Finally, the research office has updated relevant policies and procedures and that is all available to current and potential researchers on our refreshed website.

This year saw the third round of Auckland Academic Health Alliance research grants, just one aspect of our strong relationship with the Faculty of Medical and Health Sciences, University of Auckland. We encourage ADHB researchers to find a university research partner with the aim of growing research activity and enabling great ideas on this side of the road to be translated into reality, via research methodologies demonstrating efficacy.

All of this would not happen without the hard work of our research office team led by Dr Mary-Anne Woodnorth and Dr Colin McArthur, plus the individuals who commit time and energy to the committees listed above. Thank you.



Dr Margaret Wilsher

Chief Medical Officer and Head of Research, Auckland DHB

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A WORD FROM THE AUCKLAND DHB RESEARCH OFFICE

This document is a snapshot of the research activities that commenced at Auckland District Health Board in the year 2017. Every Auckland DHB department and service area participated in research activity. Hundreds of our people trained in ICH-GCP, the international quality standard for the conduct of clinical research. Many more made personal commitments to further hone their research skills and enrolled in higher research degrees. Considering the size and energy of the Auckland DHB workforce participating in research it isn't surprising that research activity spans the organisation and extends beyond it, as evidenced by the breadth and quality of our external collaborations both nationally and internationally. In fact, Auckland DHB has been experiencing something of a research boom, with each successive year since counting began having the highest number of new projects commencing. The new record set in the 2017-2018 year was 354, which represents a 100% increase in volume since Auckland DHB starting producing research reports in 2006. The number of commercial clinical trials approved has doubled since 2010. Our portion of annual Health Research Council funding has continued to trend upwards but with a steeper incline than usual in 2017 because of Dr Stuart Dalziel's \$5 million programme grant investigating prevention of asthma in children.

These metrics are reassuring that research support services and the research governance structure at Auckland DHB are performing well. Describing the framework of services and governance, and their more notable outputs such as the acquisition of major grants by our people, have been a major focus of the annual research report in previous years. We've got more good news funding stories to share in this 2017 edition. However as our research processes have matured and our knowledge about how our people are addressing key priorities through research deepens, we now want to use this report to through a spotlight upon what research achieves. The three stories featured this year are about research making an impact - PREP2 on changing clinical practice, TRANSFUSE on confirming optimal treatment, and mother and baby studies on the dollar value of clinical trials.

What's new?

- ▶ Auckland DHB now has a single combined clinical research policy – long overdue! The combined policy replaces the previous four separate policies, thus eliminating overlap and obsolete references. We hope having up to date information about best practice expectations for both researchers and the organisation in a streamlined document will make navigating the research maze less daunting.
- ▶ Auckland DHB now has a functioning research ethics committee through our partnership with the University of Auckland's Faculty of Medical and Health Sciences research ethics. The Auckland Health Research Ethics Committee (AHREC) was accredited by the Health Research Council and began reviewing applications in 2017.

What's on the radar?

- ▶ The National Ethics Advisory Committee is updating ethical guidelines for clinical research. A working group has polished a draft for consultation, parts of which are likely to be controversial. Whatever the outcome of the consultation and final form of the guidelines, these will undoubtedly create important change in the New Zealand clinical research landscape.

EXCITING NEW PARTNERSHIP!



"Everyone here does a great job. I don't know where I'd be without them."

Your donations fund projects, research, education and facilities that will provide greater positive health outcomes for everyone.

We focus on innovation, technology, discovery and advancements beyond what is presently funded.

"The doctors gave me my mum back."

"I can't thank everyone here enough, they are amazing."

Together, we will transform healthcare within our DHB, ensuring the future of healthcare in Auckland is world-class.

Auckland Health Foundation
Advancing healthcare, saving lives

Get involved at
aucklandhealthfoundation.org.nz

Auckland Health Foundation

Through donations from grateful patients and the public, the Auckland Health Foundation financially supports projects, research and education for adult health services, which have the capacity to transform healthcare and wellness and the way it is delivered within Auckland DHB.

The Foundation goes beyond what is presently funded in the healthcare system to focus on promising ideas, innovations and technologies that have the potential to benefit our patients and community, but could otherwise not be developed without external investment.

Our goal is to ensure the future of healthcare in Auckland is world-class, providing greater positive health outcomes not only for Aucklanders, but for the whole of New Zealand. Success is not just the equipment, research and facilities our supporters have funded, but the lives they have enriched and saved in doing so.

Thanks to our supporters, we will fund projects that meet our four priorities:

- ▶ Promote population health and wellness
- ▶ Support the training and education of both medical and non-medical staff who work for Auckland DHB
- ▶ Transform patient care by supporting new processes, innovation and technology for delivery of healthcare
- ▶ Advance Discovery – patient-focused research involving Auckland DHB staff and leveraging through other collaboration

We will achieve these priorities through three categories for donors to contribute:

- ▶ Capital appeals for specific projects, e.g. a fully-resourced simulation centre
- ▶ Department directed or targeted initiatives, e.g. equipment and facilities (beyond what is currently funded)
- ▶ Research and Discovery Fund, e.g. towards cancer or transplant research]

Thanks for taking the time to find out about our research year 2017.



Mary-Anne Woodnorth, Auckland DHB Research Office

MAKING AN IMPACT

PREP2 predicts upper limb function after stroke

A year ago the physiotherapists at Auckland District Health Board had no objective, prognostic tools to tell in advance how much a stroke patient's hand and arm function could be improved with therapy. Fast-forward to 2018 and this situation has changed dramatically for the better as an outcome of a long-standing research collaboration between the University of Auckland's Associate Professor Cathy Stinear and Auckland DHBs Neurology and Allied Health teams. Cathy's TRIO (Targeted Rehabilitation, Improved Outcomes: funded by HRC grant 11/270) project investigated the use of a three-step clinical algorithm called PREP2 (Predicting REcovery Potential). The results showed that when clinical teams looking after the patients were provided with the PREP2 prediction of the patient's outcome, their patients were, on average, able to be discharged from hospital one week earlier compared to patients treated in the absence of PREP2 predictions. Importantly, this was not at the expense of patient outcomes, indicating that PREP2 information can safely improve rehabilitation efficiency.



The key advantage of targeting rehabilitation is that the clinical team can invest its energy into setting goals and providing therapies that are appropriate for a patient's expected recovery. For example, when a poor upper limb outcome is predicted the team can focus on helping the patient learn to carry out daily activities using mainly their other hand and arm, and on therapies to address other impaired functions such as walking, swallowing, and communicating. More importantly, the algorithm allows physiotherapists to identify patients with initially severe weakness who have potential for a good recovery, which might otherwise go unrealised if therapy was not targeted appropriately.

One crucial enabler for translating this new knowledge into practice has been the co-location of the research team and the clinical setting. Cathy's team have been working alongside Auckland DHB Neurology and Reablement for nearly a decade. Thus there was no need for any preliminary work to raise awareness of the PREP2 algorithm, as the clinical teams had been able to directly observe it utilised within their midst during the research phase.

A unique feature of the collaboration is that Cathy uses her research funding for secondments for allied health clinicians to join the research team for periods of time. This custom has yielded both a benefit to the research, as qualified hospital professionals are the points of contact for the study participants, but also for the translation into practice, as members of the physiotherapy team became expert at undertaking the PREP2 assessments.

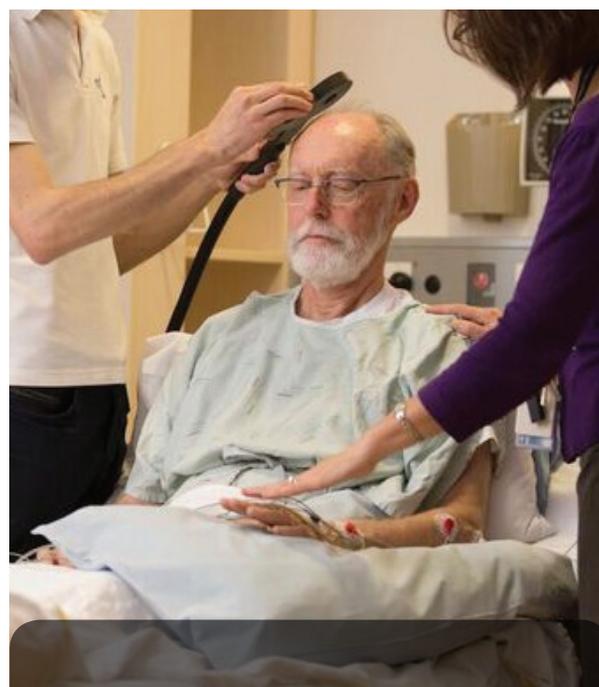
A second key enabler was the pragmatic approach Cathy took in designing the clinical trial of PREP2. In the study the intervention was not a therapy delivered by the research team. Instead, the intervention was information about the patient's capacity for recovery being made available to the hospital clinical teams. The clinical teams used this information to guide their own decisions about the best therapeutic focus for their patients. Therefore the research had already established that tight, protocol-driven control of rehabilitation programmes was not necessary. The professionals making the rehabilitation plans made good decisions when armed with good information.



Electrodes are placed on the patient's arm before transcranial magnetic stimulation (TMS) test

Once the research was completed Cathy and Auckland DHB neurologist Prof Alan Barber obtained clearance from the Northern Regional Practice Committee for PREP2 to become routine clinical care. Cathy's role changed to become that of support person for the implementation process. The process was completed and PREP2 rolled out as a standard clinical practice at Auckland DHB in January 2018.

Although the success of the Auckland DHB PREP2 implementation project is due to the efforts of a large number of DHB staff it is important to recognise that the implementation process was initiated by individual physiotherapists and it is chiefly through their commitment and energy that the process reached its conclusion. The implementation team of Emma Monigatti, Benjamin Scrivener, Olivia Norrie, Claire Valentine, Gemma Nolan, Hayley Collard, and Desiree McCracken achieved some notable milestones. They obtained authorisation from the Auckland DHB Allied Health Professional Leader and Chief Health Professions Officer as well as approval from the national Physiotherapy Board that conducting PREP2 assessment is within physiotherapists' scope of practice. With support from Cathy and the research team, they developed numerous paper resources, including competency documents, a PREP2 assessment form, patient stickers (for the clinical record) and templates for patient handover. Cathy's team also provided these physiotherapists with training in the safe use of transcranial magnetic stimulation (TMS), to test movement pathways in the brain. This test is required for around one-third of patients. Cathy's team are now in the process of training senior physiotherapists to become TMS trainers, so that they can continue to upskill their colleagues and ensure the sustainability of PREP2 in clinical practice.



The TMS coil is passed over the patients head to detect how well the brain and arm can communicate



Olivia says having PREP2 in the toolkit has given physiotherapists much more confidence in the rehabilitation strategies they recommend, and given them greater ability to have honest conversations about recovery of hand and arm function with patients. The patients' rehabilitation can now be specifically targeted in a way that ensures maximal recovery for each individual as their advice is now backed up by evidence. The team is spreading the news about PREP2 via presentations at national conferences and DHB's across New Zealand. They are excited about helping with the roll out of PREP2 at Waitemata and Counties Manukau DHBs, where there are also committed local champions. Plans are in development for the implementation and support of PREP2 in other DHBs, such as Hutt Valley DHB. The ultimate aim of the PREP2 workforce, both researchers and clinicians, is to see the assessment brought into practice nationwide.

HRC Chief Executive Professor Kath McPherson says

"This is a great example of translational research in action. Cathy and her team have trained therapists at Auckland Hospital to use this tool and they are currently busy helping other hospitals in New Zealand and the US and UK to use it too. They've also committed to making all of the resources developed freely available to download online through their wikispace site to give back to the community and maximise New Zealanders' return on investment."

The clinical implementation of PREP2 has required enormous enthusiasm, constructive leadership, and most of all partnership between researchers and clinicians having the shared vision that individualised rehabilitation based on biomarkers of the brain's potential for recovery becomes standard practice in New Zealand and internationally. This will take much of the guesswork out of rehabilitation planning for the 8,000 New Zealanders who experience stroke each year and ensure that their therapy needs are more effectively and efficiently met. In turn, this will reduce the burden of stroke on patients, families, communities and health services.

PREP2 Research team

A/P Cathy Stinear, Prof Winston Byblow, Dr Marie-Claire Smith, Prof Alan Barber, Dr Suzanne Ackerley. These are the University of Auckland staff who have developed, tested, validated and refined the PREP2 algorithm, and developed resources for implementation.

PREP2 Auckland DHB Implementation team

Emma Monigatti, Benjamin Scrivener, Olivia Norrie, Claire Valentine, Gemma Nolan, Hayley Collard, Desiree McCracken. These are the ADHB physiotherapists who have led the implementation of PREP2 into clinical practice.

MAKING AN IMPACT



No benefit of fresher versus older red blood cell transfusion for critically ill patients –

The results of the TRANSFUSE Study

A ground breaking has found the transfusion of older stored red blood cells is safe and, surprisingly, associated with fewer side effects than fresher blood cells.

In the TRANSFUSE trial, researchers from the Australian and New Zealand Intensive Care Society Clinical Trials Group (ANZICS-CTG) led teams in five countries to investigate the effect of the age of transfused red blood cells on critically ill patient outcomes. At Auckland City Hospital the study was led by intensive care specialist Dr Colin McArthur.

The findings, published in the New England Journal of Medicine on 27 September 2017, showed that fresher blood was no better than older blood. The investigators also found fewer transfusion reactions, including fever, with the older blood; and in the most severely ill patients, the transfusion of older blood was associated with fewer deaths.

