



Auckland District Health Board

# Research

Annual Report 2016



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



**AUCKLAND**  
DISTRICT HEALTH BOARD  
*Te Toka Tumai*



## GROWING RESEARCH

Last year we were pleased to participate in shaping the new Health Research Strategy for New Zealand. The publication of that had earlier been prefaced by an announcement of substantial new investment in health research by the Minister of Health so we anticipate more opportunities to grow research in Auckland DHB. Our goal is to expand our research activities in healthcare delivery and health systems research whilst continuing to support biomedical and population health research in partnership with our many collaborators including the University of Auckland with whom we have a strategic alliance.

We continue to grow our internal research portfolio and in 2016 awarded the second of our Auckland Academic Health Alliance research grants. Research findings are already being published from the first round of studies reflecting the benefits of funding new research collaborations. We profile some of the successful applicants in this report.

One the advantages in working so closely with the university is that we can work together to support researchers. We have jointly established the Auckland Health Research Ethics Committee which will approve research proposals that fall below the threshold for Health and Disability Ethics Committee review. The university has a seat on our research governance committee and several clinical university employees sit on the research review committee. Our goal is to support more Auckland DHB staff to take up clinical research as ultimately our patients and families benefit.

I would like to thank all those who work tirelessly to ensure researchers can complete the administrative components of their research without hiccup – the staff in the research office, the research accountants and our legal counsel. I also acknowledge the support of the A+ Trust, Starship Foundation and Green Lane Research and Education Fund which provide funding for grants, summer students and research fellows. We acknowledge those who have donated or bequeathed funds for research. Our DHB is richer for their contributions.



**Dr Margaret Wilsher**

Chief Medical Officer and Head of Research, Auckland DHB



# TABLE OF CONTENTS

<b>MAKING A DIFFERENCE</b>	
Shorter Stays in the Emergency Department – the results are out!	8
A+ Trust Research Grant Outputs Report- A tale of seven years of funding	10
- A+ Trust Summer Student projects – The best of 2016	17
<b>COLLABORATION – THE AUCKLAND ACADEMIC HEALTH ALLIANCE</b>	19
Auckland's first clinical cancer trials research centre	20
First results from the AAHA Collaboration Grants funding	20
Busy ICU doctor is new Associate Professor	23
<b>FUNDING FOR RESEARCH</b>	24
A+ Trust Research Grants	25
Auckland Academic Health Alliance Collaboration Fund	26
Accident Compensation Commission	26
Auckland Medical Research Foundation	26
Australia and New Zealand Gynaecological Oncology Group	27
Australian and New Zealand College of Anaesthetists	27
Cure Kids	27
Genesis Oncology Trust	28
Goldman Sachs Foundation Cancer Fellowship	28
Green Lane Research and Education Fund	28
Health Research Council of New Zealand	29
- NEWSFLASH – New multimillion dollar clinical trial	30
Li Family Cancer Research Grant	29
National Heart Foundation	29
Royal Australasian College of Physicians	29
Starship Foundation Clinical Research Fund	31
Tamaki Redevelopment Company	32
University of Auckland	32
<b>CELEBRATING OUR PEOPLE</b>	33
Auckland DHB Research Excellence Award	34
Best Research Posters	35
Allied Health Scientific and Technical Awards	35
Auckland DHB Young Investigator Awards	36
Clarivate Analytics Highly Cited Researchers 2016	36
Perinatal Society of Australia and New Zealand Research Awards (PSANZ)	36
Sanitarium Innovator of the Year	37
Summer Students Awards	37
<b>NEW RESEARCH UNDERWAY</b>	38
<b>PUBLICATIONS</b>	48
HOT ARTICLE - Research links mental distress to significantly increased risk of death in heart patients	49
<b>DIRECTORY</b>	72



## 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 2016. During this period more than 300 new study protocols were reviewed, approved and initiated. Nearly every Auckland DHB service or department was involved with research.

### What's new?

The strategic refresh of the Health Research Council (HRC) in 2015 started a nationwide conversation about what central government could do to advance New Zealand's health research sector. Emerging from this, the principal vehicle proposed to achieve better connections between stakeholders and better priority setting was a **national health research strategy**. In 2016 the Ministries of Health and Business, Innovation and Employment, along with the HRC, conducted extensive consultation with over 500 stakeholder individuals via regional meetings and targeted focus groups, at which Auckland DHB was well represented. Auckland DHB also contributed one of the 166 written submissions which, according to the HRC had a major influence on the final strategy. The New Zealand Health Research Strategy 2017 – 2027 was released in June. It sets out the government's long-term goals for health research and the roles that DHBs will have in achieving these goals. Crucially, the strategy has sharpened the focus on the health system and the centrality of research to the quality of patients' outcomes and service delivery. One of four strategic priorities is to create a vibrant research environment in the health sector by strengthening health sector participation in research and innovation, the clinical research environment and health services research. As a leader in clinical research Auckland DHB is in a strong position to work with the ministries and contribute to the implementation of the strategy.

To find out more follow the link

<http://www.health.govt.nz/system/files/documents/publications/nz-health-research-strategy-jun17.pdf>



Auckland DHB's Research Strategy, established in 2016 is already reaping rewards. Starship Child Health specialist emergency physician Stuart Dalziel is leading a trial that recently received a \$4.99m from the Health Research Council to look at the possible association between childhood asthma and paracetamol. The trial is not only first of its kind in the world, it also embodies many of the key planks in Auckland DHB's research strategy - collaboration at national and international levels is being one of them. Stuart will lead the trial alongside a team from Auckland and Counties Manukau DHBs, the Medical Research Institute of New Zealand (Wellington), and the universities of Auckland, Otago and Calgary (Canada). The strategy is also focussed on delivering more grants; enabling research quality to grow and making it easier for researchers to navigate the system. Chief Medical Officer Margaret Wilsher is driving the strategy. Margaret says there are a host of extraordinary investigations underway. "Credit goes to our big research groups -- cardiology and oncology and the intensive care units, Critical Care Medicine and Cardiac and Vascular Intensive Care Unit. But there are also very active teams in interventional radiology, neurosciences, women's/newborn and the liver unit. Many of our clinicians in these groups are collaborating with colleagues locally and internationally and these relationships are not only fundamental to research growth but also to ensure that we can translate robust science into patient benefit. Fundamentally it's about doing better for patients, but it's also about lifting the profile of our researchers in the DHB and the university, and giving them more opportunities to present their proposals and their research outcomes."

In 2016, the HRC received the largest-ever increase for health research in New Zealand – \$97 million – and by 2020 that annual investment will increase to \$120 million.



## Highlights in this report

- ▶ This report features an evaluation of the the Auckland DHB Charitable Trust's (A+ Trust) investment in research via the annual A+ Trust Research Grant funding round. You'll be able to see the outputs emerging from the last seven years of funding and some snapshots about the value derived from grant investment, from big projects and small.
- ▶ Starship Foundation has a long history of promoting children's health research, from funding Starship's dedicated research advisor, Dr Peter Reed, to supporting promising individuals with research fellowships. In 2016, supported by the generosity of donors, the Foundation expanded its research programme by launching Starship's clinical research funding round, an annual competitive funding round of half a million dollars. To find out more about the seven projects supporting in the inaugural round go to page 31.

## What's on the radar?

After more than two years of consultation and planning the Auckland Health Research Ethics Committee (AHREC) is now due to convene for the first time in September 2017. The AHREC has been established under the auspices of the Auckland Academic Health Alliance (AAHA) between Auckland DHB and the University of Auckland, and is accredited to provide ethical review of research by the Health Research Council of New Zealand. AHREC will protect the ethical environment for clinical research by providing review for projects that fall outside the Health and Disability Ethics Committees' scope.

[Here are some of our outputs in 2016. Please read more and discover what Auckland DHB research is accomplishing.](#)

Number of active research projects in 2016	<b>1341</b>
New projects commencing in 2016	<b>313</b>
Published research articles in 2016	<b>505</b>
Successful research grant applications involving ADHB in 2016	<b>81</b>
Value of research grants involving ADHB in 2016	<b>&gt;\$18 million</b>



**Mary-Anne Woodnorth**

Auckland DHB Research Office



## MEET DR HELEN WIHONGI

Researchers at Auckland DHB, and hundreds more from other DHBs and tertiary institutions in Auckland and nationwide, have had their project plans reviewed for responsiveness to Māori through He Kamaka Waiora Research Services. For over four years Dr Helen Wihongi has provided critical review, consultation and leadership for Māori advancement through research, but how much do you know about our accomplished Dr Helen? It's time for a proper introduction...

Helen is a community psychologist. Her doctoral research focus was policy and the impact of policy on health populations, in particular Māori populations. Helen has a strong research and funding background. She sits on a number of clinical and research committees including the Auckland Regional Tissue Bank's governance and scientific groups, the Auckland DHB's clinical ethics advisory committee, the Cartwright working party, the AUT Māori research facilitation committee and the Precision Driven Health Independent Advisory group. Her research skills include kaupapa Māori theory and practice, and quantitative and qualitative research methodologies.

Helen started working at the Waitemata and Auckland District Health Board in 2013. One of her tasks was to establish a Māori review process across the Waitemata and Auckland interface. With the help of the Chief Advisor Tikanga, the Māori Health Gains team and the He Kamaka Waiora provider team this was completed in 2013. Since then the review process was standardised for use across the 20 other DHBs. While some DHBs are choosing to continue to use their own processes the standardised form provides opportunities to utilise the form for national studies. Helen also facilitated discussions across the University of Auckland and the Waitemata and Auckland DHBs regarding the formalisation of biobanking. One of the outcomes has been the establishment of the Auckland Regional Tissue Bank. Karanga is a research area of interest for Helen. She is working on a research project led by the Chief Advisor Tikanga exploring the health benefits of karanga for kaikaranga.

In the next two years Helen will be leading the establishment of a Māori Health Research Institute across the Waitemata and Auckland District Health Boards. With the establishment of the National Health Research Strategy this will better position the Waitemata and Auckland District Health Boards to lead research opportunities that focus on the Waitemata and Auckland District Health Boards Māori health priorities, grow new matauranga Māori, form national and international indigenous research relationships, and work collaboratively with other research institutes to achieve Māori health gain.



A portrait of Dr. Helen Wihongi, an older woman with short, layered grey hair and bangs. She has a gentle smile and is looking directly at the camera. She is wearing a black sleeveless top and a necklace with a large, green, spiral-shaped pendant. The background is a solid, light blue-grey color.

MEET DR HELEN WIHONGI

**Research advisor - Māori:**  
*Dr Helen Wihongi (Ngati Porou, Ngapuh  
Te whānau a Apanui, Ngati Hine)  
BASocSci, BASocSci (Hons), MPhil,  
PhD, PGDipPsych(Com).*



## MAKING A DIFFERENCE

### Shorter Stays in the Emergency Department – the results are out!

The main goal of the national 6-hour time target for Emergency Departments (ED) was to reduce poor patient outcomes due to overcrowding. In 2009, when the health target for shorter stays in ED was first introduced, only 70% of ED patients were admitted, transferred or discharged within 6 hours. By 2013 the emergency departments were consistently achieving the 95% target. Our patients would have spent 150,000 more hours (equivalent to 17 years) in ED each year if the average patient's stay was still as long as it was in 2009. A hospital-wide approach with every ward participating in some sort of improvement activity to meet the target has been highly successful. Tens of thousands of bed days have been saved at Auckland City Hospital and this has increased our capacity to admit acutely unwell patients.

But Director of Emergency Medicine Research, Dr Peter Jones, was sceptical at first. He was aware of UK NHS Trusts "gaming" to achieve their stricter 4-hour target, by inappropriately transferring patients to make it look like the target had been met. Dr Jones decided to study the effects of the implementation of the 6-hour target on key indicators of hospital care quality. He teamed up with researchers from the University of Auckland, and in 2010 the team won a \$1.1 million Health Research Council (HRC) "Research for New Zealand Health Delivery" project grant, one of the very first the HRC awarded.

The investigation team examined various quality indicators in 18 of New Zealand's 20 district health boards (DHBs) over a period of seven years (2006–2012), before, and after the target was introduced.

Six years later and after analysing millions of ED presentations the team have the answers to their questions and have published their results. As well as confirming that the shorter stays initiative has dramatically reduced time in ED and time to admission to a ward, the study has produced a striking finding about the positive effects of the target on crowding and patient mortality.

*"Only when DHBs respond to targets by making improvements to patient care processes do they achieve the goal of improved patient care. It's not about the target, it's about how we respond to it."*

*Dr Peter Jones*



*"We found that the introduction of the six-hour 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. This result mirrors the 50 per cent reduction in emergency department crowding,"*

*says Dr Jones.*





*“There was also no increase in deaths on the wards, so there was no evidence that the observed reduction was due to ‘shifting’ deaths to elsewhere in the system.”*

The researchers also found that after the target was introduced, fewer patients left the emergency department before completing their care and that admission rates did not change substantially. There was no reduction in the quality of information provided in patients’ discharge summaries after the target was implemented.

Having abandoned his stance as a skeptic, Dr Jones now considers himself a full convert to shorter stays. However, he recommends taking a balanced view as the study revealed some areas of concern and further investigation will be needed.

*“We looked at the number of patients readmitted to hospital 30 days after being discharged and found that this figure had increased by about 1 per cent, which is a plausible unintended consequence of reducing the amount of time people spend in hospital,”*

says Dr Jones.

According to Dr Jones, his greatest learning from leading this major project was about the importance of taking a system-wide approach. “Only when DHBs respond to targets by making improvements to patient care processes do they achieve the goal of improved patient care. It’s not about the target, it’s about how we respond to it.”

HRC Chief Executive Professor Kath McPherson says this comprehensive study will directly inform future health policy in the area of emergency medicine.

*“This study has important implications for the way future health targets are implemented by helping identify which DHB management practices lead to success in meeting the target, and more importantly, which improve quality of care for patients,”*

says Professor McPherson.

*(Article prepared with assistance from the Health Research Council of New Zealand)*



# A+ Trust

## Grant Outputs Report

---

### A tale of seven years of funding

---

The Auckland District Health Board Charitable Trust, commonly known as the A+ Trust, was established in 1995 and is the official fundraising arm for adult services at the Auckland DHB. The Trust also acts as the banker for external income for research, allowing effective separation of research monies from central funding for operational services. The interest earned from monies held by the Trust allows it to be a major funder for research at Auckland DHB. There are three A+ Trust research investment rounds annually, project grants, summer student stipends and AAHA collaboration grants (with the University of Auckland's faculty of Medical and Health Sciences). This report conducted in 2017 covers the most recent seven years (2010 – 2016) of the Trust's investment.