Lead researcher, Monash University's Professor Jamie Cooper, said:

"Older blood appears to be like a good red wine – better with some age."

"The findings of our trial confirm that the current duration of storage of red blood cells for transfusion is both safe and optimal."

”

Red blood cells are stored for up to 42 days before transfusion. Routine practice in most hospitals is to allocate the oldest available compatible blood. Concerns regarding changes in the red blood cells during storage have led some countries to reduce this to 35 days, and some doctors to request fresher blood for specific patients under the belief that “fresh must be best”.

“Such practices can significantly reduce the availability of blood for transfusion” said Professor Cooper. “Our study shows these practices are not required and are potentially counterproductive”.

The TRANSFUSE trial was of 5000 Intensive Care patients in Australia, New Zealand, Finland, Ireland and Saudi Arabia. The study was funded in New Zealand by the Health Research Council of NZ via a 2012 project grant to Dr Colin McArthur.

About TRANSFUSE

TRANSFUSE-RCT is a multi-centre, randomised, controlled trial, testing the effect of the freshest available red blood cell (RBC) unit compared to standard practice, on mortality in critically ill patients who require RBC transfusion.

Rationale:

RBC transfusion is a very common and potentially life-saving treatment in intensive care units (ICUs). However, RBC transfusion has also been associated with an increased risk of morbidity and/or mortality in critically ill patients. Although this association may reflect a variety of factors, attention has increasingly focused on the possible adverse impact of transfusing RBCs stored for a prolonged time, and have developed a so called "storage lesion". The term "storage lesion" refers to the fact that during the 42-days storage, in a way that increases over time, red cells develop important biochemical and structural derangements. These age-related changes in transfused RBCs may

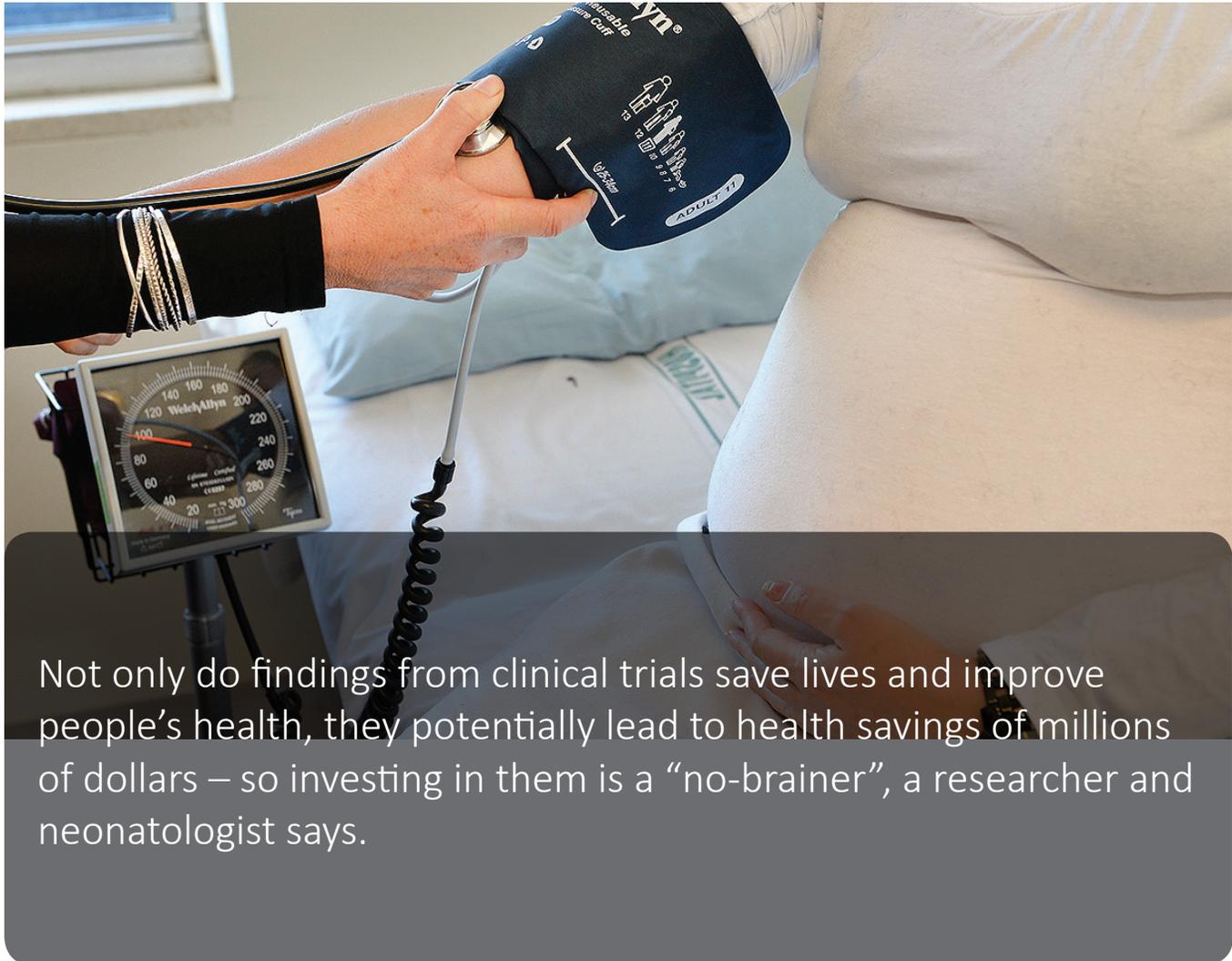
have important clinical consequences. However, clinical studies on this fascinating topic remain observational, often retrospective and have very conflicting results.

Goal:

The hypothesis was that in critically ill patients who require a RBC transfusion, compared to standard practice, administration of the freshest available compatible RBC decreased 90-day patient mortality. Patients were randomised to either the "Freshest available blood group" or the "Standard care group".
Freshest available blood group: These patients received the freshest available group-specific compatible RBC unit in the transfusion service. Standard care group: These patients received standard practice, which was the oldest available group-specific compatible RBC unit in the transfusion service.

MAKING AN IMPACT

Mother and baby clinical trials could save the health system \$290 million over five years



Not only do findings from clinical trials save lives and improve people's health, they potentially lead to health savings of millions of dollars – so investing in them is a “no-brainer”, a researcher and neonatologist says.

A team of researchers in New Zealand and Australia have crunched the numbers from 23 clinical trials in the area of mother and baby health which began recruitment in 2008 and completed by 2015. According to their calculations, the studies generated potential savings of up to NZ\$290.4 million over five years – almost 13 times the funding investment.

The 23 trials – which include the high-profile “Sugar Babies” trial led by Liggins Institute Distinguished Professor Jane Harding that transformed the treatment of low blood sugar in newborn babies - had together received NZ\$22.4 million in funding.

Treatments tested in six of the trials with results available were proven to be superior to existing practice. The authors calculated that if only 10 percent of eligible patients received those six superior interventions, it would save the health system an estimated NZ\$25.8 million (AU\$23.3 million) over five years, paying off the investment. But, if all eligible patients received them, it would save NZ\$290.4 million (AU\$262.8 million) over the same period – a thirteen-fold return.

“Our analysis provides further evidence that investing in clinical trials should be a no-brainer - it actually saves the health service money, and so the more high quality trials that are done, the more there will be savings in health care expenditure that can be invested elsewhere,”

says Professor Frank Bloomfield, one of the report authors and Director of the University of Auckland-based Liggins Institute.



Professor Bloomfield, who is also a neonatologist at National Women’s Health, Auckland City Hospital, says New Zealand compares “very poorly” to other OECD countries in terms of the percentage of GDP invested in research, which includes health research

“The recent increase in Health Research Council funding, for example, although extremely welcome and critically important, only puts us back to where we were 10 years ago in terms of actual spending power when it comes to clinical trials.”

The gap between the costs of clinical trials and investment from funding agencies has also grown as a result of funding contract restrictions- most public good funding contracts in New Zealand have budget caps that are too low for high quality clinical trials. Recruitment timelines in clinical trials can also be unpredictable, and the growing pressures to stick to schedules despite this unpredictability is another challenge.

Fellow author Dr Katie Groom says: “Ongoing research is essential for healthcare professionals to be confident that they are doing the best they can for patients. It is crucial to use treatments that have been shown to be effective- and, equally, not to use treatments that do not have proven benefit or, worse, have been proven to be ineffective, even though this still occurs.”

Dr Groom is a senior lecturer in obstetrics and gynaecology at the University of Auckland’s Faculty of Medical and Health Sciences and maternal fetal medicine specialist at National Women’s Health. She says the dramatic difference in savings between 10 percent and 100 percent uptake highlights the importance of communicating new research findings to patients and getting clinicians to change their practice. “This ‘translation’ work is a major focus for us, too.”

“Hopefully analyses of cost-effectiveness like this one will help demonstrate to funders that their investment in clinical research is well spent.” Professor Frank Bloomfield

(Article courtesy of the Liggins Institute, University of Auckland)

Read the study: “Randomised clinical trials in perinatal health care: a cost-effective investment” in the Medical Journal of Australia

<https://www.mja.com.au/journal/2017/207/7/randomised-clinical-trials-perinatal-health-care-cost-effective-investment>

FUNDING FOR RESEARCH

In 2017 Auckland DHB researchers and their colleagues have enjoyed considerable success in obtaining funding in the millions for their research from a variety of charitable and public-good sources.

A+ Trust Research Grants



The hallmark of a great hospital is having a research programme of excellence. The Auckland DHB Charitable Trust (the A+ Trust) is a major supporter of research and the culture of research and innovation. This culture is helping reshape healthcare for our patients to ensure that they receive the best care possible. A+ Trust Research Grants have been awarded annually via a contestable funding round since 2007. The funding has supported Auckland DHB researchers from all disciplines to undertake research across the health spectrum, from patients to population, disease to prevention, and service delivery. Applications are externally peer reviewed and assessed by the Research Review Committee for scientific merit, feasibility, rationale and methodology, deliverables, and opportunities to develop the capacity of new researchers in the organisation. Here are the successful applications for 2017.

A+ Trust Project and Small Project Grants

Kim Brackley (Pharmacy)- Measuring patients' medicine information needs – development of a clinical assessment tool (\$43,150)

Alison Burge (Starship Community Services)- Early Childhood Development in Tamaki: The prevalence of health, developmental, behavioural, and social needs among 3-4-year-old children in the Tamaki Community (\$49,920)

Carolyn Deng (Anaesthesia)- A pilot trial of the Management of Systolic blood pressure during Thrombectomy by Endovascular Route for acute ischaemic STROKE (MASTERSTROKE Trial) (\$14,340)

Helen Lindsay (Anaesthesia)- Continuous subcostal transversus abdominis plane block in HepAtobiliary and Pancreatic surgery patients compared to Intrathecal mOrphiNe (CHAMPION) Randomised Pilot Trial (\$35,000)

Moira Nelson (Starship Community Services)- Communication difficulties in preschool in Tamaki (\$14,992)

Rachael Parke (Cardiothoracic and Vascular Intensive Care Unit) A Multi-centre, Open Label, Randomised Controlled Trial to Compare a Conservative Fluid Management Strategy to Usual Care in Participants after Cardiac Surgery- The FAB study (\$49,500)

Sarah Primhak (Paediatric Infectious Diseases) and Alison Leversha (Starship Community Services) Comparing the Old with the New: Randomised controlled trial of three different treatments for mild-to-moderate impetigo in children (\$49,410)

John Windsor (General Surgery)- Lymphogenic basis for insulin resistance in obesity (\$12,174)

Fei Xiong and Helen Pilmore (Renal Services)- The investigation, management and outcomes of patients with CKD after an acute coronary syndrome in New Zealand (\$13,900)

A+ Trust Summer Student Grants

Ivan Bergman (Anaesthesia)- A retrospective audit of PONV and pain in ADHB bariatric patients

Amy Chan (Pharmacy) and Dennisa Davidson (IMental Health)- Retrospective Study of Antipsychotic use and Hypersexuality

Gary Cheung (Mental Health Services for Older People) - Socio-demographic and disease-related predictors of caregiver burden in dementia.

Tim Cutfield and Steve Ritchie (Infectious Diseases) - Has pathway development reduced unnecessary Cellulitis admissions at ADHB?

Kevin Ellyett (Respiratory Physiology)- Incidence of flow limitation during exercise in healthy adolescent males and its association with perceived dyspnoea on exertion

Craig Jefferies (Paediatric Endocrinology)- The incidence and epidemiology of Acute Kidney Injury in children with Type 1 diabetes

Mike Nicholls (Adult Emergency Department)- Staff wellbeing in an urban Emergency Department in Aotearoa New Zealand

Tim Short (Anaesthesia)- Sarcopenia assessment in the older preoperative surgical co-morbid patient in the anaesthetic assessment clinic: A prospective observational pilot study

Helen Wihongi (He Kamaka Waioara)- Māori were the most physically perfect race living on the face of the earth- turning the curve on diabetes

Michelle Wise (National Women's Health)- Patient satisfaction with two methods of induction of labour

Auckland Academic Health Alliance Collaboration Fund

The Auckland Academic Health Alliance formalises a research, teaching and clinical delivery relationship spanning almost five decades between the Auckland District Health Board and the University of Auckland.

Shuan Dai (Ophthalmology) and Steven Dakin (University of Auckland)- to investigate developing a rapid, objective and automated means of measuring misalignment of the eyes. Misalignment is one of the main causes of amblyopia or 'lazy eye', which affects 3 per cent of children (\$85,000)

Lalit Kalra (Reablement Services) and Cathy Stinear (University of Auckland)- for 'TWIST', a prospective, single-site, assessor-blind, observational study to validate the 'Time to Walk Independently after Stroke' algorithm. Stroke is a common cause of adult disability, and being able to walk independently is an important rehabilitation goal. The study will provide an opportunity for a physiotherapist to complete a Master's degree, building Allied Health research capacity within Auckland DHB (\$70,000)

Arend Merrie and Greg O'Grady (General Surgery) - for a double-blind placebo-controlled trial of a novel intervention (prucalopride) to prevent post-operative ileus after elective colectomy. Reducing ileus improves patient experience and shortens the hospital stay for patients undergoing this surgery (\$42,500)

Giuseppe Sasso (Oncology) and Beau Pontre (University of Auckland)- for developing a non-invasive treatment alternative for atrial fibrillation (AF). The proposed alternative is cardiac radiotherapy with real-time magnetic resonance imaging target-tracking. AF is the most common sustained cardiac rhythm disorder - affecting 2.5- 4% of adults. It is associated with a twofold increase in mortality compared to people with a normal heart rhythm (\$85,000)

Sheridan Wilson (Oncology) and Annette Lasham (University of Auckland)- to investigate monitoring of plasma RNA levels during chemotherapy treatment for metastatic breast cancer. This project is expected to generate data that will inform the development of a larger validation trial. It will add to a growing body of research exploring blood-based nucleic acids as early and accurate biomarkers of response during treatment for metastatic breast cancer (\$60,000)

Auckland Medical Research Foundation

Cynthia Farquhar (National Women's Health) – Sir Harcourt Caughey Award: Core Outcomes Measures for In Fertility Treatments COMMIT Project (\$14,127)

Cynthia Farquhar (National Women's Health) – Sir Douglas Robb Memorial Fund: Verbal histories: Early Medical Women in New Zealand (\$1,338)

Johanna Montgomery, Jesse Ashton, Kirsten Finucane (Paediatric and Congenital Cardiac Service), Martin Stiles, Bruce Smail, Julian Paton- Characterising the role of cardiac neurons in heart rhythm (\$154,539)

Marie-Louise Ward, Sarbjot Kaur, Nicholas Kang (Cardiothoracic Surgical Unit), Peter Ruygrok (Cardiology)- The role of Epac in diabetic heart disease (\$155,688)

John Windsor (General Surgery), Jiwon Hong- Novel treatment for acute pancreatitis (\$159,266)

Australian and New Zealand College of Anaesthetists

Brian Anderson, Jacqueline Hannam (Paediatric Intensive Care Unit) Development of pharmacokinetic models for antibiotics prophylaxis in paediatric cardiac surgery (\$Aus25,804)

Alan Merry, Simon Mitchell (Anaesthesia and Perioperative Medicine) – Harry Daly Research Award. A bundle for anaesthetists to reduce postoperative infection: the Anaesthetists Be Clean (ABC) Study (\$Aus70,000)

Cure Kids

Cass Byrnes (Starship Respiratory Department) HOPE: Hospitalised pneumonia with extended treatment in young children to prevent long term complications (\$103,688)

Stuart Dalziel (Children's Emergency Department) Prevention of admission for bronchiolitis (\$106,253)

Andy Wood (Paediatric Oncology) Developing and characterising models of a mutated gene responsible for acute myeloid leukaemia (AML) with the aim of improving treatment and survival



Professor Stuart Dalziel

Bronchiolitis - What is the problem and who does it affect?

Bronchiolitis is a viral infection of the lower respiratory tract, and the most common reason for New Zealand children under one year of age being admitted to hospital. Maori and Pasifika children, as well as children from lower socioeconomic backgrounds, are overrepresented in these figures.

Aside from its direct effect on the children presenting with the condition, bronchiolitis is a significant drain on scarce resources. It follows that, to improve children's outcomes and reduce wasteful spending, a reduction in admissions is a good place to start.

What does this research aim to achieve?

Dr Stuart Dalziel from Starship Children's Hospital is undertaking a project which will assess the effectiveness of using a combination of nebulised adrenaline and oral dexamethasone – a corticosteroid – to treat children who present with symptoms consistent with bronchiolitis to the Emergency Department.

Previously researchers in Canada undertook a comprehensive placebo-controlled trial which showed adrenaline and corticosteroids on their own are ineffective. However, a more surprising finding was the success of the drugs when taken together; there was a 35% decrease in hospital admissions compared to the placebo group.

These findings have informed the development of a similar trial here. Dr Dalziel and his team will enrol 300 children under one year of age, half of which will receive the combination of drugs, and the other half, an identical – in smell, taste, look, colour & weight – placebo. Together with sites in Australia and Canada, 1616 infants will be enrolled across the three countries resulting in the largest ever trial in bronchiolitis, and providing clinicians with robust information to inform clinical care for this very common condition.

The trial will take place over three years allowing the team to recruit sufficient numbers of children to ensure they have confidence in the outcomes. If the findings are commensurate with the previous trial, this would present a compelling argument for changing current treatment guidelines. A positive result will also contribute directly to reducing inequality. *(Article courtesy of Cure Kids)*

Cancer Research Trust

Gemma Aburn (Paediatric Palliative Care) – Clinical Fellowship - Paediatric Palliative Care, Starship Children's Hospital, Auckland (\$98,096)

Green Lane Research and Education Fund

The Green Lane Research & Educational Fund was established at Green Lane Hospital in 1971 and incorporated under the Charitable Trusts act in 1976. Its aims then and now are to advance research and education within the departments of Cardiology, Cardiothoracic Surgery, Paediatric Cardiology and Surgery, Cardiothoracic Anaesthesia and Respiratory Medicine, within the Auckland District Health Board.

The Fund supports a Senior Research Fellowship, annual large and small project grants on a merit contested basis, a PhD Scholarship, conference support for nurses and technical staff and salary support for specified research positions. The Fund hosts an annual Scientific Session followed by the Green Lane Dinner, at which a past member or members' professional achievements are honoured.

John Beca (Paediatric Intensive Care Unit) Nitric Oxide on cardio pulmonary bypass in congenital heart disease – A randomized controlled multi-center trial (\$50,000)

Tom Gentles (Paediatric and Congenital Cardiac Service) - A feasibility study to examine fetal regional blood flow and oxygen consumption in the normal fetus. (\$7,100)

Malcolm Legget (Cardiology) Multi Ethnic New Zealand Study of Acute Coronary Syndromes – MENZACS (\$49,104)

Nigel Lever (Cardiology) Ovine models for lead extraction (\$50,000)

Rachael Parke (Cardiothoracic and Vascular Intensive Care Unit) A Multi-centre, Open Label, Randomised Controlled Trial to Compare a Conservative Fluid Management Strategy to Usual Care in Participants after Cardiac Surgery (\$100,000)

Jithendra Somaratne (Cardiology) Improving treatment of left ventricular mural thrombus: An ANZACS-QI study (\$50,000)

Ryan Welch (Respiratory Physiology) Exercise induced dyspnea caused by ventilatory limitation to exercise: A normal process for adolescents? (\$105,000)

Nigel Wilson (Paediatric and Congenital Cardiac Service) – New Zealand Rheumatic Heart Disease Registry (\$19,802)

Health Research Council of New Zealand

Frank Bloomfield (Newborn Services)- Reducing inequity through timely detection of critical congenital heart disease (\$1,184,577)

Michael Collins (Rebal Services)- The BEST-Fluids study: Better evidence for selecting transplant fluids (\$549,035)

Elana Curtis, Peter Jones (Adult Emergency Department) - Examining emergency department inequities: do they exist? (\$899,943)

Stuart Dalziel (Children's Emergency Department) – Prevention of asthma (\$4,993,727)

Eileen Gilder (Cardiothoracic and Vascular Intensive Care Unit) - To suction or not to suction - that is the question (\$250,000)

Colin McArthur (Department of Critical Care Medicine)- Bacteraemia antibiotic length actually needed for clinical effectiveness-BALANCE (\$1,191,322)

Shay McGuinness (Cardiothoracic and Vascular Intensive Care Unit) - Improving outcomes after cardiothoracic surgery (\$85,000)

Shay McGuinness (Cardiothoracic and Vascular Intensive Care Unit)

Continued page 18

+++NEWSFLASH!+++NEWSFLASH!+++NEWSFLASH!+++

Can 'live coaching' parents help children with conduct disorder?

Can conduct problems in children be resolved with parents wearing an earpiece and being coached by an expert on what to say to their child? This is one of the defining features of a parent training programme that's been running in Auckland since 2010. The programme known as Parent-Child Interaction Therapy (PCIT) has been shown to work overseas, but until now has not been robustly evaluated for its effectiveness here.

Now, thanks to a \$119,570 Foxley Fellowship grant from the Health Research Council of New Zealand (HRC), Auckland District Health Board clinical psychologist and PCIT practitioner Dr Melanie Woodfield can finally test if the programme 'sticks' with those families who have tried it.

Melanie feels investment into effective, timely interventions like PCIT is vital. "It's incredibly heart-warming to be given the time and space to do this research and the grant shows that children's mental health is up there with other priorities for funding."

PCIT is designed for children aged 2.5 – 7 years with conduct problems and other complex needs. "Some children have challenging behaviour that lasts beyond the 'terrible twos' and begins to have serious consequences, with difficulties that continue into adulthood," says Melanie. The PCIT programme originated in the United States and is widely used there, but in New Zealand it is only available

through a handful of services, including a clinic established by Melanie and a colleague in 2013 within Auckland's Kari Centre. As it stands, the service is only accessed by those referred to Auckland District Health Board's Child and Adolescent Mental Health Services.

Melanie aims to determine the effectiveness of the programme by following up families



Dr Melanie Woodfield

that have completed it, as well as exploring how more families can access this unique intervention. As part of the programme, parents wear an earpiece and interact with their child in a specific way while a highly-trained clinician provides live support and immediate feedback from behind a one-way mirror. Towards the end of treatment, the clinician accompanies the parent and child on a public outing (with the parent wearing the earpiece discretely) to encourage skills to generalise beyond the clinic. Siblings are also included in later sessions, to help parents manage the relationship between their children.

Another thing that sets PCIT apart from other parenting programmes,

says Dr Woodfield, is that parents can only move to the second part of the programme if they have reached 'mastery' of the first components.

Dr Woodfield hopes to explore ways to modify the programme so it can be accessible to more families. Childhood conduct problems have been shown to lead to a wide spectrum of adverse adult mental and physical health outcomes. "Early intervention could be the key to preventing major adult psychiatric disorders," she says. She also notes that interventions for young children are a lot less costly and more successful than interventions for older adults, where treatment becomes more complex. "A small investment in young children with challenging behaviour can pay significant dividends in later years – for the child, their family and for society."

HRC Chief Executive Professor Kath McPherson says early interventions that actually do help 'early' are key to reducing the burden on families and whānau at such a key time for childhood development, as well as reducing the burden on mental health services in New Zealand. "We need to respond to the current and future needs of our population. New Zealand is now very aware of the crucial importance of mental health and wellbeing and innovative measures like these warrant good investigation and attention."

(Article courtesy of the Health Research Council)

National Heart Foundation



Dr Nigel Wilson

Nigel Lever (Cardiology) Pacemaker and Defibrillator Lead Extraction Project (\$88,370)

Nigel Wilson (Paediatric and Congenital Cardiac Service) - The Establishment of the New Zealand Rheumatic Heart Disease Registry s (\$131,040)

A new Rheumatic Heart Disease Registry will provide important information to improve care for the mostly Māori and Pacific patients living with rheumatic heart disease (RHD), caused by rheumatic fever.

Led by Associate Professor Nigel Wilson at Starship Hospital, the registry has received a \$130,000 grant from the National Heart Foundation.

“RHD is the most common ‘acquired’ heart disease in young people in NZ, affecting them when they should be at the prime of their life, but instead they are dealing with a chronic heart disease of inequity,” says Wilson. “In many ways New Zealand leads the world in understanding acute rheumatic fever but when it comes to the heart disease it is responsible for – which can lead to premature death, heart failure, heart surgery, strokes or heart valve infections – we have very little NZ data.

“We are looking for improvements for both the patients and health services, it’s back to the basics of can we get ourselves better organised?”

During the project’s first phase, researchers will establish the numbers of Kiwis living with RHD and how they are affected by it, gathering information from existing databases and hospital admissions. The second phase will determine the quality of RHD medical and surgical care and investigate any inequalities of care.

“There are inequalities because currently Māori and Pacific are the groups that are getting rheumatic fever and therefore severe RHD, we want to understand the extent of these and how we can minimise them. We don’t have hard data for RHD like we do for acute rheumatic fever.

“We also know that because a lot of people with RHD tend to be more socially disadvantaged they are more likely to fall through the cracks and not attend health clinics. That is our impression but again, we need better data.”

Qualitative studies are also part of the whole picture as Wilson says they are learning that families see their RHD in very different ways than health professionals do. He wants to get input into how health services can evolve to meet the needs of families and patients. (Article Courtesy of the National Heart Foundation)

Royal Australasian College of Physicians

Michael Collins (Renal Services) – Jacquot Research Establishment Fellowship (\$90,000)

Royal Society Te Apārangi-Marsden Fund

Leo Cheng, Peng Du, Gregory O’Grady (General Surgery) - An Atlas of the Gut: A Framework for Integrating Structure to Function (\$950,000)

Starship Foundation Clinical Research Fund



Starship Child Health and the Starship Foundation share a vision to create, at Starship, an environment of world-class research, training and innovation that will better the lives of kiwi kids faster. In 2016, that vision took an important step forward with the announcement of a significant new investment in paediatric clinical research. Since then, over \$1.2m has been committed by the Starship Foundation to projects now underway.