**Applications funded:** 158-123 project or small project grants, 26 summer studentships and nine AAHA Collaboration grants. Note that these numbers apply to applications where the research commenced and funding drawn down. Not included are applications funded but then withdrawn.

**Total funding allocated:** \$3,291,104 (as above, this total does not include funding allocated to projects that were subsequently withdrawn).

**Projects completed:** 78(49%). Most project applications are allocated funding for two years and this report shows that a substantial proportion of projects could not be completed within this strict time frame. However, by the time this analysis was performed, all of the 2010 grant projects were complete and final reports submitted. Of the 2011 grants 19 of 22 had been completed. It's worth noting that one of the incomplete 2011 projects obtained substantial external funding subsequent to the pilot project funded from the Trust and has been scaled up to a definitive study, the results of which will be available in 2018. The statistics are therefore showing good evidence that the research teams that are allocated funding are able to complete their study objectives, although not always within the expected term of the grant according to the application. This result should perhaps be of no surprise when it is considered that the Research Office is asked to make cost-neutral extension requests for approximately 50% of Auckland DHB's Health Research Council-funded grants. Anecdotally, clinical research is more likely to be affected by slow start up and other delays than biomedical research, largely due to the necessity for robust protections for study participants.

**Publication:** Grants funded from 2010 to 2016 have so far produced 49 articles in peer reviewed journals. The majority of these outputs have come from the older, complete project and small project grants, but some of the summer studentship grants have also resulted in publications. The completed projects that did not result in a journal publication usually produced another high-level output such as a post-graduate degree. Some of the ongoing projects have published their protocols. We noted a trend of a peak in publications two years after funding was allocated, consistent with the normal term of the grant, and then a second peak four years later. Although any interpretation of this trend should be regarded with caution, it's possible that six years reflects the extreme end of the natural life-cycle for clinical research projects sized for suitability for A+ Trust funding, for example, single-centre studies, observational studies, pilot or proof of concept studies. When the funding was for the addition of Auckland DHB as a site for a large, multi-center study, there was a trend towards greater likelihood of publication. It's worth noting that this analysis may have underestimated the number of publication outputs. Publications were either reported directly to the

Research Office by the research teams, were identified from acknowledgement to the Trust in the articles themselves, or were identified by matching the team, rationale, objectives and methodology in the article with the application for funding. Despite best efforts some publications may have been overlooked.

**Other outputs:** There were 13 published abstracts, 13 oral presentations, 9 poster presentations, 3 higher degrees, 4 awards and 2 guidelines originating from A+ Trust funded research projects during the seven years. At least three of the funded studies have provided feasibility data or proof of concept that has enabled successful applications to external funding bodies such as Health Research Council (HRC). The project grant awarded to Anaesthesia and Perioperative Medicine's Dr Tim Short in 2010 generated the pilot data he needed to inform his successful \$1.2M HRC application in 2012 for his definitive, international study on depth of anaesthesia and post-operative mortality. Overall, more than 90% of the completed projects achieved at least one notable outcome. The outputs case studies featured in this report were for research either part- or fully funded from the A+ Trust.

### Output Case Study:

Results presented at 2017 European Society of Human Reproduction and Embryology Annual Meeting in Geneva - The intraUterine Insemination (TUI) study.



Professor Cindy Farquhar

*Professor Cindy Farquhar (National Women's Health and Fertility Plus) and team were awarded \$25,000 for a 2013 A+ Trust project grant. The research discovered that five days of treatment with clomiphene, a medication for infertility in women who don't ovulate, followed by direct insertion of sperm into the uterus, was three times more effective for relatively infertile couples than trying to conceive naturally. Professor Farquhar credits the results to the medication giving couples a helping hand by encouraging more eggs to be released, and timing conception right by getting sperm into the uterus and thus halfway to the egg before releasing them. The study has demonstrated potential benefit of clomiphene plus intrauterine insemination as an effective, less invasive and inexpensive alternative to in vitro fertilisation.*



## Published articles

Ameratunga, R., Woon, S-T, Gillis, D., Koopmans, W., Steele, R. (2013) New diagnostic criteria for common variable immune deficiency (CVID), which may assist with decisions to treat with intravenous or subcutaneous immunoglobulin. *Clinical and Experimental Immunology*, 174 (2), 203-211

Austin, D.M., Sadler, L., McLintock, C., McArthur, C., Masson, V., Farquhar, C., Rhodes, S. (2013) Early detection of severe maternal morbidity: A retrospective assessment of the role of an Early Warning Score System. *Australian and New Zealand Journal of Obstetrics and Gynaecology*, DOI: 10.1111/ajog.12160

Franz E Babl, Mark D Lyttle, Silvia Bressan, Meredith Borland, Natalie Phillips, Amit Kochar, Stuart R Dalziel, Sarah Dalton, John A Cheek, Jeremy Furyk, Yuri Gilhotra, Jocelyn Neutze, Brenton Ward, Susan Donath, Kim Jachno, Louise Crowe, Amanda Williams, Ed Oakley, On behalf of the PREDICT research network (2014) A prospective observational study to assess the diagnostic accuracy of clinical decision rules for children presenting to emergency departments after head injuries (protocol): the Australasian Paediatric Head Injury Rules Study (APHIRST). *BMC Pediatrics*, 14 (148)

Franz E Babl, Meredith L Borland, Natalie Phillips, Amit Kochar, Sarah Dalton, Mary McCaskill, John A Cheek, Yuri Gilhotra, Jeremy Furyk, Jocelyn Neutze, Mark D Lyttle, Silvia Bressan, Susan Donath, Charlotte Molesworth, Kim Jachno, Brenton Ward, Amanda Williams, Amy Baylis, Louise Crowe, Ed Oakley, Stuart R Dalziel, for the Paediatric Research in Emergency Departments International Collaborative (PREDICT) (2017) Accuracy of PECARN, CATCH, and CHALICE head injury decision rules in children: a prospective cohort study. *The Lancet*, [http://dx.doi.org/10.1016/S0140-6736\(17\)30555-X](http://dx.doi.org/10.1016/S0140-6736(17)30555-X)

Benatar, J., McKibben, P., Stewart, R.A.H. (2012) Improving the informed consent process—a booklet on participants' rights in medical research. *NZMJ*, Vol 125 No 1362; ISSN 1175 8716

Benatar, J., Mortimer, J., Stretton, M., Stewart, R.A.H. (2012) A booklet on participants' rights to improve consent for clinical research – a randomised trial. *PLoS ONE* 7 (10) e47023

Bergin, P. for the EpiNet study investigators. (2012) An international pilot study of an internet-based platform to facilitate clinical research in epilepsy: The EpiNet project. *Epilepsia*, 53 (10) 1829–1835

Best, E.J., Walls, T., Souter, M., Neef, M., Anderson, T., Salkeld, L., Ahmad, Z., Mahadevan, M., Walker, C., Murdoch, D., Mills, N. (2016) Pneumococcal vaccine impact on otitis media microbiology: A New Zealand cohort study before and after the introduction of PHiD-CV10 vaccine. *Vaccine*, 34, 3840-3847

Blincoe, A., Byrnes, C., Sinclair, J., Brothers, S. (2015) Do defects in the innate immune system contribute to non-cystic fibrosis bronchiectasis in Maori and Pacific Island children. *Internal Medicine Journal*, 45, 21

Bloch, H.S., Wolley, M., Sidhu, K., Stewart, R., Pilmore, H. (2014) Prognostic value and long-term variation of high sensitivity troponin T in clinically stable haemodialysis patients. *NZMJ*, 12;127 (1402) 97-109.

Bloomfield, F.H., Crowther, C.A., Harding, J.E., Conlan, C.A., Jiang, Y., Cormack, B.E. (2015) The ProVIDe Study: the impact of protein intravenous nutrition on development in extremely low birthweight babies. *BMC Pediatrics* 15 (1) 100

Carr, A., Doyle, A.J., Dalbeth, N., Aati, O., McQueen, F.M. (2016) Dual-energy CT of urate deposits in costal cartilage and intervertebral disks of patients with tophaceous gout and age-matched controls. *American Journal of Roentgenology*, 206, 1-5

Chakraborty, M., Hickey, A.J., Petrov, M.S., Macdonald, J.R., Thompson, N., Newby, L., Sim, D., Windsor, J.A., Phillips, A.R. (2016) Mitochondrial dysfunction in peripheral blood mononuclear cells in early experimental and clinical acute pancreatitis. *Pancreatology*, 16 (5) 739-747

Cheung, G., Edwards, S., Sundram, F. (2016) Death wishes among older people assessed for home support and long-term aged residential care. *International Journal of Geriatric Psychiatry*, doi: 10.1002/gps.4624.

Cloete, E., Gentles, T., Alswiler, J., Dixon, L., Webster, D., Rowe, D., Bloomfield, F. (2017) Should New Zealand introduce nationwide pulse oximetry screening for the detection of critical congenital heart disease in newborn infants? *New Zealand Medical Journal*, 130 (1448) 64-69

Cormack, B.E., Bloomfield, F.H. (2015) Early nutrition for preterm babies: small changes can make a big difference. *Nutrition Today*, 50 (5) 230-239

Crooks, C., Ameratunga, R., Brewerton, M., Torok, M., Buetow, S., Brothers, S., Wall, C., Jorgenson, P. (2010) Adverse reactions to food in New Zealand children aged 0–5 years. *NZMJ Vol 123 No 1327*; ISSN 1175 8716

Fanning, N., Galvin, S., Parke, R., Gilroy, J., Bellomo, R., McGuinness, S. (2016) A Prospective Study of the Timing and Accuracy of Neutrophil Gelatinase-Associated Lipocalin Levels in Predicting Acute Kidney Injury in High-Risk Cardiac Surgery Patients. *Journal of Cardiothoracic and Vascular Anesthesia*, 30 (1) 76-81

Gattas, D.J., Rajbhandari, D., Bradford, C., Buhr, H., Lo, S., Bellomo, R. (2015) A Randomized Controlled Trial of Regional Citrate Versus Regional Heparin Anticoagulation for Continuous Renal Replacement Therapy in Critically Ill Adults. *Critical Care Medicine*, 43 (8) 1622-1629

Grant, C.C., Crane, J., Mitchell, E.A., Sinclair, J., Stewart, A., Milne, T., Knight, J., Gilchrist, C., Camargo, C.A Jr. (2016) Vitamin D supplementation during pregnancy and infancy reduces aeroallergen sensitization: a randomized controlled trial. *Allergy*, 71 (9) 1325-1334



Gudex, T., White, J., Madenholt-Titley, S., McAleer, M., Savage, S., Ruygrok, P. (2015) Total ambulatory management of patients undergoing coronary angiography and intervention: a pilot study. *New Zealand Medical Journal*, 128 (1409) pp. 78-81

Hegarty, J.E., Harding, J.E., Gamble, G.D., Crowther, C.A., Edlin, R., Alswailer, J.M. (2016) Prophylactic Oral Dextrose Gel for Newborn Babies at Risk of Neonatal Hypoglycaemia: A Randomised Controlled Dose-Finding Trial (the Pre-hPOD Study). *PLOS Medicine* | DOI:10.1371/journal.pmed.1002155

Hong, J., Gilder, E., Blenkiron, C., Jiang, Y., Evannett, N.J., Petrov, M.S., Phillips, A.R.J., Windsor, J.A., Gillham, M. (2017) Nonocclusive mesenteric infarction after cardiac surgery: potential biomarkers. *Journal of Surgical Research*, 211, 21-29

Jones, P.G., Kamona, S., Doran, O., Sawtell, F., Wilsher, M (2016) Randomised controlled trial of humidified high-flow nasal oxygen for acute respiratory distress in the Emergency Department: The HOT-ER Study. *Respiratory Care*, 61 (3) 291-299

Karunasinghe, N., Lange, K., Han, D-Y., Goudie, M., Zhu, S., Wang, A.H., Bishop, K., Ferguson, L.R., Masters, J.G. (2013) Androgen pathway related gene variants and prostate cancer association in Auckland men. *Current Pharmacogenomics and Personalised Medicine*, 11, 22-30

Kelly, P., Hayman, R., Shekerdeman, L.S., Reed, P., Hope, A., Gunn, J., Coleman, L., Beca, J. (2014) Subdural haemorrhage and hypoxia in infants with congenital heart disease. *Pediatrics*, 134 (3) doi:10.1542/peds.2013-3903

Koopmans, W., Woon, S-T., Zeng, I.S.L., Jordan, A., Brothers, S., Browett, P., Ameratunga, A. (2013) Variability of Memory B cell markers in a cohort of Common Variable Immune Deficiency patients over 6 months. *Scandinavian Journal of Immunology*, 77 (6) 470-475

Kruger, C., Sidebotham, D., Brown, A.J., Singh, H., Merry, A.F. (2012) Timely Bolus Insulin for Glucose Control during Cardio-pulmonary Bypass. *J Extra Corpor Technol*. 44 (1) 2012 MarPMC4557437

Lee, C., Vather, R., O'Callaghan, A., Robinson, J., McLeod, B., Findlay, M., Bissett, I (2013) Validation of the phase II feasibility study in a palliative care setting: gastrografen in malignant bowel obstruction. *American Journal of Hospice and Palliative Care*, 30 (8) 752-758

Lensen, S., Martins, W., Nastri, C., Sadler, L., Farquhar, C. (2016) Pipelle for Pregnancy (PIP): study protocols for three randomised controlled trials. *Trials*, doi: 10.1186/s13063-016-1301-9

Lowe, M., Handy, R., Ingram, J., Nisbet, M., Ritchie, S., Thomas, M., Briggs, S. (2016) Increased uptake of cervical screening by women with HIV infection in Auckland regardless of ethnicity, requirement for an interpreter or level of education. *NZMJ*, 129 (1438) ISSN 1175-8716

McGuinness, S.P., Parke, R.L., Bellomo, R., Van Haren, F.M.P., Bailey, M. (2013) Sodium Bicarbonate Infusion to Reduce Cardiac Surgery-Associated Acute Kidney Injury: A Phase II Multicenter Double-Blind Randomized Controlled Trial. *Critical Care Medicine*. 41 (7) 1599-1607

Naea, N., Dobson, A., Leversha, Williams, S., Knott, K., Clayton-Bray, L., Dickinson, A. (2016) Awareness and understanding of rheumatic fever among Pacific people in Auckland Neonatal, Paediatric & Child Health Nursing, 19 (1) 7-12

Neeff, M., Biswas, K., Hoggard, M., Taylor, M.W., Douglas, R (2016) Molecular microbiological profile of chronic suppurative otitis media. *Journal of Clinical Microbiology*, doi: 10.1128/JCM.01068-16

Parke, R.L., Eastwood, G.M., McGuinness, S.P. on behalf of the George Institute for Global Health and the Australian and New Zealand Intensive Care Society Clinical Trials Group (2013) Oxygen therapy in non-intubated adult intensive care patients: a point prevalence study. *Critical Care and Resuscitation*, 15 (4) 287-293

Petrie, K.J., Faasse, K., Thomas, M.G. (2016) Public Perceptions and Knowledge of the Ebola Virus, Willingness to Vaccinate, and Likely Behavioral Responses to an Outbreak. *Disaster Medicine and Public Health Preparedness*, DOI: 10.1017/dmp.2016.67

## Output Case Study:

### The EPPI Trial: Enoxaparin for the prevention of pre-eclampsia and interuterine growth restriction.

Article in *American Journal of Obstetrics and Gynecology*, 2017. Drs Katie Groom, Claire McClintock, Peter Stone, Lesley McCowan and team (National Women's Health) led an international multicentre open-label randomised, controlled trial involving 160 pregnant women with an increased risk of preeclampsia and/or intra-uterine growth restriction based on their past obstetric history. The aim was to assess whether the use of a low molecular weight heparin, enoxaparin, is effective in reducing the risk of preeclampsia or intrauterine growth restriction occurring in women who had developed one or both of these conditions in a previous pregnancy when compared to standard high-risk care alone. The results of the EPPI trial showed that the addition of enoxaparin had no effect on the rate of preeclampsia and/or small-for-gestational-age (SGA) birthweight. The EPPI trial results were ranked 5th of 2115 submissions to the Society for Maternal-Fetal Medicine's 37th Annual Meeting and results were presented by Dr Groom in the opening plenary session of the meeting on 26th January 2017.