This investment enables our national children’s hospital even greater ability to lead the way in evidence-based care and improved health outcomes for New Zealand’s children. The Starship Foundation is proud to fund projects that save and extend lives, lift spirits and reduce discomfort, ensure better outcome, faster recovery and less invasive treatments, and are focused on equity and prevention to accelerate the pace of change at our national children’s hospital.

The Foundation’s support for clinical research includes a pre-eminent research grant named in memory of Athlae Lyon, a long standing supporter of Starship through her involvement in the Starship Foundation. The Athlae Lyon Starship Research Trust has been a foundational supporter of clinical research at Starship, previously funding senior research fellowships. In 2017, the trustees chose Dr Hiran Thabrew’s research as the recipient of the Athlae Lyon Starship Clinical Research Award for 2018.

Clinical Research Project Grants awarded in 2017

- ▶ Dr Stuart Dalziel (Children’s Emergency Department) – Prevention of admission for bronchiolitis
- ▶ Professor Cameron Grant (General Paediatrics) – Randomised controlled trial of vitamin D to reduce acute respiratory infection health care visits with the next 12 months
- ▶ Dr Hiran Thabrew (Consult Liaison) – Starship Rescue: An e-therapy solution to treat anxiety in young people with long-term physical conditions (awarded the Athlae Lyon Starship Clinical Research Award for 2018)
- ▶ Julie Scott (Children’s Emergency Department) – Simulation use in paediatric emergency nursing skills education
- ▶ Dr James Recordon (Paediatric Orthopaedics) – A decade on: a perspective comparison of Ponseti versus surgical treatment of clubfoot in New Zealand
- ▶ Dr Cia Sharpe (Paediatric Neurology) – Neurodevelopment outcome study of neonates with hypoxic ischaemic encephalopathy and seizures from the NEOLEV2 trial
- ▶ Dr Rachel Webb and Dr William Wong (Paediatric Infectious Diseases and Paediatric Nephrology) – Post-streptococcal glomerulonephritis in New Zealand children: new insights into an old disease

Other Clinical Research Projects underway thanks to the generosity of supporters of the Starship Foundation

- ▶ Dr Gina O’Grady (Paediatric Neuroservices) - Genomic technologies for diagnosis and gene discovery in paediatric neurogenetic disease (The Athlae Lyon Starship Clinical Research Award for 2017)
- ▶ Katie Bach (Starship Oral Health Service) and Prof Cameron Grant (General Paediatrics)- Oh to be able to open wide and smile

- 
- ▶ Hiran Thabrew (Starship Consult Liaison)- Acceptability and utility of electronic screener YouthCHAT for young people with long-term physical conditions attending Starship and Year 9 Tamaki High School students and its comparison with HEADSSS assessment
 - ▶ Dr Paul Baker (Starship Paediatric Anaesthesiology) - A randomised controlled clinical trial of using Transnasal Humidified Rapid-Insufflation Ventilatory Exchange (THRIVE) to ventilate paediatric patients undergoing microlyngoscopy and bronchoscopy
 - ▶ Dr Tom Gentles (Paediatric and Congenital Cardiac Services)- Pulse oximetry screening for the detection of critical congenital heart disease in newborn infants: a study assessing feasibility of a national screening programme
 - ▶ Dr Anusha Ganeshalingham (Paediatric Intensive Care Unit)- The importance of mean arterial blood pressure in the development of brain injury in infants requiring cardiac surgery
 - ▶ Dr Sarah Missen (National Metabolic Service)- A retrospective audit of patients diagnosed with Mitochondrial Disease in New Zealand from 2000 to 2015

Celebrating **Our People** 2017



Welcome *Haere Mai*



Respect *Manaaki*



Together *Tūhono*



Aim High *Angamua*



AUCKLAND
DISTRICT HEALTH BOARD
Te Toka Tumai

CELEBRATING OUR PEOPLE

Auckland DHB Research Excellence Award

This award, offered annually in conjunction with ADHB Healthcare Excellence Awards, recognises lead authors of significant, original research papers published in the preceding year. Applications are judged by a panel of top researchers for contribution to new knowledge, potential to inform best practice, stakeholders and clinical decision making, and potential to improve healthcare delivery.

2017 Winner

Jane Alswailer and team (Newborn Services)

Prophylactic Oral Dextrose Gel for Newborn Babies at Risk of Neonatal Hypoglycaemia: A Randomised Controlled Dose-Finding Trial (the Pre-hPOD Study).



Research excellence prizewinners Drs Jane Alswailer and Joanne Hegarty at the 2017 Health Excellence Awards Ceremony

Project team: Jane Alswailer, Joanne Hegarty, Jane Harding, Gregory Gamble, Caroline Crowther, Richard Edlin.

Reference: PLoS Medicine 13(10): e1002155. doi:10.1371/journal.pmed.1002155

Low blood sugar level (hypoglycaemia) is common soon after birth, with 30% of all babies born at risk, and hypoglycaemia developing in half of these at-risk babies. Babies who develop hypoglycaemia are at risk of neurodevelopmental impairment, including developmental delay and poor school performance. Despite clinical guidelines recommending that prophylactic measures should be taken in babies at risk, there currently are no effective strategies for preventing hypoglycaemia.

Oral dextrose gel is effective for treating neonatal hypoglycaemia, but it was unknown if this could be used to prevent babies developing it. This was the first trial to demonstrate an effective strategy to reduce the incidence of neonatal hypoglycaemia, which could therefore help reduce NICU admissions and neurodevelopmental impairment.

The investigators conducted a multicenter, randomised controlled trial of prophylactic oral dextrose gel in babies at-risk of developing neonatal hypoglycaemia to determine an effective dose to reduce the incidence of this condition.

416 at-risk babies were randomised to receive either a standard (200mg/kg) or high (400mg/kg) dose of dextrose gel or placebo, either once or followed by three more doses before feeds. It was found that 200 mg/kg of 40% dextrose gel was the most effective dose. Overall, dextrose gel reduced the incidence of hypoglycaemia by over a third, and may also reduce NICU admission.

This research has the potential to improve outcomes for many babies, both in New Zealand and overseas. If long term outcomes are also improved (study in progress), this simple and inexpensive intervention could become the standard of care for up to 30% of all babies born.

Finalist:

Katie Groom and team (National Women's Health)

The EPPI Trial: Enoxaparin for the prevention of preeclampsia and intrauterine growth restriction in women with a prior history – a randomised trial.

Project team: Katie Groom, Lesley McCowan, Peter Stone, Claire McLintock

Reference: Serological and clinical outcomes of horizontally transmitted chronic hepatitis B infection in New Zealand Maori: results from a 28-year follow-up study. American Journal of Obstetrics and Gynecology, <http://dx.doi.org/10.1016/j.ajog.2017.01.014>- Article was Editor's Choice

The EPPI Trial

Enoxaparin for the Prevention of Preeclampsia and Intrauterine growth restriction – a pilot open-label randomised controlled trial

The EPPI trial was a multicentre, randomised trial exploring a potential therapy for the prevention of two of the major complications of pregnancy, preeclampsia and fetal growth restriction. The idea being that using a daily injection of low molecular weight heparin may help the placenta to function better and therefore reduce the risk of those complications.

At the end of six years we completed recruitment to the study and just in the last year we've been able to look at the results. These have not shown that the injections decreased the risk of these conditions, which, while disappointing, really is great news for us as clinicians as we can move further forward in our understanding; its great news for women that they don't need to be subjected to unnecessary injections every day during their pregnancy. Its good news for Auckland DHB that we can lead an international clinical trial.

One of the really important things in clinical medicine is not using unproven therapies which can be dangerous, so research is not just finding out that something is great, its also about showing something isn't great. We want to be mindful of the health economics of the treatments we give, and we need to be sure that the treatments we prescribe for women are safe for women, they are cost-effective for their healthcare and they are of proven benefit." Dr Katie Groom – EPPI study lead investigator

The EPPI trial was presented in the prestigious opening plenary session at the USA Society of Maternal Fetal Medicine Annual Meeting, January 2017; ranked 5th of 2115 submitted abstracts. It was invited for fast track review with the American Journal of Obstetrics and Gynaecology and was selected as 'Editors Choice', March 2017. Results will be used in future meta-analysis and strongly support the growing body of evidence that Low Molecular Weight Heparin does not reduce the risk of recurrence of preeclampsia and IntraUterine Growth Restriction. Women should not be unnecessarily exposed to this intervention.

Finalist:

Peter Jones and team (Adult Emergency Department) – Impact of a national time target on ED length of stay on patient outcomes.

Project team: Peter Jones, Alana Harper, James Le Fevre, Susan Wells, Elana Curtis, Joanna Stewart, Papaarangi Reid, Shanthi Ameratunga

Reference: Impact of a national time target for ED length of stay on patient outcomes. New Zealand Medical Journal, 12 may 2017, Vol 130, No 1455.



"We were looking at whether the Shorter Stays in ED target, which is a target looking at how long people stayed at the Emergency Department and whether this affected their quality of care.

We had some pretty interesting results. Fewer people died in the emergency department after the targets were implemented, fewer people left without having been seen. Patients were spending less time in the emergency department, especially those patients who were being admitted to hospital. When people who are due to be admitted to hospital spend longer than they should in the emergency department this blocks up the emergency department so we can't look after the new people coming in. It also means that the quality of care for those patients being admitted is impaired. We found the target achieved its aim of reducing the time that those patients spent in hospital".

Dr Peter Jone, study lead investigator

“We had a huge commitment to this research and aligning it with a Treaty of Waitangi perspective for Māori and also undertaking it with a Kaupapa Māori methodological approach, i.e. getting the research right for Māori, as well as for the whole of New Zealand”.

Dr Elana Curtis, study investigator



Awards for outstanding Emergency Department research paper

Congratulations to Adult Emergency Department researchers Drs Peter Jones, Alana Harper and James Le Fevre for being awarded the Australasian College of Emergency Medicine’s Edward Brentnall Award for 2017.

This award was made in recognition of their publication in the New Zealand Medical Journal “Impact of a national time target for ED length of stay on patient outcomes”, which was judged the most significant in the field of public health or disaster medicine in 2017 by the college. In an extraordinary double, the College also awarded the team the John Gilroy Potts Award for 2017 Best Paper. The researchers collaborated with members of the University of Auckland’s School of Population Health on the Health Research Council funded “Shorter Stays in the Emergency Department” project, which has produced nine other publications and reports in the media, including in the New Zealand Herald. The study demonstrated that implementation of the 6-hour time target drastically reduced Emergency Department length of stay and time to admission to a ward. Introduction of the target was associated with a substantial 50 per cent reduction in the number of patient deaths in Emergency Departments – that’s about 700 fewer deaths than predicted if pre-target trends had continued.

Best Research Posters

Auckland DHB Celebration Week (final week of November) was the occasion, and ACH Level 5 Atrium was the venue, for the 2017 Research Poster Competition displays. Continuing the success of previous years, over 60 posters were on display, showcasing the commitment of our staff to research, and our expertise across a diverse range of disciplines and topics. Winners for the four judging categories are below; Health Professions (Allied, Scientific, Technical)

Health Professions (Allied, Scientific, Technical)

Winner:

Iris Fontanill and Liz Painter
(Cardiac Transplant Team)

Runner Up:

Marian Smith (LabPlus Microbiology)

Medical

Winner:

Nicola Culliford-Semmens
(Paediatric and Congenital Cardiac Service)

Runner Up:

Stephen Ritchie (Infectious Diseases Department)

Nursing

Winner:

Alison Burge (Starship Community Services)

Runner Up:

Junel Padigos (Department of Critical Care Medicine)

Starship Best Children’s Research Poster

Winner:

Anna Mulholland
(Starship Respiratory Department)

Runners Up:

Moira Nelson (Starship Community Services) and
Alison Burge (Starship Community Services).

We gratefully acknowledge the continued support of this competition by the Starship Foundation.

Health and Development at School Entry: Are We Setting Tamariki Up To Fail?

A Burge, M Nelson, A van Meygaarden, F Mahony, B Kool, and A Leversha on behalf of the Welcome to School Team, and R Burt, T Nua and A Burke on behalf of Maniakalani Community of Learning, Tamaki. Starship Community, University of Auckland and Maniakalani Community of Learning.



Introduction

Health and educational outcomes are inextricably linked. Health and education systems, however, tend to operate in silos with little sharing of information of collaboration.

The introduction of school health clinics in low decile schools has provided the impetus and opportunity for health and education to work differently together.

The **Welcome to School** Project is a cross-sector collaboration between Starship Community and schools in the Maniakalani Community of Learning in Tamaki. Principals reported many children were starting school at a developmental age of 3-4 years of age without the skills required to participate in learning. In addition, they were concerned the children had significant health issues.

Aim

The aim of this project was to determine the prevalence of health, developmental, and social needs among new entrants in Tamaki.

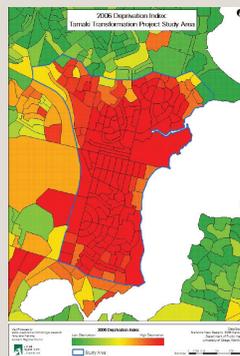
Methods

Eligible children were 5 year old tamariki starting school in one of 9 primary schools in the Maniakalani Community of Learning, Tamaki. There was a 2-stage consent process: Stage One consent for the research nurse to contact the family was obtained by teachers and Stage 2 was obtained by the nurse after the project had been explained to whanau.