Prentice, L., Stewart, A., Mohuiddin, S., Johnson, N.P. (2012) What is endosalpingiosis? Fertility and Sterility, 98 (4) dx.doi.org/10.1016/j.fertnstert.2012.06.039

Rehder, K.J., Giuliano, J.S. Jr, Napolitano, N., Turner, D.A., Nuthall, G., Nadkarni, V.M., Nishisaki, A; National Emergency Airway Registry for Children and Pediatric Acute Lung Injury and Sepsis Investigators (2015) Increased Occurrence of Tracheal Intubation-Associated Events During Nights and Weekends in the PICU. Critical Care Medicine, 43 (12) 2668-2674

Riley, J., Hunt, A., McDouall, A., Waqanivavalagi, s., Braithwaite, I., Weatherall, M., Stanley, T., Beasley, R., Mitchell, E.A., Dalziel, S.R. (2016) Pilot study of feasibility of a randomised controlled trial of asthma risk with paracetamol versus ibuprofen use in infancy. NZMJ, 129 (1443) 30-42

Roxburgh, R.H., Marquis-Nicholson, R., Hutchinson, D.O., Waddell, L.B., Clarke, N.F., North, K.N., Love, D.R. (2012) G.P.46 Screening for deletion and duplication mutations in genes implicated in LGMD. Neuromuscular Disorders, 22, (9,10) 833

Ryan, K.J., Segedin Casas, J.M., Mash, L.E., McLellan, S.L., Lloyd, L., Stinear, J.W., Plank, L.D., Collins, M.G. (2014) The effect of intensive nutrition interventions on weight gain after kidney transplantation: protocol of a randomised controlled trial. BMC Nephrology, 15 (148) DOI: 10.1186/1471-2369-15-148

Sadler, L.C., Austin, D.M., Masson, V.L., McArthur, C.J., McLintock, C., Rhodes, S.P., Farquhar, C.M. (2013) Review of contributory factors in maternity admissions to intensive care at a New Zealand tertiary hospital. American Journal of Obstetrics and Gynecology, 209;549.e1-7.

Short, T., Leslie, K., Campbell, D., Chan, M., Corcoran, T., O'Loughlin, E., Frampton, C., Myles, P. (2014) A Pilot Study for a Prospective, Randomized, Double-Blind Trial of the Influence of Anesthetic Depth on Long-Term Outcome. Anesthesia and Analgesia, 118 (5), 981-986

The ARISE Investigators and the ANZICS Clinical Trials Group (2014) Goal-Directed Resuscitation for Patients with Early Septic Shock. New England Journal of Medicine, 371, 1496-1506

Vesty, A., Biswas, K., Taylor, M.W., Gear, K., Douglas, R.G. (2017) Evaluating the impact of DNA extraction method on the representation of human oral bacterial and fungal communities. PLoS ONE, 12 (1) e0169877. doi:10.1371/journal.pone.0169877

Wang, A.Y. et al and for the POST-RENAL Study Investigators and the ANZICS Clinical Trials Group (2015) Health-related quality of life in survivors of acute kidney injury: The Prolonged Outcomes Study of the Randomized Evaluation of Normal versus Augmented Level Replacement Therapy study outcomes. Nephrology, 20 (7), 492-498

Wolley, M., Stewart, R., Curry, E., Davidson, J., White, H., Pilmore, H. (2013) Variation in and prognostic importance of troponin T measured using a high-sensitivity assay in clinically stable haemodialysis patients. Clinical Kidney Journal, 6 (4), 402-409

## Results case study :

C. C. Grant, J. Crane, E. A. Mitchell, J. Sinclair, A. Stewart, T. Milne, J. Knight, C. Gilchrist and C. A. Camargo Jr (2016) Vitamin D supplementation during pregnancy and infancy reduces aeroallergen sensitization: a randomized controlled trial. Allergy, 71 (9) pp.1325–1334.

*Professor Cameron Grant (Starship General Paediatrics) and team have shown that vitamin D supplements prevent allergy sensitisation to house dust mites in children. Vitamin D deficiency is prevalent with 57% of NZ newborns having low vitamin D. Both asthma and allergies are highly prevalent in NZ with 25% of 6 to 7-year olds reported with asthma and 35% of 11 to 12 year olds having an allergic response to common allergens.*

*"In our clinical trial of vitamin D supplementation during pregnancy and infancy, we showed that when these supplements were started in the mum at 27 weeks gestation and then continued in her child until the child was six months old, they prevented sensitisation of the child to house dust mites (measured when the child was 18 months old)," says Professor Grant. "Based upon a careful review of the records of the children's visits to their family doctor, we also saw that this vitamin D supplementation reduced the proportion of children making primary care visits which their family doctor thought were due to asthma," he says. "Diagnosing asthma at such a young age is a difficult thing to do so we have to take this family doctor visit data with a grain of salt and certainly could not say for sure that the study shows the vitamin D prevents asthma," says Professor Grant. "But it's the first study to show that correcting poor vitamin D status during pregnancy and infancy might prevent childhood asthma."*



## Articles submitted

Bishop, J., Reed, P., Austin, P., Hurst, M., Ameratunga, R., Craigie, A., McFarlane, J., Chin, S.E., Mouat, S.M., Evans, H.M. (2017) Prospective evaluation of the ESPGHAN guidelines for diagnosis of celiac disease in New Zealand children. Submitted to Journal of Pediatric Gastroenterology and Nutrition

Wise, M.R., Sadler, L., Shorten, B., Van der Westhuizen, K., Shorten, A. (2017) Positive choices of women in the Positive Birth after Cesarean clinic; randomized trial. Submitted to American Journal of Obstetrics and Gynecology



## Published Abstracts

Alnasrallah, B., Pilmore, H., Manley, P. (2016) Transplantation and Diabetes (TRANSDIAB): a pilot randomised controlled trial of metformin in pre-diabetes after kidney transplantation. 34th Annual Scientific meeting, The Transplant Society of Australia and New Zealand

Downen, F., Pilmore, H. (2016) Use of visual aids in promoting patient understanding of survival with treatments for end stage kidney disease. 34th Annual Scientific meeting, The Transplant Society of Australia and New Zealand

Farquhar, C., Liu, E., Armstrong, S., Arroll, N., Lensen, S., Brown, J. (2017) A randomized controlled trial of intrauterine insemination with clomiphene citrate stimulation compared with expectant management for women with unexplained infertility (The TUI study). Human Reproduction, 32 Suppl 1, O-010

Groom, K., McCowan, L.M.E., Mackay, L., Lee, A., Said, J., Kane, S., Walker, S., Van Mens, T., Hannan, N., Tong, S., Chamley, L., Stone, P., McLintock, C. (2017) The EPPI Trial- Enoxaparin for the prevention of preeclampsia and intrauterine growth restriction in women with a prior history: an open-label international multicentre randomised controlled trial. Journal of Paediatrics and Child Health, 53, S2 Abstracts of the 21st Annual Congress of the Perinatal Society of Australia and New Zealand (PSANZ), 2–5 April 2017, Canberra

Kent, M., Ruygrok, P., Sidhu, K., Stewart, J., Nair, A., Ellis, C., Webster, M. (2016) Time to Reperfusion in Patients with ST Elevation Myocardial Infarction Presenting via Different and Distinct Logistic Pathways. Heart, Lung and Circulation, Volume 25, Supplement 1, S1-S40

Lee, J.H., Nuthall, G., Ikeyama, T., Saito, O., Mok, Y.H., Nadkarni, V.M., Nishisaki, A. (2015) An international national emergency airway registry for children: Comparison of tracheal intubation practices across international PICUs. Journal of Critical Care, 30 (4) 854

Orr, D., Myint, H., Murphy, R. (2016) Probiotic supplementation after Very Low Calorie Diet does not aid improvement of the metabolic syndrome or maintenance of weight loss post Liver Transplant. A randomised double-blind placebo controlled trial. The AASLD Liver Meeting, Boston. Hepatology, 64 (1 Suppl)

Parker, M., Nuthall, G., Brown, C., Biagis, K., Simon, D., Napolitano, N., Nadkarni, V., Nishisaki, A. (2015) Impact of adverse tracheal intubation associated events on PICU outcomes. Critical Care Medicine, 43(12) Supplement 1, December 2015, p 198

Patten, C. (2016) The ERUPT Study - Evaluating the Rate of Undiagnosed Type 2 Diabetes in Patients (Erupt) Referred for Coronary Angiograms. Heart, Lung and Circulation, Volume 25, Supplement 1, S1-S40

Patterson, N., Bach, K.P., Huth, S., Phua, H., Bloomfield, F.H. (2016) Does bias gas flow affect the levels of proinflammatory cytokines in the blood and tracheal aspirates of ventilated preterm infants? Proceedings of the 20th Annual Conference of the Perinatal Society of Australia and New Zealand, Townsville, Australia

Robinson, E.R., Douglas, C., Gale, T.L., Twiss, J., McNamara, D.G. (2013) Non-invasive measurement of neural respiratory drive in children. Abstracts of the Thoracic Society of Australia & New Zealand and the Australian & New Zealand Society of Respiratory Science 2013 Annual Scientific Meetings, Darwin, NT. Respiriology, Volume 18, Issue Supplement S2, 1–92

Srikumar, G., Pilmore, H., Sidhu, K., Webster, W. (2015) Management of coronary artery disease in dialysis patients. Heart, Lung and Circulation, 24, Suppl. 2, p. S89

Tan, L., Taylor, E., Hannam, J.A., Salkeld, L., Salman, S., Anderson, B.J. (2016) Pharmacokinetics and analgesic effectiveness of intravenous parecoxib for tonsillectomy ± adenoidectomy. Paediatr Anaesth. 26 (12) 1126-1135.

Valley A, Hughes L, Wise M. (2016) Women's Satisfaction with a Primary Caesarean Section and Preference for Subsequent Births - An Early Postnatal Review of Attitudes. Abstract published in Austr NZ J Obstet Gynaecol 2016;56:62

## Guidelines

Auckland District Health Board Cellulitis Management Pathway

Simmonds, S. (2015) A framework for Māori review of research in District Health Boards

## Presentations

Cormack, B.E. (2014) Extremely low birthweight babies – how to get more protein in. Australasian Parenteral and Enteral Nutrition Society Annual Scientific Meeting, Auckland

Cormack, B.E. (2014) Protein and Preterm growth, Protein in Paediatrics. Nestle Nutrition Institute Regional Symposium, Adelaide

Farquhar, C., Liu, E., Armstrong, S., Arroll, N., Lensen, S., Brown, J. (2017) A randomized controlled trial of intrauterine insemination with clomiphene citrate stimulation compared with expectant management for women with unexplained infertility (The TUI study). European Society of Human Reproduction and Embryology Annual Meeting, Geneva

Grant, C.C., Crane, J., Mitchell, E.A., Sinclair, J., Stewart, A., Milne, T., Knight, J., Gilchrist, C., Camargo, C.A Jr. (2016) Vitamin D Supplementation During Pregnancy and Infancy Reduces Sensitisation to House Dust Mite: a Randomised Controlled Trial. European Academy of Paediatrics



Hegarty, J.E., Harding, J.E., Gamble, G.D., Crowther, C.A., Edlin, R., Alsweiler, J.M. (2015) Preventing neonatal hypoglycaemia with oral dextrose gel. A randomised controlled trial. 19th Annual Perinatal Society of Australia and New Zealand, Melbourne

Hegarty, J.E., Harding, J.E., Gamble, G.D., Crowther, C.A., Edlin, R., Alsweiler, J.M. (2015) Preventing neonatal hypoglycaemia with oral dextrose gel. A randomised controlled trial. World Congress of Perinatal Medicine, Madrid

Kalluru, K., Wilsher, M.L., Milne, D.M., Ng, K.P. (2013) Prevalence of autoantibodies in idiopathic inflammatory myopathy and/or interstitial pneumonia. World Association of Sarcoidosis and Other Granulomatous Disorders, Paris

Leung, M., Poppe, T., Tottman, A., Thompson, B., Black, J., Dai, S., Harding, J., Bloomfield, F., Alsweiler, J.M. Very Preterm Birth and its Effects on Visual Development at 7 Years of Age. Elite School of Optometry (ESO) International Vision Science & Optometry Conference, Tamalnadu, 2015

Poppe, T., Leung, M., Tottman, A., Harding, J.H., Bloomfield, F.H., Alsweiler, J.M., Thompson, B. fMRI Measures of the Dorsal Visual Cortex Correlates with Behavioral Performance and Cortical Thickness. International Society for Magnetic Resonance Imaging in Medicine (ISMRM), Toronto, 2015