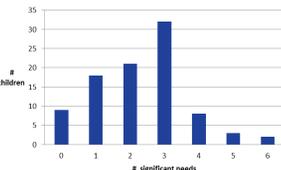
Data: Compiled using a standardised questionnaire with the primary caregiver: demographic data, health history, developmental concerns, parental developmental status (PEDS), strengths and difficulties questionnaire (SDQ), housing, and standardised questions about measures of deprivation. A brief clinical assessment: height, weight, BMI, general assessment of skin health, dental health, and a formal developmental screen using the Ages and Stages Questionnaire (ASQ). Care and protection concerns were identified using parental report, the presence of a child protection alert in ADHB, and cross check with the Oranga Tamariki database. Before School check (B4SC) data were obtained from DHB data.

Significant needs: Defined as meeting the threshold for further assessment or intervention for PEDS, SDQ, 2 or more abnormal domains on the ASQ (<2.5th centile), known to Oranga Tamariki, requiring dental extraction under GA or being overweight or obese.

Ethics approval: 127862-398561

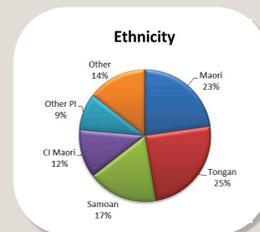


Health, developmental and social needs



Results

Study Population: 100 children and whanau participated during the 12-month study period. 90% students were Pacific or Māori.



Health: 84% of parents reported their child had excellent or very good health. 33% children were obese, and 22% required dental extractions under GA for significant dental decay.

Development: 23% parents reported significant concerns about their child's development (PEDS pathway A).

Social: Whanau reported significant levels of disadvantage: 77% in social housing, 25% had their power disconnected and 88% had received assistance from community agencies for food parcels, clothes or money in the preceding 12 months.

38% of children were known by Oranga Tamariki and an additional 7% had a contact record, mostly for Family Violence, but had not met the threshold for formal care and protection involvement.

Multiple Needs: Only 7% of children had no health, developmental or social needs. The remainder of children had multiple significant needs requiring further assessment / intervention: 71% had 2 or more significant needs. 48% had 3 or more significant needs (see below).

Very few children had been identified by existing health, education or social services prior to school entry and even less had received appropriate intervention.

Conclusions

- Children starting school in Tamaki have high levels of health, developmental and social concerns which have not been identified by the B4SC, parents, or ECEC providers prior to school entry
- Our current model of delivering health, education and social services equally is accepting a lesser deal for disadvantaged children and is increasing inequity.

Implications

- Collaboration between health and education has provided valuable data to examine how well current systems are working for children in Tamaki. Business as Usual is not enough.
- Health and education services need to have an equity focus and be delivered with proportionate universality: services and interventions which are universal, but with a scale and intensity that is proportionate to the level of disadvantage.
- The screening tools used in the WCTO schedule and B4SC are not working for disadvantaged populations. Starship Community is now using the ASQ as an additional developmental screen and are reintroducing a new entrant check linking school nurses with children/whanau. Information is being fed into the WCTO review.



Alison Burge's prizewinning poster describes the Welcome to School health and education collaboration in Auckland's low decile schools

AWARDS

Clarivate Analytics Highly Cited Researchers 2017 – a repeat performance!

Congratulations to **Professors Ed Gane** (NZ Liver Transplant Unit) and **Harvey White** (Cardiology) who made it onto Clarivate Analytics Highly Cited list for the second year running. Only a handful of New Zealanders made it onto the international list of 3539 highly cited researcher. The pair were also the two highest ranked New Zealanders, with Professor Gane appearing in the list in 703rd place, and Professor White at 955th.

New Zealand Society of Gastroenterology Young Investigator Award

Congratulations to Ibrahim Hassan, a registrar with the Liver Transplant Unit, who won the 2017 New Zealand Society of Gastroenterology's Hepatology Young Investigator Award at the Society's annual meeting in November.

Ross Craig Award 2017 – Newmarket Rotary Charitable Foundation

Congratulations to Auckland DHB medical oncologist **Dr Rosalie Stephens**, who was awarded the Ross Craig Oncology award. The award is targeted towards Auckland medical, surgical and pathology registrars who treat patients with cancer. It provides an opportunity for these mid-career doctors to step out of clinical life and undertake first-hand research into the genomic abnormalities that underlie cancer. Dr Stephens' project aims to identify non-invasive disease biomarkers in metastatic melanoma patients in order to improve patient outcomes by detection of relapse, earlier than current tests.

Young Physicist Investigator Competition

Congratulations to **Suzanne Lydiard** (Oncology Physics) for being chosen as Runner Up in the John R Cameron Young Investigator Competition at the Annual American Association of Physicists in Medicine Conference, held in Denver in July/August 2017. Her abstract "First Cardiac Radiosurgery MLC Tracking Results" was one of 10 chosen as a finalist out of over 350 entries and then the top 3 winners were chosen by the score from their Oral presentations.

Summer Students Awards 2017

Student researchers work at Auckland DHB during the summer months each year. These studentship projects are well regarded as being one of the best ways to utilise local talent to find out things Auckland DHB is interested in knowing, and for a very small investment. The A+ Trust supports Auckland DHB staff to devise projects which will answer important clinical question by funding stipends for student workers. Ten of these projects were active in the summer of 2017-2018. The scheme runs under the auspices of the Auckland Academic Health Alliance, with the Faculty of Medical and Health Sciences administering the grants. The end-of-project reports prepared by the students were recently assessed for scientific quality by an expert panel. The winner and runner up of the 2017 A+ Trust Summer Studentship prize for best students' reports were;

- ▶ **Thalia Babbage** (winner), supervised by **Kevin Ellyett** (Respiratory Physiology) "*Incidence of flow limitation during exercise in healthy adolescent males and its association with perceived dyspnoea on exertion*"
- ▶ **Robert Gow** (runner up), supervised by **Timothy Cutfield and Stephen Ritchie** (Infectious Diseases) "*Has pathway development reduced unnecessary Cellulitis admissions at ADHB?*"
- ▶ **Rachel Basevi** (runner up), supervised by **Tim Short** (Anaesthesia) "*Sarcopenia assessment in the older preoperative surgical co-morbid patient in the anaesthetic assessment clinic: A prospective observational pilot study*"



2017 A+ Trust student prizewinners Robert Gow, Thalia Babbage and Rachel Basevi at the awards ceremony





NEW RESEARCH



NEW RESEARCH UNDERWAY

Auckland DHB researchers are instigators and leaders of projects in almost all clinical and support services of the organisation. Many participate in international, collaborative, multi-centre studies, and in commercially funded clinical trials of pharmaceuticals and medical devices. ADHB also provides essential resources and partnerships for researchers from other organisations.

Below is presented a snapshot of nearly 300 new research projects that commenced at Auckland DHB in 2017, along with the lead investigator.

Allied Health – Audiology, Nutrition, Pharmacy, Physiotherapy, Social Work, Speech & Language:

Cherie Appleton - Field Education Enhanced - does the application of E Portfolio pedagogy embolden transformational learning in social work field placement, if so how?

Tayla Bowers - Investigation into the effects of e-prescribing on antimicrobial stewardship at Auckland DHB

Joanne Beachman - End of line spectroscopic verification of five intravenous oncology drugs, for hospital pharmacy compounding

Kim Brackley - Visual Thinking Strategies - using art to support the development of critical thinking in pharmacy technicians

Stella Friedlander - Retrospective audit of zinc and Vitamin D status of eating disorder inpatients newly admitted to Starship since 2009

Chandini Gadhvi - In-patient physiotherapy management of #NOF (Neck of femur fracture) patients at Auckland City Hospital: are we meeting current clinical care standards?

Dale Sheehan - From Theory to Practice. The application of workplace learning theory to inform the development of a clinical placement for Medical Imaging Technology Students

Megan Tennant-Humphreys - The role of physiotherapy in the management of frail elderly patients in the Admissions and Planning Unit (APU), Auckland City Hospital

Ricky Wan - Retrospective audit of the use of prokinetics in critically ill patients at Auckland District Health Board (ADHB) and Counties Manukau District Health Board (CMDHB)

Anaesthesia – Adult, Cardiothoracic, National Women’s and ORL:

Ivan Bergman - A retrospective audit of PONV and pain in ADHB bariatric patients

Doug Campbell - Validation and extension of a multi-variable prediction model of perioperative mortality in a national perioperative dataset: the Surgical Outcome Risk Tool New Zealand study

Karen Day - What risk information do patients want when considering high risk surgery?

Carolyn Deng - 13-year trend in acute and elective surgery for patients aged 60 and above at Auckland District Health Board

Kaveh Djamali - Audit of perioperative management of diabetes on Level 8 Theatres by anaesthetists

Philip Guise - Continuation of new oral anticoagulants for cataract and vitreoretinal surgery: an audit

Jack Hill - Measuring haemoglobin concentration in obstetric patients using Sysmex XE 2100 and point-of-care ABL800/FLEX: a comparison of methods

Alan Merry - Linking days alive and out of hospital with surgical site infection: the ‘LASSI’ feasibility study

Leesa Morton - A pilot randomized controlled trial of two interventions to manage dry mouth pre-operative elective surgical patients: I AM DRY

EeMei Soo - Audit of the Efficacy of External Cephalic Version (ECV) in Patients with Breech Presentations

Andrew Wilson - The 2nd Sprint National Anaesthesia Project (SNAP2): Epidemiology of Critical Care provision after Surgery

Anaesthesia (Starship):

Paul Baker – A randomised controlled clinical trial of using Transnasal Humidified Rapid-Insufflation Ventilatory Exchange (THRIVE) to ventilate paediatric patients undergoing microlaryngoscopy and bronchoscopy

Amanda Dalton - Prospective Evaluation of emergency red bell calls and adverse events in Starship Theatres

Jacqueline Hannam - An audit and simulation study of current compliance with antibiotic dosing protocols at Starship Children’s Hospital

Michael Tan - An audit of humidified high flow nasal prong oxygen usage in Starship PACU

Elsa Taylor - Opioid prescriptions at the postoperative anaesthesia care unit in Starship Children's Health

Elsa Taylor - Paediatric postoperative vomiting (and nausea) incidence and prophylaxis

Cardiology (Adult):

Sheila Bacus - Fasting before an elective coronary Angiogram and Angioplasty. (FAAST)

Aleisha Easton - The Utility of Balloon Mitral Valvuloplasty in Pregnancy for Severe Symptomatic Mitral Stenosis: A retrospective Study of Outcomes

Benjamin Liu - Retrospective audit of ST elevation myocardial infarction associated left ventricular thrombosis and its complications in Auckland region

Martyn Nash - Biomechanical analyses of myocardial disease: a pilot study

Peter Ruygrok - Biochemical and Molecular Analysis of Novel Neurohumoral Factors Derived from Failing Cardiac Tissue

Ralph Stewart - Improving outcomes of patients with atrial fibrillation in primary care. B-SAFE trial

Marie-Louise Ward - Exploration of mitochondrial dynamics in the contractile dysfunction of diabetic heart disease

Mark Webster - A Prospective, Randomized, Controlled, Multi-Centre Study to Establish the Safety and Effectiveness of the SAPIEN 3 Transcatheter Heart Valve in Low Risk Patients who have Severe, Calcific, Aortic Stenosis Requiring Aortic Valve Replacement

Mark Webster - Prospective, Multi-Center, Single Arm Study of the Medeon Biodesign XPro™ Suture-Mediated Vascular Closure Device System

Mark Webster - The genetics of spontaneous coronary artery dissection

Cardiology (Starship):

Jessee Fia'ali'i - A qualitative exploration of the psychosocial impacts of cardiac inherited diseases in Pasifika and Maori people

Tom Gentles - 30 years of surgery for congenital heart disease - time related outcomes

Jascha Kehr - Impact of timing of the Glenn operation on Fontan outcomes

Claire O'Donovan - A cross sectional study investigating the psychological sequelae of cardiac inherited diseases experienced by individuals listed on the New Zealand Cardiac Inherited Diseases Register

Claire O'Donovan - People's experiences of Cardiac Inherited Diseases in the year after referral for investigation

Kathryn Rice - Fontan Conversion surgery at Starship Children's Hospital - a retrospective study of the outcomes of a modified anti-arrhythmia surgical technique which aims to preserve the sinus

Jon Skinner - Exercise in Cardiovascular Disease: LIVE-HCM / LIVE-LQTS

Jon Skinner - Genome wide investigation in cardiac inherited diseases

Jon Skinner - Outcomes in Timothy Syndrome

Nigel Wilson - The New Zealand Rheumatic Heart Disease Registry

Cardiothoracic Surgical Unit:

Andrei Belyaev - Inflammatory biomarkers in acute cholangitis

Anita Fitzgerald - An investigation of infection rates in patients receiving implantable cardiac devices

Giridhar Hariprasad - Thoracoscopic Left Ventricular lead placement for Cardiac Resynchronisation Therapy: an audit of outcomes

David Haydock - Dissections audit

Cardiothoracic and Vascular Intensive Care Unit:

Paul Drury - Dysphagia after cardiothoracic surgery

Paul Drury - Re-admissions to CVICU - a retrospective audit

Shay McGuinness - A pilot multicentre blinded randomised controlled clinical trial of cryopreserved platelets vs. conventional liquid-stored platelets for the management of post-surgical bleeding. The CLIP study

Shay McGuinness - Improving Outcomes after Cardiothoracic Surgery

Shay McGuinness - IV iron for Treatment of Anaemia before Cardiac Surgery; The ITACS Trial