Tottman, A.C., Alsweiler, J.M., Woudes, T.A., Thompson, B., Gamble, G., Bloomfield, F.H., Harding, J.E. Unrecognised neurodevelopmental and health problems in school aged children born very preterm. 20th Annual Perinatal Society of Australia and New Zealand, Townsville, 2016

Tottman, A.C., Alsweiler, J.M., Woudes, T.A., Thompson, B., Gamble, G., Bloomfield, F.H., Harding, J.E. Scarring in school-age children born very preterm. Perinatal Society of New Zealand, Dunedin, 2015

Williams, G., Sherring, C., Beca, J., Dalziel, S (2016) Starship paediatric early warning system: is it fit for purpose? PAEDIATRIC SOCIETY OF NEW ZEALAND 68TH ANNUAL SCIENTIFIC MEETING

Williams, L.Z.J., McNamara, D., Alsweiler, J.M. Intermittent hypoxaemia in infants born late preterm. 21st Annual Meeting of the Perinatal Society of Australia and New Zealand, Canberra 2017

## Posters

Bellissima, B., Garavan, F., Tingle, M (2016) Determination of post-mortem clozapine levels in coronial autopsy cases. ASCEPT NZ 2016, Queenstown

Blincoe, A., Byrnes, C., Sinclair, J., Lim, D., Brothers, S (2015) Do Defects in the Innate Immune System Contribute to Bronchiectasis in Maori and Pacific Island Children? Auckland DHB Research Poster Week – Best Medical Poster

Oliver, V., Cole, A., Gane. (2016) Auckland Central Liver Clinic (ACLC): a pilot-project. Auckland DHB Research Poster Week

Stewart, H.A., Tottman, A.C., Alsweiler, J.M., Bloomfield, F.H., Gamble, G., Thompson, B., Woudes, T.A., Harding, J.E. Left Hand Preference and Fine Motor Outcomes in School Aged Children Born Very Preterm. 20th Annual Perinatal Society of Australia and New Zealand, Townsville, 2016

Tottman, A.C., Alsweiler, J.M., Bloomfield, F.H., Gamble, G.D., Harding J.E. Glucose variability in hyperglycaemic preterm neonates. 17th Annual Perinatal Society of Australia and New Zealand. Adelaide. 2013

Valley A, Hughes L, Wise M. (2016) Women's Satisfaction with a Primary Caesarean Section and Preference for Subsequent Births- An Early Postnatal Review of Attitudes. Poster presented at RANZCOG Annual Scientific Meeting, Perth

Wilsher, M.L., Kalluru, R., Milne, D.M., Ng, K.P. (2013) Prevalence of autoantibodies in idiopathic inflammatory myopathy and/or interstitial pneumonia. World Association of Sarcoidosis and Other Granulomatous Disorders, Paris

Winbo, A. (2016) Pluripotent cells and LQTS: an update on research. Rhythm and Inherited Heart Diseases Symposium, September 2016, Auckland

Winbo, A. (2016) How to strike up a conversation with a living, beating heart cell. Green Lane Scientific Sessions, October 2016, Auckland

## Degrees

Jill Depledge (Allied Health, National Women's) MHSc, AUT

Epenesa Iosua (2017) Human papillomavirus in carcinomas of the nasopharynx, oral tongue and larynx

Wikki Koopmans (LabPlus), PhD, University of Auckland, 2012. Common Variable Immunodeficiency in New Zealand: finding the molecular and cellular foundations

Rachael Parke (CVICU) PhD, University of Auckland, 2014. High flow nasal oxygen therapy in patients after cardiac surgery

## Awards

Alana Ainsworth American Thoracic Society 2017 Public Advisory Roundtable (PAR) Abstract Scholarship

Jill Depledge (Allied Health, National Women's) 2016 Clinical Support Directorate Award for Research, Allied Health, Scientific and Technical Awards

Frances Downen (Renal Department) Finalist - Young Investigator Award 2015



## A+ TRUST SUMMER STUDENT PROJECTS - THE BEST OF 2016

Each year the A+ Trust awards funding to 10 or more Auckland DHB staff so that they can deploy health sciences students on research projects over the summer break. Each successful project leader is funded to a level of \$5500 to be paid as a stipend for the student. The Auckland Academic Health Alliance facilitates the linking up of researchers and eager students. Though the layout for these studentships is small and the duration of the projects short, the value of the new knowledge gained from these acorns of investment can be priceless. Dr Stuart Dalziel from Starship's Children's Emergency Department, who was awarded a \$5M Health Research Council programme grant this year, describes the recruitment feasibility work done by his summer student in 2014 as "absolutely vital" to the development of the successful programme bid.

### The studentship grants awarded in 2016 produced these notable outcomes.

#### Project 1)

**The question:** How many patients with cellulitis are unnecessarily admitted to Auckland City Hospital?

**The team:** Tim Cutfield, Steve Ritchie, Mark Thomas (Auckland DHB Infectious Diseases), Hannah Walter (Medical Student)

**The rationale:** Cellulitis is a common bacterial infection affecting the skin and subcutaneous tissue. Many patients are admitted to hospital for treatment, however experts concur that many patients are admitted unnecessarily for mild to moderate disease that could be treated at home. The main problem is that clinical guidelines don't clearly define which patients require hospitalisation. The recently published Dundee severity classification uses objective information to inform this decision and might be applicable to the New Zealand setting.

**The aims:** To describe Auckland DHB's population presenting with cellulitis and to assess the validity of the Dundee classification to this group with a

view to identify and measure the proportion of patients with mild disease that could have been managed in the community. At the commencement of this project Auckland DHB had no cellulitis management pathway and assessment of disease was largely subjective.

**The project:** A retrospective review of all cellulitis admissions over a two-year period at Auckland City Hospital using data from hospital electronic records. Cellulitis severity was derived using the Dundee classification. 1465 cases were reviewed, 48 were excluded for incomplete information. Validation of the data was achieved by co-review of 390 cases by an Infectious Disease physician and a random review of a further 195 cases.

**The outcomes:** The majority, 55% of the cases, had mild disease (no comorbidities and no signs of sepsis) and these cases should have been managed in the community with oral antibiotics – almost all of these cases were admitted to hospital for the sole reason of receipt of intravenous antibiotics. 19% of the cohort had an important risk factor for treatment failure but no signs of sepsis. These cases should have received narrow spectrum i.v. antibiotic therapy in the community, rather than in the hospital. Therefore, these data indicate that a whopping 74% of the cohort were unnecessarily treated in hospital. It is commonly stated that many cellulitis admissions are due to social circumstances that do not allow safe community treatment, however in Hannah's review of nearly 1500 patient records, this was rarely encountered.

**The impact:** These results strongly indicated that use of severity scoring would positively inform the clinical management of patients with cellulitis at Auckland DHB. The economic impact analysis conducted for this project demonstrated huge potential for cost-savings by using effective community management for low severity cellulitis cases. Informed by this studentship project, and the commitment of the clinical teams, Auckland DHB has developed and implemented a new Cellulitis Clinical Pathway.

#### Economic Impact:

*19% of those who had a Dundee score of 1 were discharged on the same day (per patient cost of \$944). Those with Dundee 1 who stayed the median length*



*of stay (3 days) had a mean per patient cost of \$3188. Intravenous antibiotics were a primary reason for admission for many class 1 cases, with 93% prescribed intravenous antibiotics. If all had been discharged on the same day for community management on oral antibiotics, as is recommended by the Dundee criteria, \$887,416 would have been saved per year. If class 2 cases had been discharged on the same day for community i.v. and management, a further \$601,671 would have been saved per year.*

**Hannah's project was judged the Most Excellent studentship report for 2016.**

## Project 2)

**The question:** Is exercise induced dyspnoea in non-asthmatic adolescent females caused by expiratory flow limitation?

**The team:** Kevin Ellyett, Brooke Cantley (Physiology Laboratory), Alaina McGoram (Summer Student)

**The rationale:** Exercise-induced dyspnoea (EID; shortness of breath, difficult or laboured breathing) is a common reason why adolescent females limit or avoid exercise. Exercise induced asthma is often diagnosed as the cause, with bronchodilator therapy recommended prior to exercise. But recent evidence suggests exercise induced asthma is over-diagnosed and alternative causes for dyspnoea overlooked. Expiratory flow limitation (EFL), when exhalation of air from the lungs ceases to increase with increasing expiratory effort, might be a reason underlying EID in adolescents. The prevalence of EFL diminishes with age and is likely to resolve with maturation. During this maturation period, non-asthmatic individuals may be incorrectly diagnosed with and treated for exercise induced asthma.

**The aims:** To identify what proportion, of otherwise healthy, adolescent females who experience moderate to severe EID demonstrate EFL. This is of particular importance to those in this age range who may be misdiagnosed with asthma and/or who are making choices that may influence their continued involvement in exertional activities, therefore altering their lifelong health and quality of life.

**The project:** After gaining informed consent and recording morphological data, pulmonary function was assessed including dynamic volumes, static volumes and gas exchange after which a cardiopulmonary exercise test was performed (including inspiratory loops). At the completion of the exercise test, spirometry was followed for 15 minutes to determine if any exercise induced bronchospasm has occurs.

**The results:** 50% of the cohort of adolescent females tested (between the ages of 12 and 18) were found to be expiratory flow limited- more common than the research team expected. However, maximal aerobic capacity was not significantly different between the flow-limited and the non-flow limited group suggesting that despite the presence of EFL, these adolescents, when encouraged, were able to ignore the sensation of "air hunger" during the later stages of exercise and were able to reach their maximum capacity.

**The outcomes:** 5 out of 24 of the participants were diagnosed with asthma and were being treated for this condition prior to taking part in the study. The results showed that no participants had any evidence of exercise-induced asthma, nor did they show any significant bronchodilator response post Salbutamol inhaler. This suggests that participants EID was not due to asthma. These results are particularly important when appreciating both the economic impact and psychological effects of taking medications throughout adolescence. One of the participants had been placed on a course of oral steroids to try and improve her symptoms of "exercise induced asthma".

**The impact:** The revelation that so many normal healthy active young women demonstrate respiratory limitation during exertion does require further investigation including extension to study males. Future research avenues include a larger cross-sectional study examining at what age this limitation is most prevalent and a longitudinal study to examine how the control of ventilation during exercise changes as the lung matures. The present study, and proposed future studies, will give health professionals and those involved in coaching young athletes better insight into how EID (a condition that in the past was ascribed to a form of pathology) can better be managed.

**Alaina's project was judged the runner up Most Excellent studentship report for 2016.**



The image features two hands, one from a darker-skinned person and one from a lighter-skinned person, clasped together in a supportive grip. A large, semi-transparent grey circle is centered over the hands. Within this circle, there is a complex, light-grey line-art pattern consisting of swirling, organic shapes. The word "COLLABORATIONS" is written in a clean, white, sans-serif font across the middle of the grey circle.

COLLABORATIONS



## COLLABORATION – AUCKLAND ACADEMIC HEALTH ALLIANCE



**The Auckland Academic Health Alliance (AAHA) formalises a research, teaching and clinical delivery relationship spanning almost five decades between the Auckland DHB and the University of Auckland.**

### Auckland's first clinical cancer trials research centre

New Zealand cancer patients will have greater access to new treatments through clinical trials, thanks to a major donation towards a new research unit which is the first step towards an Integrated Cancer Centre.

The Centre is an AAHA initiative between the University of Auckland's Faculty of Medical and Health Sciences and the Auckland DHB's Regional Cancer and Blood Service, involving oncology clinicians and researchers working at Auckland City Hospital. The anonymous \$1.4 million donation will establish New Zealand's first specialist cancer clinical trials research unit - an oncology Phase 1 Clinical Trials Research Unit.

The Director of the Cancer and Blood Service, Auckland oncologist, Dr Richard Sullivan says, "The Cancer and Blood Service and the University want to open a research unit with the specialist infrastructure and governance framework to be able to safely deliver 'First-in-Human' studies. Such a unit will be designed and run to the highest possible standards expected of accredited Phase 1 units elsewhere globally. This also provides an excellent framework on which to launch new research in the pursuit of the delivery of personalised medicine," says Dr Sullivan.

The three key platforms for the Integrated Cancer Centre are; a tumour tissue bank; a consolidated genomics research platform; and this purpose-built Cancer Phase 1 Clinical Trials Research Unit.

Cancer Phase 1 clinical studies include those that are for the first time giving a drug to a patient – so called First in Human studies. They involve the administration of small, but cautiously escalating doses of a drug in carefully monitored patients. Once its dose has been established as optimal the drug gets further tested in phase 2 and 3 studies in larger numbers of patients. Phase 1 studies require a higher level of expertise as well as more rigorous oversight and monitoring compared to later stage human trial research.

Patients in phase 1 and later phase studies will likely have their tumour and other samples collected and stored through the tissue bank facility and analysed using the genomics platform hence an integrated use of these resources.

### First results from the AAHA Collaboration Grants funding

**The first annual collaborations grants round was launched in 2015 with five research projects co-funded by the A+ Trust (Auckland DHB's charitable trust) and the University of Auckland's Faculty of Medical and Health Sciences (FMHS). Through these 'seed funding' grants, the AAHA aims to directly encourage and boost relationships between FMHS and Auckland DHB research staff, and to encourage researchers from both our organisations to further work together. The scheme is already bearing fruit and for this report we feature the scientific discoveries made from two of the 2015 grant projects.**



## Stability of EPOCH



The EPOCH regimen of chemotherapy (vincristine, doxorubicin and etoposide) is highly effective and well tolerated in patients with Non-Hodgkin Lymphoma. For patients at Auckland City Hospital's Haematology Ward, the current practice is to continuously infuse the drug combination over 4 days, during which the patient remains in hospital the entire time. The development of portable infusion devices allows chemotherapy to be administered continuously within the outpatient or home environment, and has great potential to improve blood cancer care in New Zealand by freeing up access for other patients needing a hospital bed. However, there is only limited stability data for chemotherapy drugs within these devices, preventing their wider application in ambulatory care models. One of the first **Auckland Academic Health Alliance Collaboration** fund teams set out to investigate whether EPOCH could remain chemically and physically stable in infusion bags and elastomeric infusion devices under storage and usage conditions.

**Aims:** Development of a stability database to support the transformation of select chemotherapy services from an inpatient to an outpatient or even home setting. The developed strategy can be extended to include other chemotherapeutic agents supporting a patient care model change in New Zealand.

**The team:** Auckland DHB – Ian Costello (Head of Pharmacy), Richard Doocey (Haematology), FMHS – Darren Svirskis and Yongchuan Gu (School of Pharmacy)

**The project:** Validated stability indicating methods were developed, optimised and applied for the chemical

quantification of the EPOCH drugs at refrigerated and body temperatures over a period of time. In phase 1 the stability of the product stored at body temperature for 7 days was established. Phase 2 of the study tested the stability of the infusion across a range of environmental exposure conditions that would occur in a clinical setting. Physical stability was determined by visual examination, particle size distribution, osmolality and pH. A "current care" resource utilisation model of EPOCH chemotherapy was evaluated and guidelines were prepared to support the transition to an ambulatory service.

**The results:** All samples tested remained stable under the environmental conditions investigated with more than 95% of the active compounds remaining. The current care practice with this treatment on the Haematology ward is 6 cycles of chemotherapy each lasting 5 in-patient days. This translates to 720 in-patient hours per patient. The resource utilisation analysis for an out-patient model of care showed that for 3 patients per year receiving EPOCH for non-Hodgkin Lymphoma, the savings would accrue to 90 bed days or 2160 in-patient hours per year.

**Conclusion:** EPOCH chemotherapy for non-Hodgkin Lymphoma is a strong candidate for transition to an out-patient model of care.

## Contribution to the aims of the Auckland Academic Health Alliance

The project has supported the development of closer working relationships between the FMHS School of Pharmacy and Auckland DHB's Pharmacy department. These two organisations have set up an Academic Practice Unit which aims to combine the research expertise and capability of the School of Pharmacy with the clinical and pharmacy expertise of the hospital pharmacy to generate practice based medicines research aimed at improving patient outcomes, safety and experience.

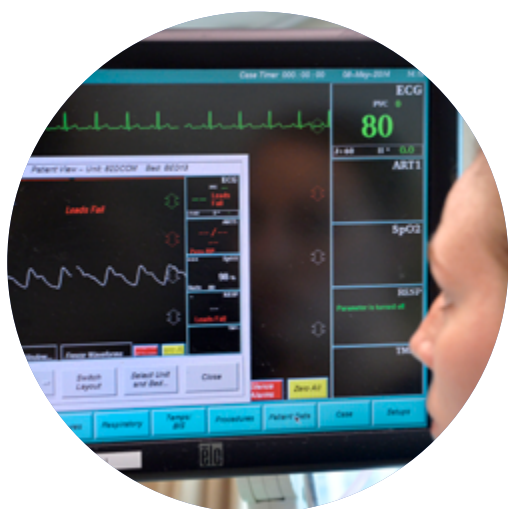
This collaborative project was developed as a result of meetings to explore unmet needs within the hospital pharmacy sector; developing this database is seen as the first step in a unique collaborative approach to developing ambulatory chemotherapy infusion services. Future work will seek to expand the methodology to a range of other treatments which could be transferred from in-patient to ambulatory care.



## Joining of hearts and minds – the cellular basis of Long QT

This pilot study focused on inherited Long QT Syndrome (LQTS), a relatively common condition where the heart does not recharge normally between beats. LQTS has a number of causative genotypes and varies greatly in severity, with 50% of people with LQTS never experience a symptom. However others may experience episodes of sudden loss of consciousness or at the most severe end, heart arrhythmia and sudden death. Symptoms are typically triggered by exercise stress or a fright or startle. There is a clinical need for accurate modelling tools so that factors that might predict disease severity, such as propensity for arrhythmia or response to medication, can be assessed scientifically and safely. This AAHA collaboration has harnessed the expertise and ground-breaking research of Swedish biologist and study team member Dr Annika Winbo. Dr Winbo brought with her to New Zealand five induced pluripotent stem (iPS) cell lines generated from Swedish LQTS patients. These are “master” cells that can potentially be reprogrammed to propagate any cell type in the body. If heart cells, cardiomyocytes, could be derived from these cell lines this would enable simulation of different heart stress events in the laboratory and aid development of LQTS risk and treatment models.

**Aims:** To create a multidisciplinary research team of scientists and clinicians to address the cellular basis of cardiac arrhythmias, with LQTS as the foundation project. This AAHA-funded project aimed to generate human cardiomyocytes from patient-derived iPS cell lines with the potential to model LQTS disease phenotype in the laboratory for the assessment of severity and treatability of different LQTS genotypes.



**The team:** Auckland DHB – Jon Skinner (Paediatric and Congenital Cardiac Service and Childhood Inherited Disease Group), FMHS – Johanna Montgomery and Annika Winbo (Department of Physiology)

**The project:** iPS cell lines from the controls and two of the LQTS patients were expanded and expanded clones were put through a cardiac differentiation process. Spontaneously beating cardiomyocytes were derived from controls and one patient line. These were maintained for 3-7 months in the laboratory. Immunocytochemical staining was performed to verify the presence of contractile elements in the cells. More than 100 electrophysiological recordings were performed on the differentiated cells under resting conditions and when blockers of IKs and IKr channels (implicated in LQTS) were applied. A novel adapted protocol to generate peripheral sympathetic neurons from iPS cells was developed.

**The results:** This AAHA project successfully achieved the formation of a new science-clinical collaboration team, combining scientific expertise from A/Prof Montgomery and Dr Winbo, with clinical expertise from Prof Skinner and Dr Winbo. Patient-derived blood cell to heart cell and blood cell to neuronal cell differentiation was established. Differentiated cardiomyocytes were evident as beating cells under the microscope. Successful recordings from these cells and physiological challenges indicated that elements of the functional loss of the donors (arrhythmia) can be reproduced in their iPS-derived cardiomyocytes in the laboratory.

**The impact:** This AAHA research grant has established not only a new collaboration, but also a unique multidisciplinary neuro-cardiac team of scientists and clinicians that together provide cellular physiology, cardiac physiology, genetics and clinical cardiac electrophysiology expertise. The project has provided the crucial proof of concept that patient-derived cells could enable direct genotype to phenotype correlations with LQTS patient clinical data, with potential for clinician feedback regarding arrhythmogenicity, risk and preventive factors.

### Research Outputs

To read more about this cutting edge research, paste these links in your browser:

<http://www.cidg.org.nz/2017/01/dr-annika-winbo-and-her-ground-breaking-research/>

[http://www.nzherald.co.nz/nationalvideo/news/video.cfm?c\\_id=1503075&gal\\_cid=1503075&gallery\\_id=170639](http://www.nzherald.co.nz/nationalvideo/news/video.cfm?c_id=1503075&gal_cid=1503075&gallery_id=170639)

<http://www.newshub.co.nz/home/health/2017/01/new-hope-for-child-heart-condition-patients.html>



## Busy ICU doctor is new Associate Professor

**Dr Colin McArthur, a senior intensivist in the Department of Critical Care Medicine at Auckland City Hospital was made an Honorary Associate Professor in the Department of Anaesthesiology, University of Auckland, in 2016.**

Dr McArthur is a dual qualified medical specialist (anaesthesia and intensive care) and it was his excellent research record for a busy clinician that prompted the department to nominate him. He has 85 publications in peer reviewed journals, including 10 in the New England Journal of Medicine and several in other prestigious journals including Journal of the American Medical Association, British Medical Journal, and Lancet.

Although these publications are often of collaborative multi-centre trials with large teams of investigators, Dr McArthur is often on the writing committee, and this represents an extremely impressive record of collaborative research.

He was involved in the application process for more than \$10 million in funds to support large multi-centre clinical trials, and was Vice Chair (2009 – 2012) and then Chair (2012 – 2015) of the Australia and New Zealand Intensive Care Society Clinical Trials Group.

This group has been very effective in securing funding for and conducting extremely influential clinical trials in intensive care medicine. He is the current Auckland DHB Clinical Advisor for Research and the Chair of the Auckland DHB Research Review Committee, committee.

*[Source – The University of Auckland]*



A person wearing blue nitrile gloves is using a glass pipette to transfer a red liquid from a small glass vial. The vial has a white label. The background is a blurred laboratory setting. A large, semi-transparent grey circle is overlaid on the left side of the image, containing the text 'FUNDING FOR RESEARCH'. The entire image is framed by a decorative, intricate white line pattern on a dark blue background, resembling a traditional Islamic geometric pattern.

# FUNDING FOR RESEARCH



## FUNDING FOR RESEARCH

**In 2016 Auckland DHB researchers and their colleagues have enjoyed considerable success in obtaining funding of more than \$18 million 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 2016.

#### A+ Trust Project and Small Project Grants

**Kim Brackley and Amy Chan** (Pharmacy) An exploratory study to investigate the medicines information needs of mental health and general medical adult inpatients at Auckland DHB (\$11,140)

**Alison Burge and Alison Leversha** (Community Child Health and Disability Services)- School readiness in Tamaki: The prevalence of health, developmental, behavioural, educational and social needs among new entrants in the Tamaki Community (\$49,980)

**Amy Chan** (Pharmacy) Retrospective study of antipsychotic use and hypersexuality (\$5,500)

**Eileen Gilder** (Cardiothoracic and Vascular Intensive Care Unit)- The endotracheal tube and endotracheal suction. An exploration of the patient experience in Adult Cardiac Surgical Intensive Care patients (\$4,090)

**Jessica Harper** (Community Child Health and Disability Service)- What Hinders and Enables Help Seeking

Behaviour in Parents Transitioning from Pregnancy to Parenthood (\$2,697)

**Elizabeth Maxwell** (Anaesthesia and Perioperative Medicine)- BCA-R Regional Anaesthesia and Breast Cancer Recurrence (\$40,000)

**Brent McSharry** (Paediatric Intensive Care Unit)- A single-centre, feasibility trial comparing Plasma-Lyte 148 (Registered Trademark) with 0.9% saline for all crystalloid fluid therapy in inpatients of a children's hospital requiring IV fluids (\$15,000)

**Moir Nelson** (Community Child Health and Disability Service)- Communication difficulties in primary school new entrants in Tamaki: The prevalence of speech and language problems, including the contribution of English as a second language and communication delays and disorders, in children beginning school in the Tamaki area (\$14,841)

**Lynette Newby** (Department of Critical Care Medicine) - A prospective multicentre observational study of aneurysmal subarachnoid haemorrhage in Australasian intensive care – PROMOTE-SAH (\$14,920)

**Dick Ongley** (Anaesthesia and Perioperative Medicine) - Frailty assessment for the older preoperative surgical patient in the anaesthetic assessment clinic: a multicentre prospective observational pilot study (\$25,000)

**Jackie Robinson** (Palliative Care)- Accessing palliative care services in the last year of life: local, regional and national data (\$14,175)

**Josephine Stanton** (Child and Family Unit)- A qualitative study of experiences young people and families report of admission to an acute adolescent mental health inpatient unit (\$15,000)

**David Vokes** (Department of Otorhinolaryngology Head & Neck Surgery)- Laryngeal injury and dysphagia after cardiac surgery (\$14,976)

**Sasini Wijayaratne** (Diabetes Service)- Investigating Clinical Outcomes in Youth Diagnosed with Type 2 Diabetes in the Auckland Region, in Comparison to their Type 1 Counterparts (\$7,000)



**Michelle Wise** (National Women's Health)- Outpatient balloon induction of labour: an RCT (\$49,653)

**Tanya Wright** (Child and Family Unit)- E-screening and clinical decision support for depression in pregnant mothers (\$49,558)

**Chang-Ho Yoon** (General Medicine)- Development and implementation of an app to support antimicrobial prescribing (\$50,000)

## A+ Trust Summer Student Grants

**Kim Brackley and Amy Chan** (Pharmacy)- An exploratory study to investigate the medicines information needs of general medical adult inpatients at Auckland DHB

**Tim Cutfield** (Infectious Diseases)- How many patients with cellulitis are unnecessarily admitted to Auckland City Hospital?

**Kevin Ellyett** (Physiology)- Incidence of flow limitation during exercise in healthy adolescent females who experience dyspnoea on exertion

**Kerry Gunn** (Anaesthesia)- Massive Transfusion Registry Sub-Study: Early predictors of critical bleeding and massive transfusion in Liver Transplant patients

**Alison Leversha** (Community Child Health and Disability Service)- Health knowledge and transition readiness of young people with Rheumatic Fever

**Gina O'Grady** (Paediatric Neurology)- Microcephaly in New Zealand- Incorporating Zika virus into our diagnostic algorithm

**Stephen Ritchie** (Infectious Diseases)- Can an Infographic convey knowledge about the harmful effects of antibiotic treatment to consumers?