Shay McGuinness - REACTOR: A multi-centre, phase II, randomised, open label, clinical trial comparing combined prophylactic intravenous paracetamol and early targeted physical cooling for fever with standard temperature management in mechanically ventilated adult

Shay McGuinness - The Intensive Care Unit Randomised Trial Comparing Two Approaches to OXYgen therapy: The ICU-ROX trial

Rachael Parke - An Australia and New Zealand-wide point prevalence study to determine ECMO-related infection rates and cannulae dressing and securement practices in patients receiving extracorporeal membrane oxygenation

Rachael Parke - The Extended Study of Prevalence of Infection in Intensive Care III (EPIC III)

Rachael Parke - The Intensive Care Unit Randomised Trial Comparing Two Approaches to Oxygen therapy: Translating Research into Practice Study

Community Services

Andrew Jull - A randomized controlled trial of wool-derived keratin dressings for venous leg ulcers. Keratin4VLU

Critical Care Medicine

Junaid Beig - Survival Outcome of Admissions in Critical Care unit with Gastrointestinal Bleeding

Andrew Jull - Sleep Quality of Non-mechanically Ventilated Patients and the Affecting Factors in the Intensive Care Unit

Colin McArthur - Plasmalyte 148 versus saline study (PLUS)

Colin McArthur - Randomised, Embedded, Multifactorial Adaptive Platform for Community Acquired Pneumonia (REMAP-CAP)

Rachael McConnochie - Delayed defecation and the impact on brain injured critically ill patients

Lynette Newby - A prospective multicentre observational study of aneurysmal subarachnoid haemorrhage in Australasian intensive care – PROMOTE-SAH

Dermatology (Adult):

Lydia Chan - Characteristics of lichenoid drug reactions at ADHB from 2006-2010

Denesh Patel - Cost and loss of productivity of hospital-based phototherapy: an Auckland, New Zealand perspective

Denesh Patel - Ethnic Skin- Defining inequalities to accessing public funded dermatology service

Dermatology (Starship):

Diana Purvis - Long term outcomes of methotrexate treatment for childhood and adolescent eczema

Diabetes Service (Adult):

Sarah Gray - Northern Regional Diabetes-related lower limb amputation audit

Manish Khanolkar - Audit on young adults (<40 years) with type 2 diabetes (T2D) registered at Auckland Diabetes Centre (ADC)

Simon Speight - The Three Great Pathologies of diabetic foot disease

Fiona Wu - The Fenofibrate And Microvascular Events in Type 1 diabetes (FAME 1) Eye

Emergency (Adult):

Stephanie Mackie - Does videolaryngoscopy improve Emergency Medicine registrars' success rates? An observational study in an urban, tertiary centre

Charlotte May - Retrospective validation of a risk stratification tool developed for management of patients with blunt chest wall trauma

Anil Nair - Assessing the relationship between actual and perceived waiting times in a metropolitan emergency department

Mike Nicholls - Staff wellbeing in an urban Emergency Department in Aotearoa New Zealand

Emergency (Starship):

Stuart Dalziel - Australian Paediatric Head Injury Rules Study: Assessing the gap prior to implementation: APHIRST Gap

Stuart Dalziel - How are we managing acute asthma in children? A PREDICT study

Endocrinology (Starship):

Wayne Cutfield - Is usage of antibiotics in early childhood related to obesity?

Paul Hofman - A phase 3, open-label, randomized, multicentre, 12 months, efficacy and safety study of weekly MOD-4023 compared to daily Genotropin therapy in pre-pubertal children with growth hormone deficiency

Craig Jefferies - The incidence and epidemiology of Acute Kidney Injury in children with Type 1 diabetes

Craig Jefferies - Preventing diabetic ketoacidosis in new patients with type 1 diabetes - the NO-DKA Study: New-Onset Diabetes Ketoacidosis

Gastroenterology (Adult):

Wayne Bai - Validation of Baveno IV criteria to identify cirrhotic patients not requiring endoscopic surveillance for varices

Maggie Ow - Colonoscopy in the elderly

David Rowbotham - A Long-Term Extension Study to Evaluate Filgotinib in Subjects with Crohn's Disease

David Rowbotham - A Long-Term Extension Study to Evaluate the Safety of Filgotinib in Subjects with Ulcerative Colitis

David Rowbotham - Combined Phase 2b/3, Double-blind, Randomized, Placebo-Controlled Studies Evaluating the Efficacy and Safety of Filgotinib in the Induction and Maintenance of Remission in Subjects with Moderately to Severely Active Ulcerative Colitis

David Rowbotham - Combined Phase 3, Double-blind, Randomized, Placebo-Controlled Studies Evaluating the Efficacy and Safety of Filgotinib in the Induction and Maintenance of Remission in Subjects with Moderately to Severely Active Crohn's Disease

Gastroenterology (Starship):

Helen Evans - Pediatric intestinal transplant listing criteria - a multicenter validation study

Helen Evans - Retrospective single-centre comparison of innovator vs generic tacrolimus in de novo paediatric liver transplant patients

Reena Ho - An audit of reported drug allergy amongst Starship hospital inpatients, with development of a clinical guideline for those reporting allergy to penicillins, with post implementation re-audit

Genetics Service

Kimberley Gamet - Implementing mainstreaming of genetic testing of women with ovarian cancer: evaluation of a training programme for oncology health professionals

Russell Snell - The molecular basis of Autism Spectrum Disorder (ASD) and other neurodevelopmental disorders (NDDs)

Haematology (Adult):

Leanne Berkahn - A Phase II/III, Randomized, Multicentre Study of Bendamustine with MOR00208 versus Bendamustine with Rituximab in Patients with Relapsed or Refractory Diffuse Large B-Cell Lymphoma (R-R DLBCL) who are not eligible for high-dose chemotherapy (HDC) and autologous stem-cell transplantation (ASCT)

Leanne Berkahn - A Phase 3, Randomized, Double-blind, Placebo-controlled, Multicenter Study of Bendamustine and Rituximab (BR) Alone Versus in Combination with Acalabrutinib (ACP-196) in Subjects with Previously Untreated Mantle Cell Lymphoma

Leanna Berkahn - A Phase III, Randomized, Open-label, Clinical Trial to Compare Pembrolizumab with Brentuximab Vedotin in Subjects with Relapsed or Refractory Classical Hodgkin Lymphoma

Leanne Berkahn - Obinutuzumab with Idasanutlin and Venetoclax in Lymphoma

Peter Browett - A phase 2 open-label proof of concept study to assess the efficacy, safety, and pharmacokinetics of ACH-0144471 in untreated patient with paroxysmal nocturnal hemoglobinuria (PNH)

Peter Browett - A phase II study of dasatinib followed by imatinib in newly diagnosed, previously untreated patients with chronic phase CML

Peter Browett - A Phase 3, Multicenter, Randomized, Double-blind, Double-dummy, Active-controlled Study to Assess the Efficacy and Safety of Maribavir Compared to Valganciclovir

Peter Browett - A Screening Study for the ACH471 100 Treatment Study in Patients with Untreated Paroxysmal Nocturnal Hemoglobinuria

Peter Browett - Stopping TKI therapy in Chronic Myeloid Leukaemia - an audit of patient outcomes in the Auckland region

Nicole Chien - Rapid diagnosis of acute promyelocytic leukaemia (APML) in Auckland DHB - is PML protein localisation assay useful?

Haematology/Oncology (Starship):

Ruellyn Cockcroft - ASSET; Acute Lymphoblastic Leukaemia Subtype and Side-Effects

Nyree Cole - COG AAML1531 - Acute myeloid leukemia in Down Syndrome

Lochie Teague - ALL SCTped 2012 FORUM: Allogenic Stem Cell Transplantation in Children and Adolescents with Acute Lymphoblastic Leukaemia

Lochie Teague - A phase 3, randomised, adaptive study comparing the efficacy and safety of defibrotide vs best supportive care in the prevention of hepatic veno-occlusive disease in adult and paediatric patients undergoing haematopoietic stem cell transplant. Jazz_15-007

Karen Tsui - International Diffuse Intrinsic Pontine Glioma (DIPG) Registry and Repository

Mark Winstanley - Ewing 2008

Mark Winstanley - Prognostic value of the Curie Score in children with high-risk neuroblastoma undergoing immunotherapy treatment

Andrew Wood - High risk neuroblastoma study 1.7 of SIOP-Europe (SIOPEN): HR-NBL-1.7/SIOPEN

He Kamaka Waioara:

Helen Wihongi - Maori were the most physically perfect race living on the face of the earth - turning the curve on diabetes

Infectious Diseases (Adult):

Tim Cutfield - Has pathway development reduced unnecessary Cellulitis admissions at ADHB?

Mitzi Nisbet - What is the additional benefit from three screening sputums versus two for diagnosing smear negative, culture positive pulmonary Tuberculosis?

Infectious Diseases (Starship):

Emma Best - Invasive Staphylococcus aureus infections and hospitalisations (ISAIAH)

Emma Best - Non type B Haemophilus influenzae invasive disease in childhood in the Auckland region DHBs 1995-2016

Emma Best - Pre-school Osteoarticular Infection (POI) Study

Diana Lennon - Is a rheumatic fever register the best surveillance tool to evaluate rheumatic fever control in the Auckland region?

Sarah Primhak - Community onset invasive bacterial sepsis in infants under 3 months; experience of a tertiary paediatric hospital over 10 years

Sarah Primhak - Starship Script - an antibiotic prescribing smartphone application for Starship Hospital

LabPlus (Immunology, Microbiology, Pathology, Virology):

Karen Bartholomew - Surgical consent forms in New Zealand – understanding their role in the use of clinical tissue for research

Rexson Tse - A 1-year retrospective study on the changes in post mortem vitreous humour magnesium, sodium and chloride levels in salt water drowning deaths

Liver Transplant Unit:

Wayne Bai - Validation of Baveno IV criteria to identify cirrhotic patients not requiring endoscopic surveillance for varices

Ed Gane - A Follow-up Study to Assess Resistance and Durability of Response to AbbVie Direct-Acting Antiviral Agent (DAA) Therapy (ABT-493 and/or ABT-530) in Subjects Who Participated in Phase 2 or 3 Clinical Studies for the Treatment of Chronic Hepatitis C Virus (HCV) Infection

Ed Gane - A Phase 2, Multicenter, Open-Label Study to Evaluate the Efficacy and Safety of Sofosbuvir/Velpatasvir for 12 Weeks in Subjects with Chronic HCV Infection Who are on Dialysis for End Stage Renal Disease

Ed Gane - A phase IIIb, open-label, multicentre, international randomised controlled trial of simplified treatment monitoring for 8 weeks glecaprevir (300mg)/pibrentasvir (120mg) in chronic HCV treatment naïve patients without cirrhosis

Ed Gane - A Prospective 3-Year Follow-up Study in Subjects Treated in a Preceding Phase 2 or 3 Study with a Regimen Containing Odalasvir and AL-335 With or Without Simeprevir for the Treatment of Hepatitis C Virus (HCV) Infection

Ed Gane - Comparing hepatitis C care and treatment in a primary health care service with a tertiary hospital: a randomised trial

Ed Gane - Phase 1b Study Evaluating the Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of GS-9688 in Patients with Chronic Hepatitis B

Ed Gane - Study of the Safety and Efficacy of Sofosbuvir/Velpatasvir/Voxilaprevir for 12 Weeks in Subjects who Participated in a Prior Gilead Sponsored HCV Treatment Study

Rachael Harry - Improving long term outcomes following paediatric liver transplantation: assessing outcomes from 5 years of the Young Persons Liver Clinic

Rachael Harry - Retrospective analysis of diagnosis, management and outcomes of patients with autoimmune hepatitis (AIH) managed at a specialist clinic at New Zealand Liver Transplant Unit (NZLTU)

Ibrahim Hassan - Assessing long term outcomes following liver transplant for non-alcoholic steatohepatitis (NASH) cirrhosis over the last 18 years

Ibrahim Hassan - Assessing long term outcomes following Trans-jugular Intrahepatic Porto-Systemic Shunts (TIPSS)

Ibrahim Hassan - Assessing long term outcomes of Hepatocel-

lular Carcinoma (HCC) at the Liver Transplant Unit over the last 20 years

David Orr - A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of Cenicriviroc for the Treatment of Liver Fibrosis in Adult Subjects with Nonalcoholic Steatohepatitis

David Orr - A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Safety and Efficacy of Selonsertib in Subjects with Nonalcoholic Steatohepatitis (NASH) and Bridging (F3) Fibrosis GS-US-384-1943

David Orr - A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Safety and Efficacy of Selonsertib in Subjects with Compensated Cirrhosis due to Nonalcoholic Steatohepatitis (NASH) GS-US-384-1944

David Orr - A randomized, patient and investigator blinded, placebo-controlled, multicenter study to assess the safety, tolerability, pharmacokinetics and efficacy of LMB763 in patients with non-alcoholic steatohepatitis (NASH)

Debi Prasad - Fatty liver / NAFLD (Non Alcoholic Fatty Liver Disease) carries increased risk of HCC (Hepato Cellular Carcinoma) in Chronic Hepatitis B patients

Mental Health (Adult):

Chris Bullen - An open-label randomised-controlled clinical trial to evaluate the effectiveness and safety of combining varenicline with bupropion or nicotine e-cigarettes on smoking abstinence in people with co-existing conditions

Gary Cheung - Socio-demographic and disease-related predictors of caregiver burden in dementia

Trish Du Villier - Dialectical Behaviour Therapy (DBT) groups for cancer patients

Ian Soosay – Audit of management of self-harm in primary care following discharge from ED