**Jackie Robinson** (Palliative Care)- How are ADHB services used by patients in their last 12 months of life?

**Peter Ruygrok** (Cardiology)- Intermediate term outcomes in patients with severe aortic stenosis discussed at the multidisciplinary "Heart Team" meeting according to treatment allocation

**Sasini Wijayaratne** (Diabetes Service)- Investigating Clinical Outcomes in Youth Diagnosed with Type 2 Diabetes in the Auckland Region, in Comparison to their Type 1 Counterparts

## Auckland Academic Health Alliance Collaboration Fund

**Mark O'Carroll** (Respiratory Medicine), Raida Al-Kassas (University of Auckland) New and effective method for the treatment of cystic fibrosis using nanotechnology, an investigation into delivering sodium chloride therapy using inhaled nanoparticles. (\$100,000)

**Andrew Old** (Strategy and Participation), Merryn Gott (University of Auckland) End of Life Care Provision by Auckland DHB, an extensive survey on the end of life circumstances of terminal patients dying under the care of the Auckland District Health Board. (\$49,000)

**Clinton Turner** (LabPlus Pathology), Mike Draganow (University of Auckland) Immune Cells in Meningioma, a retrospective observational analysis of the prognostic significance of tumour infiltrating lymphocyte and macrophage subsets. The particular focus is on the seven-year recurrence-free survival of patients with meningioma in Auckland (\$50,000)

**Mark Webster** (Cardiology), Susann Beier (University of Auckland) Coronary Artery Atlas, a study of coronary artery flow assessment in normal and pathological cases to improve stent strategy (\$100,000)

## Accident Compensation Commission

**Jennifer Weller and Alan Merry** (Anaesthesia and Perioperative Medicine), **Ian Civil** (Trauma Service) - MORSIM – Multidisciplinary Operating Room Simulations – a national team training intervention for patient safety (\$98,000)

## Auckland Medical Research Foundation

**Emma Best** (Starship Infectious Diseases) – Travel grant to attend the Infection and Immunity in Children Course and the Australia and New Zealand Paediatric Infectious Diseases Clinical Meeting, Perth

**Doug Campbell, Tom Burrows, Cornelis Kruger and Tim Short** (Anaesthesia) – Perioperative atrial fibrillation and postoperative stroke (PAFS) (\$30,743)



**Justin Dean, Alistair Gunn** (Newborn Services) – IGF-1 and preterm brain injury (\$158,997)

Harvey Ho, Peter Swan, **Adam Bartlett** (NZ Liver Transplant Unit), **Andrew Holden** (Radiology) – Augment reality aided liver ablation (\$110,139)

**Louis Lao, George Laking** (Oncology) – NIVORAD (\$104,454)

**Rinki Murphy** (Diabetes Service), Naomi Davies, Justin O’Sullivan, Lindsay Plank – Bariatric surgery and the gut microbiome (\$96,743)

Max Petrov, **Rinki Murphy** (Diabetes Service) – Hormonal markers of diabetes after acute pancreatitis (\$108,702)

Anna Ponnampalam, **Cynthia Farquhar** (National Women’s Health) – Epigenetics of progesterone resistance in endometriosis (\$157,141)

Veronika Sander, Alan Davidson, **Rinki Murphy** (Diabetes Service) – HNF1B-associated disease in a human kidney organoid model (\$120,000)

**Giuseppe Sasso** (Radiation Oncology), Shankar Siva, Rebecca Montgomery – Stereotactic body radiotherapy in lung metastases. SAFRON II (\$25,000)

**Clinton Turner** (LabPlus Pathology), Mike Dragunow, Maurice Curtis – The prognostic significance of immune cell infiltrates in Meningioma (\$10, 432)

Mark Vickers, **Lesley McCowan and Katie Groom** (National Women’s Health), Clint Gray – miRNAs as early predictors of preterm birth (\$114,379)

**Andrew Wood** (Paediatric Haematology and Oncology) – Douglas Goodfellow Repatriation Fellowship Extension – Developing zebrafish ETV6 models of acute myeloid leukemia (AML) for chemical suppressor screens (\$195,924)

## Australia and New Zealand Gynadological Oncology Group

**Michelle Wilson (Medical Oncology)** - NEO Study – 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

## Australian and New Zealand College of Anaesthetists

Damien Castanelli, **Jennifer Weller** (Anaesthesia and Perioperative Medicine), Brian Jolly- Trusting our tools – use of WBA scores in ANZCA (\$50,000)

**Jennifer Weller, Alan Merry** (Anaesthesia and Perioperative Medicine) – Douglas Joseph Professorship. Multidisciplinary Operating Room Simulations (\$70,000)

## Cure Kids

**Katie Groom** (National Women’s Health), Chris McKinlay, **Frank Bloomfield** (Newborn Services), Trecia Wouldes, **Lesley McCowan** (National Women’s Health) - STRIDER NZAus Childhood Outcome Study- Childhood outcomes of STRIDER NZAus: A Randomised Controlled Trial of Sildenafil Therapy in Dismal Prognosis Early-Onset Intrauterine Growth Restriction (New Zealand and Australia) (\$105,024)

**Alison Leversha** (Community Child Health and Disability Service)- Collective Impact: Working with children, whanau and their communities to improve health, development and school readiness among vulnerable children and families in the Tamaki Community (\$94,422)



*The Welcome to School Team  
(including Dr Alison Leversha) – health and education  
collaboration at work in Panmure Bridge School*



**Alison Leversha** (Community Child Health and Disability Service) Comparing the Old with the New: Randomised controlled trial of three different treatments for mild-to-moderate impetigo in children (\$200,000)

## Can hydrogen peroxide cream be at least as effective as the increasingly anti-biotic resistant conventional treatment, Fusidic Acid?

### What is the problem and who does it affect?

*Serious skin infections have been among the top three reasons for admission to Starship and KidzFirst hospitals over the last 15 years. The effects are disproportionately borne by Pacific and Maori children, who are four – five times, and two – three times, more likely respectively to be admitted with serious skin infections than European children.*

*Skin infections are among the most common health issues affecting children in low decile schools, with increasing concern of the impact on school attendance and subsequent*

*educational problems. The most common skin infection in schools is impetigo or 'school sores', affecting close to a third of children in schools in socioeconomically disadvantaged communities.*

*Currently, impetigo is treated with fusidic acid – an antibiotic cream applied to the surface of the skin. However, bacterial resistance to this medication is now approaching 30 percent causing concern about its ongoing use contributing to further antibiotic resistance. It is therefore necessary that alternative treatment options be examined.*

### What is the intervention hoping to achieve?

*Dr Leversha, from Auckland's Starship Children's Hospital, will undertake an intervention which will recruit 480 children, aged five -13, who present with school sores at school-based health clinics. Dr Leversha will compare fusidic acid with an alternative treatment, hydrogen peroxide cream, applied to the skin infection, while also assessing these against simple wound care to help further illustrate potential benefits.]*

*If successful, the results of the study will inform evidence-based skin infection guidelines locally, nationally and internationally.*

## Genesis Oncology Trust

**Avril Hull** (Oncology)- To attend European Neuroendocrine Tumor Society meeting in Barcelona, Spain, from 8- 10 March 2017 (\$3,000)

Nicola Lawrence, **Michelle Wilson** (Oncology)- New Zealand One Day Concept Development Workshop (\$7,224)

## Goldman Sachs Foundation Cancer Fellowship

**Michelle Wilson** (Oncology) (This Fellowship is awarded to a medical graduate committed to a clinical career with a major involvement in cancer medicine)

## 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.**



**Krish Chaudhuri (Cardiac Surgical Unit)** - The COMCAB Study- predictive computer modelling to aid decision making for coronary artery bypass grafting strategies (\$50,000)

**Tom Gentles** (Paediatric and Congenital Cardiac Service) - To enable the introduction of pulse oximetry screening in a rural setting as part of a study investigating the feasibility of introducing a nationwide screening programme (\$19,992)

**Eileen Gilder** (Cardiothoracic and Vascular Intensive Care Unit) – PhD Scholarship: Suction or Not to Suction, that is the question (\$105,000)

**John Kolbe** (Respiratory Medicine)- Lung Clearance Index (LCI) Validating measures of airway dysfunction (\$20,000)

**Rachael Parke** (Cardiothoracic and Vascular Intensive Care Unit) – Senior Fellowship: Determine whether an IV fluid regime given to high risk patients following cardiac surgery, reduces ICU length of stay compared to usual care (\$100,000)

**Kathryn Waddell-Smith** (Paediatric and Congenital Cardiac Service)- To document reasons behind beta-blocker adherence, or lack thereof, amongst patients with familial long QT syndrome types 1 and 2 (\$20,000)

**Mark Webster** (Cardiology)- Fasting before coronary angiography and intervention (\$50,000)

## Health Research Council of New Zealand

**Frank Bloomfield** (Newborn Services)- Feeding preterm babies for life-long health (\$4,999,704)

**Cameron Grant** (General Paediatrics)- Effect of early childhood ear infections on language, cognition and behaviour (\$1,191,663)

**Sandra Hotu** (Respiratory Medicine)- A model of care for Māori and Pacific people with chronic airways disease (\$240,000)

**Colin McArthur** (Department of Critical Care Medicine) - Platform trial optimising interventions in severe community acquired pneumonia (\$4,814,924)

**Colin McArthur** (Department of Critical Care Medicine)- Pre-hospital anti-fibrinolytics for traumatic coagulopathy and haemorrhage (\$943,384)

**Shay McGuinness** (Cardiothoracic and Vascular Intensive Care Unit)- Transfusion requirements in patients for cardiac surgery- TRICS III (\$1,199,468)

**Rinki Murphy** (Diabetes Service)- Probiotics for prediabetes: Dose-ranging and MRI feasibility study (\$149,209)

**Ralph Stewart** (Cardiology)- Improving outcomes of patients with atrial fibrillation in primary care (\$1,196,335)

## Li Family Cancer Research Grant

**Michelle Wilson** (Oncology)- PROSPER – Profiling of Oncology Patients as part of Clinical care and Research (\$480,000)

## National Heart Foundation

**Rachael Parke** (Cardiothoracic and Vascular Intensive Care Unit) - After Bypass- the FAB study Fluids (\$133,280)

## Royal Australasian College of Physicians

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



***A new multimillion dollar clinical trial involving infants born at Auckland, Middlemore and Wellington hospitals will aim to find out if using paracetamol in infancy to treat pain and fever is associated with childhood asthma.***

Paediatric emergency medicine specialist at Starship Children's Hospital, Dr Stuart Dalziel, has received a \$4.99 million programme grant from the Health Research Council of New Zealand (HRC) to carry out the trial – the first of its kind in the world. Hosting an elite programme grant will be a first for Auckland District Health Board (Auckland DHB). Auckland DHB researchers have had considerable success with HRC project grants and career development awards, but the scope of this research and the level of funding are unprecedented. The study will run for 11 years and involve 3,900 infants and their families / whānau. Dr Dalziel will lead the trial alongside a highly experienced team of asthma and child health experts from Counties Manukau District Health Boards, Medical Research Institute of New Zealand (Wellington), and the universities of Auckland, Otago and Calgary (Canada).

Despite considerable investment in basic science and genetics research, asthma remains a common, chronic condition with no cure. The scientific focus is now on prevention. Dr Dalziel says he is thrilled to receive this HRC programme grant as there is an urgent need for research that leads to evidence-based primary prevention strategies to reduce the prevalence of asthma in children.

"To date, randomised controlled trials looking at the primary prevention of asthma have focused on dietary modification, probiotics, encouraging breast feeding, and avoidance of environmental triggers such as tobacco smoke, house dust mites and other allergens. Unfortunately, none of the intervention strategies trialled has provided sufficient evidence to lead to widespread public health intervention programmes," says Dr Dalziel.

The rationale for the programme study comes from the highly respected International Study of Asthma and Allergies in Childhood (ISAAC), the largest international epidemiological study of childhood asthma. The ISAAC study, which included data from over 200,000 children in 31 countries, has suggested that paracetamol given in the first year of life may influence the risk of developing later asthma. However, Dr Dalziel says that it is unclear if this finding is due to paracetamol itself or to the illness that led to it being given – for example, a chest infection.

"With this new trial, we will definitively answer whether paracetamol treatment, compared with ibuprofen treatment, as required for pain and fever in the first year of life, increases the risk of asthma at age six years," says Dr Dalziel.



*Dr Stuart Dalziel*

Paracetamol is the most commonly prescribed and over-the-counter medication dispensed to children in the first year of life, both in New Zealand and the developed world.

HRC Director of Strategy and Policy Dr Tania Pocock says asthma rates in New Zealand remain stubbornly among the highest in the world. One in seven children and one in nine adults receives treatment here for asthma, and Māori and Pacific children are disproportionately affected.

She says the results from this programme will be of relevance to all parents and health care providers who see young infants.

"If the results confirm that there is an association between paracetamol in infancy and later asthma, we will have the evidence for a public health intervention that has the potential to reduce New Zealand's high rate of asthma. If, on the other hand, the results don't confirm an association, it will provide reassurance to parents and medical professionals that this most commonly used medicine is safe," says Dr Pocock.

(Dr Stuart Dalziel has established paediatric emergency medicine (PEM) research in New Zealand and is a recognised international leader in the field. He is currently the deputy chair of the global PEM research network and chairs the Paediatric Research in Emergency Departments International Collaborative (PREDICT), a network of children's hospital emergency departments in Australia and New Zealand. Dr Dalziel currently leads a HRC clinical practitioner research fellowship study and project grant.)

*(Article courtesy of the Health Research Council of New Zealand)*



# 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. In 2016, that vision took an important step forward with the announcement of a significant new investment in paediatric clinical research.**

Subsequent to that announcement, seven projects were selected through the inaugural assessment round, receiving a total of \$570,000 from the Starship Foundation. The seven successful projects tackle a broad range of important child health challenges, such as the high incidence of teenage suicide and depression, the incidence of brain injury and neurodevelopmental delays in infants requiring life-saving heart surgery and poor dental health in New Zealand's preschool children.

While the Foundation has funded various research projects in the past, in addition to their longstanding contribution to Starship projects such as building refurbishments, equipment and staff training and development, the new investment in clinical research represents a significant strategic shift for the Foundation. The investment was designed to enable 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 and while all the lead investigators work in Starship Child Health, the Foundation is keen to support collaboration across the country.

The successful recipients are Dr Katie Bach (Starship Oral Health Service) and Prof Cameron Grant (General Paediatrics); Dr Gina O'Grady (Paediatric Neuroservices); Hiran Thabrew (Starship Consult Liaison); Dr Paul Baker (Starship Paediatric Anaesthesiology); Dr Tom Gentles, (Paediatric and Congenital Cardiac Services); Dr Anusha Ganeshalingham (Paediatric Intensive Care Unit) and Dr Sarah Missen (National Metabolic Service).

The new clinical research funding announced at the end of 2016 included a special award 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 critical to the foundational support for research, previously

funding senior research fellowships. The trustees chose Dr Gina O'Grady's research into the use new genomic technologies to improve the diagnosis, treatment and prevention of inherited brain and muscle disease as the recipient of the Athlae Lyon Starship Clinical Research Award for 2017.

Both the Starship Foundation and Starship Child Health are now looking to build on this great base and raise the critical funds required to boost the research aspirations of the skilled child health teams at Starship.



*Dr Gina O'Grady, pictured here with her young patient Peter, has been awarded research funding by the Starship Foundation thanks to the support of the Athlae Lyon Starship Research Trust. Previously Dr O'Grady has held a Starship Foundation Training Fellowship.*



## Clinical Research Project Grants awarded in 2016

**Katie Bach** (Starship Oral Health Service) and **Cameron Grant** (General Paediatrics)- Oh to be able to open wide and smile

**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

**Anusha Ganeshalingham** (Paediatric Intensive Care Unit)- The importance of mean arterial blood pressure in the development of brain injury in infants requiring cardiac surgery

**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

**Sarah Missen** (National Metabolic Service)- A retrospective audit of patients diagnosed with Mitochondrial Disease in New Zealand from 2000 to 2015

**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).

**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 HEEADSSS assessment.

## Other research funding provided in 2016

Athlae Lyon Starship Research Fellowship - **Dr Craig Jefferies** (Paediatric Endocrinology)

Athlae Lyon Starship Research Fellowship - **Dr Naveen Pillarisetti** (Paediatric Respiratory) completed June 2016

**Andrew Thompson** (Consult Liaison) – Extraordinary children

**Dr Craig Jefferies** (Paediatric Endocrinology)- Type 1 Diabetes TrialNet Study

## Tamaki Redevelopment Company

**Alison Leversha** (Community Child Health and Disability Service) School Readiness in Tamaki (\$40,000)

## University of Auckland

Richard Faull, **Alan Barber** (Neurology), Lynette Tippet – University of Auckland Foundation / Seelye Fellowship (\$13,000)



# Celebrating **Our People** 2016

”

”



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 HealthExcellence 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.*

#### 2016 Winner

**Michelle Wise and team** (National Women's Health)  
– BEC1: Body mass index trumps age in decision for endometrial biopsy.



*Dr Michelle Wise (third from left) with Professor Cindy Farquhar, A/Prof John Thompson and Dr Premjit Gill*

**Project team:** Dr Michelle Wise, Dr Premjit Gill, Sarah Lensen, Assoc Prof John Thompson, Prof Cindy Farquhar.

**Reference:** American Journal of Obstetrics and Gynecology 2016;215:598.e1-8.

The objective of this study was to evaluate the effect of body mass (BMI) on the risk of endometrial hyperplasia (pre-cancer) or cancer. A retrospective cohort study at National Women's Health of 916 pre-menopausal women referred for abnormal uterine bleeding, who had an endometrial biopsy between 2008 and 2014, found that 4.9 per cent had complex endometrial hyperplasia or cancer. Women with a BMI of 30kg/m<sup>2</sup> or more were four times more likely to develop complex hyperplasia or cancer. Other risk factors were not having any children, and anaemia; age was not a risk. In conclusion, obesity was found to be an important risk factor in women with abnormal uterine bleeding. Considering that more than half the women with complex hyperplasia or cancer were under 45 years of age (most were in their 20s and 30s, an unexpected finding), deciding to biopsy based primarily on age, as is currently recommended, potentially misses many cases or delays diagnosis. BMI should, therefore, be the first consideration in the decision in whether to perform endometrial biopsy and to refer to secondary gynaecology services.

According to Professor Farquhar *"We will be able to focus on a younger group of women with high BMI and get them investigated appropriately. The real benefit is going to be in reducing inappropriate testing for women with abnormal uterine bleeding in this age group and we'll be able to incorporate this into clinical pathways and hopefully a national guideline."*

#### Finalist:

**Prof Ed Gane, Dr Fahimeh Rahnama and team** (Liver Transplant Service and LabPlus Virology)- Hepatitis B infection in New Zealand Māori

**Reference:** Serological and clinical outcomes of horizontally transmitted chronic hepatitis B infection in New Zealand Maori: results from a 28-year follow-up study. Gut, doi:10.1136/gutjnl-2013-306247

Dr Rahnama *"The main objective of this project was to identify new predictors of liver cancer in Maori living with hepatitis B which can be used in clinical practice to improve the government funded surveillance programme in almost 120,000 New Zealanders living with hepatitis B."* *"Currently we have about 100 cases a year of liver cancer related to Hepatitis B but only one quarter of them are detected early enough to be able to have any type of treatment and the remainder have a life expectancy of less than six months. Now every new referral with hepatitis B will be able to be prioritised for life time risk of liver cancer, and their later follow up individualised according to their risk. Early detection of liver cancer will increase the number of patients who can come to Auckland City Hospital for curative liver transplantation"*.



## Finalist:

**Dr Natasha Heather (Paediatric Endocrinology), Dr Dianne Webster (Chemical Pathology, LabPlus) and team** – Newborn screening for endocrine disorders

**Reference:** Newborn screening for congenital adrenal hyperplasia in New Zealand, 1994-2013. J Clin Endocrinol Metab, March 2015, 100(3):1002–1008.

Dr Heather *“We wanted to see whether newborn screening for CAH or congenital adrenal hyperplasia is a useful thing to do. This is a birth defect where the adrenal gland is unable to produce a number of essential hormones and because of this, babies can die or become extremely unwell in the first few weeks of life, but on the other hand if you know about it, it’s a very treatable condition”. “What we have found is that babies who are picked up by screening benefit greatly from early diagnosis. Early diagnosis of this condition prevents death, serious illness and long-term consequences like intellectual impairment, and what we have shown is that newborn screening picks up babies early enough so that they are still well or have very minimal symptoms”.*

## Best Research Posters

Auckland DHB Celebration Week (final week of November) was the occasion, and ACH Level 5 Atrium was the venue, for the 2016 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)

#### Winner:

**Amy Chan** (Pharmacy)- Runner Up: **Barbara Cormack** (Nutrition and Dietetics)

### Medical

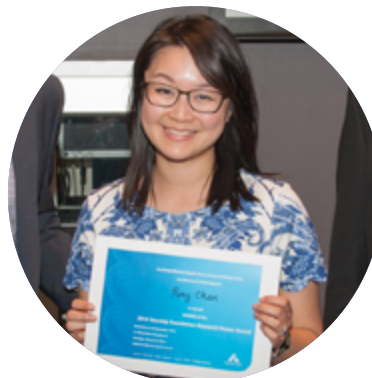
**Nicola Culliford-Semmens** (Paediatric and Congenital Cardiac Service)- Runner Up: **Alana Ainsworth** (Paediatric Respiratory Department)

## Nursing

**Laurelle Breen, Heather Cave, Kirsty Jackson and Sele Vave Patterson** (Community Child Health and Disability Service)- Runner Up- **Susan Atherton** (Department of Critical Care Medicine)

## Starship Best Children’s Research Poster

**Amy Chan** (Pharmacy)-Runner Up: **Rachel Webb** (Paediatric Infectious Diseases Department). We gratefully acknowledge the continued support of this competition by the Starship Foundation



Starship Foundation Research Poster winner Dr Amy Chan

## Allied Health, Scientific and Technical Awards

The Awards celebrate the enormous contribution these services make to our patients and to Auckland DHB. There are 1800 people working across 49 professions in Allied Health, Scientific and Technical Services.

The 2016 Clinical Support Research Award went to;

#### Winner:

**Jill Depledge** (Women’s Health Physiotherapy)

#### Runner up:

**Barbara Cormack** (Neonatal and Paediatric Dietetics)



## Auckland DHB Young Investigator Award

The quality and impact of research undertaken by our junior clinical staff was also highlighted with the oral presentations for the Young Investigator Award, 2016. Five outstanding candidates were selected from a competitive field of entries by a multidisciplinary panel. The Physicians Grand Rounds, held at the Clinical Education Centre Auditorium, was attended by a large number of clinical and academic staff both past and present to hear the finalists' presentations, which are listed below.

### 2016 finalists

**Cathrine Patten**, The ERUPT Study – Evaluating the rate of undiagnosed Type 2 diabetes in patients referred for coronary angiograms

**Lily Wu**, Long-term Outcome after Curative Treatment for Hepatocellular Carcinoma: A Single Institution Intention-to-Treat Analysis of Orthotopic Transplantation Versus Liver

**Nick Eichler**, Investigation of the effect of a school-based nursing intervention on hospitalisations with skin infections

**Suzanne Lydiard**, Real-time adaptive cardiac and respiratory motion compensation for Cardiac Radiosurgery to non-invasively treat Atrial Fibrillation – a feasibility study

**Lily Wu** was judged the winner and **Suzanne Lydiard** the runner-up. Prizes for the winner and runner up were generously donated by the A+ Charitable Trust



2016 Young Investigator winner Lily Wu



2016 Young Investigator Runner Up Suzanne Lydiard presents her research

## Clarivate Analytics Highly Cited Researchers 2016

Congratulations to **Professors Ed Gane** (NZ Liver Transplant Unit) and **Harvey White** (Cardiology) who made it onto Clarivate Analytics Highly Cited list in 2016. Only a handful of New Zealand researchers made it onto the list.

## Perinatal Society of Australia and New Zealand Research Awards (PSANZ)

The PSANZ annual conference showcases cutting-edge research into improving the health and long-term outcomes for mothers and their babies. At the 2016 meeting PhD candidate and neonatal and paediatric dietician **Barbara Cormack** won three awards for her two presentations:

### 2016 New Investigator Award Best Oral Presentation - Allied Health

### 2016 Best Poster in Allied Health

### 2016 Nutrition Research Award for best nutrition-related abstract



## Sanitarium Innovator of the Year

World renowned hepatologist, academic Professor Ed Gane, was named the Sanitarium Innovator of the Year at the 2017 New Zealander of the Year Awards. Professor Ed Gane was honoured for his innovative contributions to the development of a cure for Hepatitis C.



*Professor Ed Gane*

He is the Deputy Director and Hepatologist of the New Zealand Liver Transplant Unit at Auckland City Hospital and an Adjunct Professor of Medicine at the University of Auckland.

For a number of years, Professor Gane supervised meticulous drug trials on Kiwi volunteers with chronic Hepatitis C. He trialed various combinations of different antivirals until he finally got the results he was looking for.

Due to Professor Gane and his international colleagues' innovative work and perseverance, almost everyone with Hepatitis C can now be cured with a short course of tablets. The World Health Organisation recently announced that more than one million people have already been cured with these new drugs and that global eradication of Hepatitis C should now be achievable within the next 30 years.

This outstanding advance in treatment of Hepatitis C will have a future global impact at a similar scale that the Polio vaccine developed by Jonas Salk has had since 1955.

[Source – University of Auckland]

## Summer Students Awards 2016

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 2016-2017. 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 2016 A+ Trust Summer Studentship prize for best students' reports were;

**Hannah Walter** (winner), supervised by **Tim Cutfield and Stephen Ritchie** (Infectious Diseases Department) *"How many patients with cellulitis are unnecessarily admitted to Auckland City Hospital?"*

**Alaina McGoram** (runner up), supervised by **Kevin Ellyett** (Respiratory Physiology Laboratory) *"Incidence of flow limitation during exercise in healthy adolescent females who experience dyspnoea on exertion"*



## 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 incommercially 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 more than 300 new research projects that commenced at Auckland DHB in 2016, along with the lead investigator.

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

**Sally Cain** - Quality improvement project on falls in Greenlane Clinical Centre

**Amy Chan** - An exploratory study to investigate the medicines information needs of mental health and general medical adult inpatients at Auckland DHB

**Amy Chan** - Retrospective Study of Antipsychotic use and Hypersexuality

**Eamon Duffy** - Determining pharmacokinetics of antibiotics in pus

**Sinead Ennis** - Clinical notes audit to monitor the introduction of best practice guidelines for amputee management following major lower limb amputation

**Lyn Lloyd** - International study concerning dietetic implementation of the Nutrition Care Process and Terminology

**Amanda Meinhardt** - What are the factors that impact upon the use of Motivational Interviewing skills following a two-day training in Motivational Interviewing in a health setting

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

**Allan Brown** - Hepcon HMS use with patients undergoing cardiac surgery

**Douglas Campbell** - Trial of direct or video-laryngoscopy for endotracheal intubation during surgery: MAC-V

**Tin Chiu** - The use of post-operative regional analgesia rather than systemic analgesia to decrease the incidence of post-operative delirium after acute hip fracture surgery? A prospective randomised-controlled double-blinded pilot study

**Rachel Donegan** - Prothrombinex-VF use and compliance with the 2013 update Consensus Guidelines for Warfarin Reversal

**Matthew Drake** - Comparing 0.125%, 0.1% and 0.0625% Bupivacaine with 2mcg/ml Fentanyl for maintenance of epidural analgesia on delivery unit at National Women's Hospital, Auckland

**Mark Fisher** - The Outcome of Anaphylaxis Following Anaesthesia at a Large New Zealand Teaching Hospital

**Veronica Gin** - Study of Emergency Response for Intraoperative Anaesthesia Critical Events on Level 8 Operating Rooms (Red-Bell)

**Ben Griffiths** - ELQuIS Emergency Laparotomy Quality Improvement Interventional Study

**Kerry Gunn** - Massive Transfusion Registry Sub-Study: Massive Transfusion in Liver Transplant Patients

**Alison Jackson** - Patient-reported Perioperative Experiences in New Zealand: A Prospective analysis of patient-reported experience measures in multiple centres throughout New Zealand. PREM

**Gemma Malpas** - Retrospective review of the anaesthetic management for thrombectomy in acute ischaemic stroke

**Alan Merry** - An observational study of current practices in pre-oxygenation among anaesthetists

**Alan Merry** - Measuring Surgical Outcomes using Days Alive and Out of Hospital

**Alan Merry** - Does high-flow transnasal humidified rapid-insufflation ventilatory exchange (THRIVE) improve the Reliability of routine preoxygenation before induction of anesthesia?

**Martin Misur** - The Perioperative Administration of Dexamethasone and Infection - PADDI Trial

**Simon Mitchell** - The impact of the ADHB Surgical Safety Checklist paradigm change on the incidence of specimen labelling errors

**Dick Ongley** - Frailty assessment for the older preoperative surgical patient in the anaesthetic assessment clinic: a multicentre prospective observational pilot study

**Keith Petrie** - Can a placebo explanation reduce side effect reporting after intravenous iron infusion? IV Iron Placebo Study

**Tim Short** - A Phase 3, Randomized, Double-Blind, Placebo-Controlled, Multicenter, Evaluation of the Safety of N1539 Following Major Surgery (REC-15-017)

**Jay van der Westhuizen** - The effect of Upfront Administration of Fibrinogen concentrate in Obstetric Haemorrhage. FIB-Up-Front

**Craig Webster** - Understanding possible differences in cognitive load in anaesthetists using two models of anaesthetic machine

**Jennifer Weller** - Safety and team cultures in the operating room: using WHOBARS to understand clinician attitudes to participation in the Surgical Safety Checklist

Anaesthesia (Starship):

**Morgan Edwards** - 30-day post-operative mortality in paediatric patients undergoing surgery at Starship Hospital between January 2010 and December 2015

**Graeme Knottenbelt** - Assessment of Starship OR medical staff Chest Compression Quality before and after visual feedback educational intervention using Paediatric QCPR Mannequin.