Inoka Wimalaratne - A cross-cultural comparison of general hospital specialists' attitudes toward management of psychological/psychiatric problems

Christine Winspear - Metabolic monitoring: a clinical audit and nurses perceptions of monitoring

Richard Worrall - Legal authorities for residents without the legal capacity to consent to care

Mental Health (Starship):

Joanna Appelby - Cross-sector information sharing in youth justice residences

Emily Cooney - Outcome evaluation of the Kari Centre Dialectical Behaviour Therapy Programme

Josephine Stanton - A qualitative study of experiences young people and families report of admission to an acute adolescent mental health inpatient unit

Hiran Thabrew - Acceptability and utility of electronic screener YouthCHAT for young people with long-term physical conditions attending Starship Hospital and Year 9 Tamaki high school students and its comparison with HEEDSSS assessment

Hiran Thabrew - *Game for Health Level 2: Development of a Prototype eHealth Intervention to Treat Anxiety in Young People with Long-term Physical Conditions*

Tanya Wright - *E-screening and clinical decision support for depression in pregnant mothers*

National Metabolic Service

Sarah Missen - *The NZ Experience of Mitochondrial Disease: 2000-2015*

National Women's Health – Fertility Plus, Gynaecological Oncology, High Risk Maternity, Midwifery, Obstetrics and Gynaecology:

Lois Eva - *EXCISE – EXcisional treatment Comparison for In Situ Endocervical adenocarcinoma*

Lois Eva - *Trends in squamous cell carcinoma of the vulva*

Lois Eva - *Trends in the diagnosis of high grade cervical abnormalities in young women in the post vaccination era*

Katie Groom - *Antenatal corticosteroids prior to planned caesarean section (CS) delivery from 35+0 weeks gestation; a randomised controlled trial assessing the effects on newborn respiratory morbidity and glycaemic control – participant feasibility study*

Diana Lennon - *A Phase 3, Randomized, Observer-Blind, Placebo-Controlled, Group-Sequential Study to Determine the Immunogenicity and Safety of a Respiratory Syncytial Virus (RSV) F Nanoparticle Vaccine with Aluminium in Healthy Third-trimester Pregnant Women; and Safety and Efficacy of Maternally Transferred Antibodies in Preventing RSV Disease in their Infants*

Michele Lomax - *What is the experience for women requiring hospitalisation for an extended time in their pregnancy?*

Chris McKinlay - *Characteristics of newborns with prolonged hypoglycaemia*

Lynn Sadler - *A comparison of ethnicity data collections for mothers, and their newborns, who birthed at Auckland and Waitemata DHB maternity facilities*

Peter Stone - *The Effect of maternal sleep position in small for gestational age pregnancy*

Ai Ling Tan - *What are the patterns of referral and uptake of BRCA testing of eligible women with ovarian cancer in NZ?*

Jeremy Tuohy - *An assessment of antenatal corticosteroids in women with Diabetes in Pregnancy; Adherence to protocol, maternal and neonatal glycaemic control*

Philippa Walker - *Bowel resection rates in patients with ovarian cancer*

Michelle Wise - *Outpatient balloon induction of labour versus inpatient prostaglandins; a randomized controlled trial. OBLIGE*

Neurology (Adult):

Peter Bergin - *Open Label Extension Study to ZYN2-CL-03 to Assess the Long Term Safety and Efficacy of ZYN002 Administered as a Transdermal Gel to Patients with Partial Onset Seizures (STAR 2)*

Benson Chen - *Heidenhain variant of Creutzfeldt-Jakob Disease in the Auckland region: an audit of cases*

Jennifer Pereira - *Identification of BBB disrupting factors in serum of patients with relapsing remitting multiple sclerosis*

Richard Roxburgh - *The Motor Neurone Disease Patient Registry*

Julia Slark - *A retrospective study of patients who have died from stroke in ADHB in January 2016 - January 2017*

Julia Slark - *A study to identify key points in the pathway of stroke survivor's transfer to aged residential care or private hospital after first ever stroke*

Cathy Stinear - *A single-site observational study of the recovery of voluntary motor activity and somatosensory function after stroke*

Caroline Woon - *Oral hygiene in neuroscience nursing*

Neurology (Starship):

Gina O'Grady - *Genomic technologies for diagnosis and gene discovery in paediatric neurogenetic disease*

Neurosurgery:

Abhinav Jain - *Outcome analysis of all patients undergoing posterior fossa decompression for Chiari Malformation at Auckland City Hospital*

Abhinav Jain - *Outcome analysis of all patients undergoing resection of intracranial metastases from Renal Cell Carcinoma at Auckland City Hospital, 2003-2015*

Abhinav Jain - *Outcome analysis of all patients undergoing surgical resection of intraventricular tumours at Auckland City Hospital, 2003-2016*

Abhinav Jain - *Outcome analysis of all paediatric patients undergoing surgical treatment for brain Arteriovenous Malformation (AVM) at Auckland City Hospital, 2007-2016*

Andrew Law - *Creation of the Australasian Shunt registry*

Edward Mee - *NEWTON 2: Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Efficacy and Safety Study Comparing EG-1962 to Standard of Care Oral Nimodipine in Adults with Aneurysmal Subarachnoid Hemorrhage*

Newborn:

Malcolm Battin - *Preventing Adverse Outcomes of Neonatal Hypoxic Ischaemic Encephalopathy with Erythropoietin: A Phase III Randomised Placebo Controlled Multicentre Clinical Trial: PAEAN*

Sarah Jane Bellhouse - An audit comparing before and after the use of radio-opaque contrast to check percutaneous intra-vascular central catheter tip location

Sarah Jane Bellhouse - Audit of feeding practices in an at-risk population in NICU to estimate the need for Donor Human Breast Milk

Anneke de Bie - The Meaning of Milk: opinions of mothers of preterm infants (<32wks gest.) and health professionals working with these infants regarding the milk that these infants receive

Jo Hegarty - Audit of hyperbilirubinemia monitoring in neonates

Toni Shepherd - Pilot of PAT 2.0 (Psychosocial Assessment Tool v.2) in the ACH NICU

Nursing:

Gillian Allen - In situ high fidelity simulation: Clinical Nurse Educators' perspectives

Stephanie Clark - Fever management: current nursing practices in a paediatric inpatient population

Maria Hermoso - Exploring the reasons and aspects of nursing care most commonly missed in nurses caring for cancer patients

Hollie McDonald - Supporting District Health Board managers to implement leadership skills

Erin Ward - Embedding organisational values: Evaluation of a pilot test of an educational intervention

Oncology (Adult):

Reuben Broom - A Randomized, Open-Label, Phase 3 Study of Abemaciclib combined with Standard Adjuvant Endocrine Therapy versus Standard Endocrine Therapy Alone in Patients with High Risk Early Stage Hormone Receptor Positive, Human Epidermal Receptor 2 Negative, Breast Cancer

Vinayak Dev - An investigation into the psychological predictors of physical functioning amongst chemotherapy patients

Sanjeev Deva - A Phase 1b/2, Open-label, Multicenter, Dose-escalation and Expansion Trial of Intratumoral SD-101 in Combination with Pembrolizumab in Patients With Metastatic Melanoma or Recurrent or Metastatic Head and Neck Squamous Cell Carcinoma

Sanjeev Deva - A Phase IIa Open-Label Trial to Investigate the Safety, Tolerability, Pharmacokinetics, Biological, and Clinical Activity of AGEN1884 in Combination with Pembrolizumab in Subjects

Anne Fraser - WINGS: why are indigenous people not getting surgery?

Nuala Helsby - An observational study to assess the ability of the thymine loading test to prospectively categorise patients with gastrointestinal or breast cancer who cannot tolerate fluoropyrimidine treatment (THYmine 2)

Orlaith Heron - Cervical Cancer in Auckland DHB- outcomes of primary definitive chemoradiation for FIGO IB1-IVA Cervical Cancer in the Auckland region 2003-2016

Carmel Jacobs - A Phase 3, Multinational, Randomised, open-label, Parallel-arm study of Avelumab (MSB0010718C) in Combination with Axitinib (INLYTA®) versus Sunitinib (SUTENT®) monotherapy in the first-line treatment of patients with Advanced Renal Cell Carcinoma

Michael Jameson - Outcomes of Patients Managed in New Zealand Blood and Cancer Centres

Louis Lao - A randomised phase 2 trial of nivolumab and stereotactic ablative body radiotherapy in advanced non-small cell lung cancer, progressing after first or second line chemotherapy

Michael Lee - Impact of formalised multidisciplinary meeting on referral rate for neoadjuvant chemotherapy and survival outcomes for muscle invasive bladder cancer: The Auckland Experience

Michael McCrystal - A Phase 3, Double-Blinded, Randomised, Placebo-Controlled Study of Atezolizumab Plus Cobimetinib and Vemurafenib Versus Placebo Plus Cobimetinib and Vemurafenib in BRAFV600 Mutation-Positive Patients with Unresectable Locally Advanced or Metastatic Melanoma

Angela Mweempwa - Audit of patients with clear cell carcinoma of the ovary in the Auckland region

Vikash Patel - Hypofractionated radiotherapy on locally advanced head and neck cancer

David Porter - A Randomized, Double-Blind, Phase III Study of Pembrolizumab (MK-3475) plus Chemotherapy vs Placebo plus Chemotherapy for Previously Untreated Locally Recurrent Inoperable or Metastatic Triple Negative Breast Cancer – (KEY-NOTE-355)

Cristin Print - Blood biomarkers for patients with melanoma

Giuseppe Sasso - An international randomised phase II trial of Stereotactic Ablative Radiotherapy (SABR) for treatment of oligometastases to the lung (TROG 13.01 - SAFRON II)

Karen Spells - Patient satisfaction and medication adherence in a nurse led telephone follow up clinic for women taking adjuvant endocrine therapy for breast cancer

Rosalie Stephens - A Phase III, Open-Label, Multicenter, Two-Arm, Randomised study to Investigate the Efficacy and Safety of Cobimetinib Plus Atezolizumab versus Pembrolizumab in Patients with Previously Untreated Advanced BRAF Wild-Type Melanoma

Rosalie Stephens - Compliance with guidelines for BRCA testing in patients with epithelial ovarian, fallopian tube or peritoneal cancer: an audit of 2015 practice

Michelle Wilson - A Phase 1 Study of the Safety, Tolerability, and Pharmacokinetics of MGA012 in Patients with Advanced Solid Tumors

Michelle Wilson - A Phase II, Open-Label, Randomized, Multi-Centre Study, of Neoadjuvant Olaparib in Patients with Platinum Sensitive Recurrent High Grade Serous Ovarian/Primary Peritoneal or Fallopian tube Cancer (The NEO trial)

Michelle Wilson - 30-day mortality post systemic anti-cancer therapy in the Auckland region

Sheridan Wilson - The timeliness of HER2 FISH results on Auckland breast cancer samples

Sheridan Wilson - Use of pertuzumab in HER-2 positive metastatic breast cancer in Auckland District Health Board

Ophthalmology:

Jennifer Craig - Evaluating the impact of chalazia and their treatment on the meibomian glands

Jay Meyer - Prevalence and outcomes of retinal diseases treated at the Auckland District Health Board

Rachael Niederer - Endophthalmitis: retrospective review and ongoing monitoring for endophthalmitis outbreak

Hussain Patel - A retrospective review of Auckland DHB glaucoma patients

Keith Pine - The anatomical and physiological response of the anophthalmic socket to prosthetic eye wear over time

Oral Health:

Katie Bach - Oh to be able to open wide and smile: (Sub-study of Growing Up in New Zealand study)

Liam Moore - Intraoperative O-arm CT assessment of orbital reconstruction

ORL – Head and Neck Surgery:

Richard Douglas - An Exploratory Safety Study of 480 Biomedical Mometasone Furoate Sinus Drug Depot (MFSDD) in Adult Patients with Chronic Sinusitis

Richard Douglas - Effect of probiotic BLIS M18 on the post-radiotherapy oral microbiome

James Johnston - Lemierre's syndrome caused by *Citrobacter freundii*

Nick McIvor - Preoperative serum calcitonin as a predictor of tumour burden and guide to extent of surgery in Medullary Thyroid Cancer patients

Kevin Smith - Role of PET CT in the head and neck cancer pathway

David Vokes - Laryngeal injury and dysphagia after cardiac surgery

ORL (Starship):

Jeyanthi Kulasegarah - Bonebridge - a new transcutaneous bone conduction hearing device: our experience in children with atresia and microtia

Michel Neeff - The age and quantification of petrous apex pneumatization in pediatric patients

Orthopaedics (Adult):

Matthew D'Arcy - Synovasure: an independent and local audit

Rushi Penumarthy - Incidence of forearm diaphyseal fracture in the South Auckland population. A study looking at differences from international 'normal' and ethnic differences

Mark Zhu - Wound closure and follow-up after TKA - do they affect the rate of antibiotic prescription?

Orthopaedics (Starship):

Matthew Boyle - Comparison of complication rates in treatment of severe SCFE - Modified Dunn osteotomy vs in situ pinning

Kong Koh Chuan - Comparing infection rate between proud and buried K-wire fixation for paediatric distal humerus supracondylar fractures

Haemish Crawford - Comparison of femoral neck growth after in situ pinning of slipped capital femoral epiphyses with partially threaded screws and fully threaded screws

John Ferguson - Clinical efficacy of bone dust harvested at the time of orthopaedic spinal surgery

Andrew Irving - The effect of wrist arthrodesis on quality of life in patients with Cerebral Palsy

Jenna Salmons - A feasibility assessment of a study protocol measuring the H reflex and muscle strength in children with spastic diplegic cerebral palsy following Chiropractic spinal manipulation

Otis Shirley - Magnetically controlled growing rods in early onset scoliosis

Susan Stott - Pedobarography in pre-operative assessment in children with foot and ankle deformities secondary to cerebral palsy and other paediatric neuromuscular conditions

Nichola Wilson - Comparison of management of paediatric medial epicondyle fractures in Auckland to a multicentre audit in the UK

Paediatrics:

Donna Cormack - Transforming research into child health equity: a 21st Century approach

Phillipa Walker - Time from referral to diagnosis of ASD - audit

Paediatric Intensive Care Unit:

Anusha Ganeshalingham - Influence of late term (39-40 weeks) gestational age on outcomes in neonates admitted to paediatric intensive care units in Australia and New Zealand

Anusha Ganeshalingham - Prevalence, severity and outcomes of severe infections in critically ill children in Australia and New Zealand in the Era of Sepsis-3 : An Observational Study of the Australian and New Zealand Paediatric Intensive Care Registry

Anusha Ganeshalingham - The importance of mean arterial blood pressure in the development of brain injury during cardiopulmonary bypass surgery

Anusha Ganeshalingham - Testing the Accuracy of a Malignant Pertussis Prediction Model

Jacqueline Hannam - An audit and simulation study of current compliance with antibiotic dosing protocols at Starship Children's Hospital

Pain Service

Gwyn Lewis - *Who is attending our chronic pain clinics?*

Palliative Care (Adult):

Aileen Collier - *Exploring motivations for, and experiences of, Advance Care Planning: a qualitative study*

Leslie Johny - *Measuring a Good Death: validation of a tool for retrospectively measuring quality of death*

Mandy Parris-Piper - *To explore the challenges faced by medical interpreters and clinicians working with interpreters in the palliative care settings within the Auckland region*

Physiology

Kevin Ellyett - *Incidence of flow limitation during exercise in healthy adolescent males and its association with perceived dyspnoea on exertion*

Hanna Fontinha - *Maternal physiological responses to position change during and after pregnancy*

Public Health:

Hilary McCluskey - *Enhancing collaboration to improve population and individual health outcomes: How do Primary Care and Public Health Practitioners, working with children, collaborate at practice level?*

Radiology (Adult):

Rohana Gillies - *Measuring the Trochlear Groove- Tibial Tubercle distance (TTTG): A simplified method*

Andrew Holden - *A 3:1 Randomized Trial Comparing the Boston Scientific RANGER™ Paclitaxel Coated Balloon vs Standard Balloon Angioplasty for the Treatment of Superficial Femoral Arteries (SFA) and Proximal Popliteal Arteries (PPA)*

Andrew Holden - *EMBO-FIH: Evaluation of a Shape Memory Polymer Foam Embolization Device – A Prospective Multi-center Safety Study*

Andrew Holden - *Iliac Branch Excluder ReGistry (IceBERG 2): Multi-centre, observational, post-market, real world registry to assess outcomes of patients treated with the Gore® EXCLUDER® ILIAC BRANCH endoprosthesis*

Andrew Holden - *Randomized Study of IN.PACT™ AV Access Paclitaxel-Coated Percutaneous Transluminal Angioplasty (PTA) Balloon vs. Standard PTA for the Treatment of Obstructive Lesions in the Native Arteriovenous Dialysis Fistulae (AVF) (IN.PACT™ AV Access Study)*

Andrew Holden - *Tack Optimized Balloon Angioplasty Study for the Below The Knee Arteries (TOBA II - BTK)*

Andrew Holden - *XPEDITE: Paclitaxel-coated Peripheral Stents used in the Treatment of Femoropopliteal Stenoses*

Jing Li Liu - *Intracranial Vertebral Aneurysm Dissection: Management and Outcomes*

Reablement Services:

Margaret Dudley - *Kaumatuatanga o Te Roro: A Maori approach to the diagnosis and management of dementia*

Melissa Evans - *Stroke interventions provided by community rehabilitation teams in Auckland*

Claire Grey - *Power of Push On? A review of wheelchair provision for Motor Neuron Disease (MND) clients within the Auckland DHB wheelchair service*

Sean Mathieson - *Modernisation of the ACC Non-Acute Rehabilitation service delivery: Case Mix*

Peter Sandiford - *A Randomised Controlled Trial of the effectiveness of the Reablement from Stroke Obtained via a Rehabilitation and Employment Service (RESTORES) Initiative*

Cathy Stinear - *Gait retraining in stroke rehabilitation: feasibility of the Re-Link Trainer in acute rehabilitation*

Claire Valentine - *A retrospective clinical audit of post-stroke mobility and gait retraining on Rangitoto Ward. Is this in line with best practice?*

Claire Valentine - *A retrospective clinical audit on the incidence and management of post stroke shoulder pain and shoulder subluxation on Rangitoto Ward. Is this in line with best practice?*

Renal Services (Adult):

Michael Collins - *A Phase 1, Open Label, Single Dose, Parallel Group Study to Evaluate the Pharmacokinetics, Safety and Tolerability of MEDI0382 in Subjects with Renal Impairment*

Michael Collins - *A Single-dose, Open-label, Parallel-group Study to Assess the Pharmacokinetics of Inclisiran in Subjects with Renal Impairment Compared to Subjects with Normal Renal Function (ORION-7)*

Michael Collins - *CL010-168 A Randomized, Double-Blind, Placebo-Controlled, Phase 3 Study to Evaluate the Safety and Efficacy of CCX168 (Avacopan) in Patients with Anti-Neutrophil Cytoplasmic Antibody (ANCA)-Associated Vasculitis Treated Concomitantly With Rituximab or Cyclophosphamide/Azathioprine*

Michael Collins - *The BEST-Fluids study: Better Evidence for Selecting Transplant Fluids*

Elizabeth Curry - *Retrospective analysis of the management of renal stone patients within the Auckland District Health Board*

Natasha Houghton - *Influenza A vaccination rates in the renal transplant population at Auckland City Hospital*

Helen Pilmore - *Distribution of referrals to ADHB Inpatient Renal Service: 2016*

Ashwin Rajan - *Rate of seroconversion after routine Hepatitis B vaccination in nonimmune Auckland DHB dialysis patients and rate of loss of immunity in previously immune patients*

David Semple - *Audit of Home Haemodialysis Patient Admission Rates at ADHB*

David Semple - *Patient mortality after cessation of home haemodialysis to centre Haemodialysis (technique failure)*

Tina Sun - Proposed review of the New Zealand experience with donation after circulatory death (DCD) kidney transplantation 2008 – 2016

Renal Services (Starship):

Jodi Bingley - Addressing disparities in Pediatric Kidney Transplantation: The New Zealand families' perspective

Respiratory Services (Adult):

William Good - Acute lung injury in lung transplantation and the role of generic tacrolimus - a New Zealand perspective

Dominica Horton - A review of access to physiotherapy for Maori and Pacific Island patients with respiratory failure secondary to end stage neuromuscular disease

Sandra Hotu - Pilot Study: Self-management (knowledge), and behaviour during acute exacerbations of chronic airways disease

John Kolbe - Lung Clearance Index: Validating measures of airway dysfunction

Mark O'Carroll - New and effective method for the treatment of cystic fibrosis using nanotechnology

Respiratory (Starship):

Cass Byrnes - LOTUS: long-term follow-up improves clinical care and respiratory outcomes for Indigenous children

Cass Byrnes - Young people's day to day life experience living with bronchiectasis. What matters most?

Rochelle Moss - How does the current transition process of youth with chronic lung disease to adult services impact on health outcomes?

Rheumatology (Adult):

Nicola Dalbeth - Denosumab In Addition To Intense Urate-Lowering Therapy For Bone Erosions In Gout: A Pilot Study

Nicola Dalbeth - Evaluating the health economic impact of ankylosing spondylitis in New Zealand

Alina Krasnoryadtseva - Making information about gout and its treatment more understandable to patients with gout

Trish Morpeth - Development of a patient-reported assessment measure for footwear experience in women with rheumatoid arthritis

Ravi Suppiah - A Randomized, Double-blind, Placebo- and Active-controlled, Multicenter, Phase 3 Study to Assess the Efficacy and Safety of Filgotinib Administered for 52 Weeks in Combination with Methotrexate

Surgery (Adult):

Ian Bissett - A prospective study of the incidence of and risk factors for development of Low Anterior Resection Syndrome in a New Zealand tertiary hospital setting

Ian Bissett - Auckland Rectopexy Mesh Audit (ARMA)

Ian Bissett - International multicentre cohort study for the validation of CLASSIC – Classification of Intraoperative Complications

Ian Bissett - In vivo characterisation of electrical activity in the human intestine using high-resolution electrical mapping

Ian Bissett - The role of health literacy in health outcomes and quality of life in diverticular disease

Hannah Collins - Routine liver biopsy in bariatric surgery: retrospective audit of safety and utility

Andrew Hill - Weight loss outcomes following publicly-funded bariatric surgery in New Zealand - A retrospective review of the years 2010-2014

Alexandra Jacobson - Magnetic tracer versus standard technique for sentinel node biopsy: application of Sentimag at Auckland City Hospital

Jun Lu - Investigation of changes in liver and pancreatic fat after bariatric surgery in relation to diabetes remission and ethnicity

Gregory O'Grady - High-resolution recordings of evoked trans-sacral sphincter potentials via magnetic stimulation

Sanjay Pandanaboyana - Spectroscopic assessment of the adequacy of pancreatic perfusion at transection margin before and after Whipples pancreatoduodenectomy: a prospective pilot study

Keith Petrie - The use of a visualisation intervention to improve exercise during recovery from colorectal cancer surgery. ERAS study

Tamasin Taylor - A qualitative exploration of factors affecting preoperative attrition in Pacific clients who are eligible for publicly funded bariatric surgery from the perspective of health professionals

Surgery (Starship):

Jenni Perrin - Appendicectomy in children under 3 years of age

Jenni Perrin - Bilateral Wilm's Tumour: comparison of treatments and outcomes

Jenni Perrin - 10 years of paediatric laparoscopic appendicectomy using hook diathermy

Heath Wilms - Value of basic investigations for partially treated appendicitis in paediatric patients

Te Puaruruhau

Patrick Kelly - Health professionals understanding of the Child Protection Alert system: an online survey

Trauma Service

Hannah Collins - Patient attitudes to trauma-related radiation exposure in a public hospital setting



Urology:

Andrew Wilson - Developing a Diagnostic and Prognostic Test for Prostate Cancer Using RNA Biomarkers

Vascular Service

Andrew Hill - A prospective, multi-centre, controlled clinical evaluation of the use of a bioresorbable drug eluting stent (Absorb, Abbott Vascular) in the arterial vasculature below the knee – ABSORB BTK Study

Andrew Hill - Investigation of Femoropopliteal In Situ Valve Formation with the InterVene System (INFINITE-OUS)



PUBLICATIONS

Abnoui, F., Sundaram, V., Yong, C.M., Prats, J., Deliargyris, E.N., Stone, G.W., Hamm, C.W., Steg, P.G., Gibson, C.M., White, H.D., Price, M.J., Génèreux, P., Desai, M., Yang, L., Ding, V.Y., Harrington, R.A., Bhatt, D.L., Mahaffey, K.W. (2017). Cangrelor reduces the risk of ischemic complications in patients with single-vessel and multi-vessel disease undergoing percutaneous coronary intervention: Insights from the CHAMPION PHOENIX trial. *American Heart Journal*, 188, pp. 147- 155.

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Having an excellent programme of research distinguishes great hospitals. Auckland District Health Board – Auckland DHB- is the largest tertiary care centre and the largest clinical research facility in New Zealand. Our research portfolio comprises over 1400 projects and our doctors, nurses, allied health professionals and scientists engage in research that attracts funding, participation and peer esteem both from New Zealand and internationally.

Auckland DHB's hospitals are teaching hospitals and ADHB partners with the University of Auckland in an Academic Health Alliance. Its goals, to deliver research-informed healthcare alongside clinical teaching and training, will fast-track translation of research findings from “bench to bedside”, and onwards to communities and families.

Auckland DHB provides a first-class setting for research across the health spectrum. We serve a diverse population (with rapidly expanding migrant population) of over 478,000 as the local provider, and over 1.3 million as regional provider of specialist health services. Acute services are provided together under one roof so researchers can access participants under the care of skilled multidisciplinary teams of specialists with specialist equipment. Auckland DHB's accredited laboratory facility, LabPlus, provides a range of on-site laboratory services for clinical research, including diagnostic and genetic analysis, storage, disposal and shipping to central laboratories worldwide.

Research at Auckland DHB pays for itself – over 100 staff and a multitude of medical and laboratory procedures for research are paid for from external sponsorship, both commercial and charitable. The A+ Trust provides robust management of research monies, and interest earned on Trust funds is fed back into the organisation as a contestable research grants programme worth half a million dollars annually.

Auckland DHB is committed to preserving our status as a centre of clinical excellence by fostering our involvement in research activity, critiquing health care approaches and investigating new initiatives. We celebrate our contribution to health through research with our annual Auckland DHB Research Excellence Award, Best Research Posters and now the best summer students' reports. Within the diversity, integral to all Auckland DHB research is a desire by our committed staff to build a strong evidence base for our clinical, community and policy work, and ultimately, the good health and well-being of our patients.

This was the Auckland DHB Annual Research Report for 2017.



Research

Annual Report 2017



Welcome *Haere Mai* | Respect *Manaaki* | Together *Tūhono* | Aim High *Angamua*