## Cardiology (Adult):

**Ammar Alsamarra'i** - Balloon aortic valvuloplasty for the treatment of severe aortic stenosis

**Ammar Alsamarra'i** - Spontaneous coronary artery dissection

**Jocelyne Benatar** - A Randomized, Double-blind, Placebo-controlled Study to Evaluate the Effect of AMG 334 on Exercise Time During a Treadmill Test in Subjects with Stable Angina

**Jocelyne Benatar** - A phase III, double-blind, randomized placebo-controlled study to evaluate the effects of dalcetrapib on cardiovascular (CV) risk in a genetically defined population with a recent Acute Coronary Syndrome (ACS)

**Elizabeth Broadbent** - The experience of caring for people with heart or lung disease

**Rob Doughty** - A Randomized Parallel-Group, Placebo-Controlled, Double-Blind, Event-Driven, Multi-Center Pivotal Phase III Clinical Outcome Trial of Efficacy and Safety of the Oral sGC Stimulator Vericiguat in Subjects With Heart Failure

**Margaret Hood** - Understanding Outcomes with the EMBLEM S-ICD System in Primary Prevention patients with Low Ejection Fractions

**Liji Jose** - A clinical audit of nursing care practice and patient experience in the first 24 hours post radial artery sheath removal

**Ralph Maddison** - Text messaging to enhance self-management of cardiovascular disease

**Kelly Reynish** - A review of Automatic External Defibrillators issued to patients by Auckland City Hospital

**Peter Ruygrok** - Safety and Efficacy of the CARILLON Mitral Contour System in Reducing Functional Mitral Regurgitation (FMR) Associated with Heart Failure

**Peter Ruygrok** - Intermediate term outcomes in patients with severe aortic stenosis discussed at the multidisciplinary "Heart Team" meeting according to treatment allocation

**Warren Smith** - Oral anticoagulant usage in patients presenting with atrial fibrillation and stroke

**Jim Stewart** - FAST Feasibility Study: Fully Absorbable Scaffold Feasibility Study

**Ralph Stewart** - All New Zealand Acute Coronary Syndromes Quality Improvement Registry Trial of Oxygen Therapy

**Tom Wang** - Outcomes and risk models of surgery for aortic dissection

**Mark Webster** - Coronary artery flow assessment in normal and pathological cases to improve stent strategy by identification of risk predictors by patient profiling

**Mark Webster** - Biotroniks - Safety and Performance in de Novo Lesion of Native Coronary Arteries with Magmaris - Registry

**Susan Wells** - Identifying the online health information needs for cardiology patients with in-depth exploration of women's needs and experiences: a mixed methods study

**Alistair Young** - Cardiac MRI Database and Registry

## Cardiology (Starship):

**Tom Gentles** - Improving functional outcomes after Fontan surgery by a cross-sectional study of the outcomes following variation in practice in Australia and New Zealand: focus on anticoagulation and cardiac shunting by the fenestration

**Tom Gentles** - Pulse oximetry for the detection of congenital heart disease in newborn infants: a study assessing feasibility of a national screening programme

**Andrew Martin** - Defibrillation Testing at the Time of Cardioverter Defibrillator Implantation in Pediatric and Congenital Heart Disease Patients

## Cardiothoracic Surgical Unit:

**Ghaz Jabur** - Does emboli exposure associated with cardiopulmonary bypass alter cerebral autoregulation?

**Paget Milsom** - An audit of routine postoperative outcomes for the Sildenafil during CABG Operations to Reduce Endpoints for patients with Coronary ARtery Disease (SCORECARD) project

## Cardiothoracic and Vascular Intensive Care Unit:

**Eileen Gilder** - The endotracheal tube and endotracheal suction: an exploration of Adult Cardiac Surgical Intensive Care patient's experience

**Shay McGuinness** - PneumoINSPIRE - International study on Nosocomial pneumonia in intensive care

**Shay McGuinness** - Standard versus Accelerated initiation of Renal Replacement Therapy in Acute Kidney Injury (STARTR-AKI): A Multi-Centre, Randomized, Controlled Trial

**Shay McGuinness** - Proton Pump Inhibitors vs. Histamine-2 Receptor Blockers for Ulcer Prophylaxis Therapy in the Intensive Care Unit (PEPTIC)

**Rachael Parke** - Fourth international study of mechanical ventilation - ISMV study

**Rachael Parke** - 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

**Kevin Peek** - Audit of post-cardiac patients' EWS following discharge from the CVICU to ward 42

**Laurence Walker** - Management of glucose level in Cardiovascular Intensive Care Unit patients at Auckland District Health Board

## Critical Care Medicine:

**Yan Chen** - AuStralaSian Evidence Translation in Traumatic Brain Injury

**Colin McArthur** - Short Period Incidence Study of Severe Acute Respiratory Infection (SPRINTSARI)

**Colin McArthur** - Australasian Management of Acute Liver Failure Investigation (AMALFI)



**Colin McArthur** - The Augmented vs. Routine approach to Giving Energy Trial: a randomised controlled trial. TARGET

**Colin McArthur** - A Phase 3, Placebo-Controlled, Randomized, Double-Blind, Multi-Center Study of LJPC-501 in Patients with Catecholamine-Resistant Hypotension (CRH)

#### Dermatology:

**Steven Lamb** – Australasian Psoriasis registry

#### Diabetes Service (Adult)

**Amy Liu** - Evaluation of a Type 1 Diabetes self-management education programme - Dose Adjustment For Normal Eating (DAFNE)

**Simon Speight** - The Three Great Pathologies of diabetic foot disease an Interpretative Phenomenological Analysis Study

**Sasini Wijayarathna** - Investigating Clinical Outcomes in Youth Diagnosed with Type 2 Diabetes in the Auckland Region, in Comparison to their Type 1 Counterparts

#### Diabetes and Endocrinology (Starship)

**Wayne Cutfield** - The effects of maternal preeclampsia on offspring metabolism

**Natasha Heather** - Defining the TSH reference interval on newborn screening blood spots

**Paul Hofman** - An Openlabel, Single Arm, Multicenter Study on the Efficacy, Safety, and Pharmacokinetics of Leuprolide Acetate 45 mg for Injectable Suspension Controlled Release in Subjects with Central (GonadotropinDependent) Precocious Puberty

**Paul Hofman** - NN8022-4179: Effect of liraglutide for weight management in paediatric subjects with Prader-Willi Syndrome

**Paul Hofman** - A multicenter, Phase 3, randomized, open label, active controlled, parallel group trial investigating the safety, tolerability, and efficacy of TransCon hGH administered once a week versus standard daily hGH replacement therapy

**Rosalie Hornung** - Diabetes transition service, 2006-2013

**Craig Jefferies** - The incidence and clinical features of adolescents with type 2 diabetes, Auckland 2007-2015

**Craig Jefferies** - THE QT AND CGMS STUDY: Evaluating QT interval in Type 1 DM with day to day variation in Glucose excursions on CGMS

**Craig Jefferies** - The prevalence of abnormalities in cardiac function in Duchenne Muscular Dystrophy boys without overt cardiac disease

#### Emergency (Adult):

**Nicole Chien** - Assess current practice of co-administering medication and blood components at ADHB

**Mark Le Fevre** - The effect of stress management training on stress, and heart rate variability in emergency medical teams

**Natalie Thorburn** - Sex Trafficking and Forced Prostitution in Aotearoa New Zealand

#### Emergency (Starship):

**Stuart Dalziel** - PREDICT Project 4: Understanding practice: factors that influence bronchiolitis management in Australasian paediatric acute care settings – a qualitative study using the Theoretical Domains Framework

**Stuart Dalziel** - Bell's Palsy in Children: A Multi-Centre, Randomised, Blinded, Placebo-Controlled Trial To Determine Whether Prednisolone Improves Recovery At 1 Month. (BELL-PIC)

**Stuart Dalziel** - Knowledge Translation in Australasian Paediatric Acute Care Settings: a multicentred, cluster, randomised controlled trial comparing a tailored, theory informed Knowledge Translation intervention versus passive dissemination of a bronchiolitis guideline

#### Gastroenterology (Adult):

**Mark Lane** - A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study of ABT-494 for the Induction of Symptomatic and Endoscopic Remission in Subjects with Moderately to Severely Active Crohn's Disease who have Inadequately Responded

**David Orr** - "Randomized Global Phase 3 Study to Evaluate the Impact on NASH with Fibrosis of Obeticholic Acid Treatment Clinical Study Protocol 747-303

**Maggie Ow** - The potential impact of gut microbiota on insulin sensitivity post-bariatric surgery

**Keith Petrie** - Can changing standard preparation to include an explanation of the Nocebo effect reduce side-effect reporting after a colonoscopy?

**David Rowbotham** - A multidisciplinary human study on the genetic, environmental and microbial interactions that cause Inflammatory Bowel Disease

#### Gastroenterology (Starship):

**Alicia Lim** - Transplant acquired allergies in the paediatric liver transplant cohort in New Zealand

#### General Medicine:

**Lynne Weir** - The experience of emotional stress following delirium: exploring the experience of delirium and its effects after discharge on the hospitalised older adult

#### Haematology (Adult):

**Shanee Chung** - Retrospective review of the use of DA induction protocol for older patients with acute myeloid leukaemia at first presentation at Auckland DHB



**Timothy Hawkins** - Phase 3 Randomized, Double-Blind, Placebo-Controlled, Multi-Center Study to Compare the Efficacy and Safety of Lenalidomide (CC5013) Plus R-CHOP Chemotherapy (R2-CHOP) Versus Placebo Plus

**Timothy Hawkins** - Adults with Acute Myeloid Leukaemia or High Risk Myelodysplastic Syndrome (AML 19)

**Kiri Mann** - Patient Experience of Living with Cancer Associated Thrombosis in New Zealand

**Paul Ockelford** - A Randomized, Open-Label Study to Evaluate the Pharmacokinetics and Safety of Recombinant Factor VIII Fc Fusion Protein (rFVIII-Fc; BII031) Manufactured at 15K Scale and at Different Vial Strengths in Previously Treated Subjects with Severe Hemophilia A

### Haematology/Oncology (Starship):

**Peter Bradbeer** - AALL1231: A Phase III Randomized Trial Investigating Bortezomib (NSC# 681239; IND# 58443) on a Modified Augmented BFM (ABFM) Backbone in Newly Diagnosed T-Lymphoblastic Leukemia (T-ALL) and T-Lymphoblastic Lymphoma (T-Ly)

**Peter Bradbeer** - Risk-stratified randomised Phase III testing of Blinatumomab (IND#117467, NSC#765986) in first relapse of childhood b-lymphoblastic leukaemia (B-ALL). AALL1331

**Nyree Cole** - COG AAML1331 A Phase III study for Patients with Newly Diagnosed Acute Promyelocytic Leukaemia (APL) using Arsenic Trioxide and All-Trans Retinoic Acid

**Stephen Laughton** - Incidence and Survival of Childhood Melanoma in Australia and New Zealand

**Tim Prestidge** - MK-3475: A Phase I/II Study of Pembrolizumab (MK-3475) in Children with advanced melanoma or a PD-L1 positive advanced, relapsed or refractory solid tumour or lymphoma (KEYNOTE-051). Keytruda Paediatric

**Tim Prestidge** - EuroNet-PHL-C2: Second International Inter-Group Study for Classical Hodgkin's Lymphoma in Children and Adolescents

**Lochie Teague** - A retrospective analysis of total body irradiation-based conditioning regimes in haematopoietic stem cell transplantation for paediatric patients with acute lymphoblastic leukaemia. (TRB in ALL)

**Mark Winstanley** - COG AOST1421: A Phase II Study of Human-Mouse Chimeric Anti-Disialoganglioside Monoclonal Antibody ch14.18 (Dinutuximab) in Combination with Sargramostim (GM-CSF) in Patients with Recurrent Osteosarcoma

**Mark Winstanley** - COG APEC14B1 Project Everychild: A registry, eligibility screening, biology and outcome study

**Mark Winstanley** - COG ARST1431: A Randomised Phase 3 Study of Vincristine, Dactinomycin, Cyclophosphamide (VAC) Alternating with Vincristine and Irinotecan (VI) Versus VAC/VI Plus Temsirolimus (TORI, Torisel, NSC# 683864, IND# 122782)

**Andrew Wood** - Finding new treatments for ALK +ve inflammatory myofibroblastic tumours (IMT Study)

He Kamaka Waiora:

**Anneka Anderson** - Maori and Pacific Whanau Experiences of Recurrent Hospitalisations with Rheumatic Fever and Unexpected Rheumatic Heart Disease in New Zealand

### Immunology (Starship):

**Jan Sinclair** - Peanuts, nuts and seeds - avoidance, ingestion and quality of life

### Infectious Diseases (Adult):

**Tim Cutfield** - How many patients with cellulitis are unnecessarily admitted to Auckland City Hospital?

**Mitzi Nisbet** - Audit of the management of multidrug resistant TB by the Respiratory Service ADHB

**Stephen Ritchie** - Can an Infographic convey knowledge about the harmful effects of antibiotic treatment to consumers?

**Mark Thomas** - Development and implementation of an app to support antimicrobial prescribing

### Infectious Diseases (Starship):

**Briar Peat** - Duration of benzathine penicillin prophylaxis for rheumatic fever

### LabPlus (Genetics, Immunology, Microbiology, Virology):

**Simeon Barker** - Laboratory-Clinician interaction survey

**Matthew Blakiston** - Case report: Community acquisition of a NDM producing *E. coli*

**Matthew Blakiston** - Retrospective review of the diagnostic performance of pleural fluid adenosine deaminase (pADA) for Tuberculous pleuritis in a low incidence setting

**Mary De Almeida** - Antimicrobial susceptibility and capsular serotypes of invasive and colonizing strains of Group B Streptococcus at Auckland City Hospital

**Maggie Kalev** - MEGBIO: Megakaryocyte and Platelet Biology study

**Rebecca Lucas-Roxburgh** - Early detection markers and risk factor analysis for Human papillomavirus associated oropharyngeal cancer

**Gary McAuliffe** - Mosquito-borne viral infections in returning travellers, Auckland 2014-2016

**Gary McAuliffe** - Rotavirus infection in the Auckland region following the introduction of Rotateq to the national immunisation schedule: impact on hospitalisations and laboratory implications

**Damian Pethica** - An Observational Investigation of Human Papillomavirus in disease of the prostate: with an initial exploratory phase in prostate cancer followed by a Case-Control study. PC\_001



**Fahimeh Rahnama** - The prevalence of human papillomavirus (HPV) infections in squamous cell carcinomas of the head and neck in an Auckland, New Zealand cohort

**Sally Roberts** - Detection of Macrolide and Fluoroquinolone Resistance in *Mycoplasma genitalium* strains causing infection in Auckland, New Zealand

**Clinton Turner** - A retrospective observational analysis of the prognostic significance of tumour infiltrating lymphocyte and macrophage subsets in the 7-year recurrence free survival of patients with meningioma in Auckland, New Zealand

#### Liver Transplant Unit:

**Ed Gane** - Multicenter, Randomized Phase 2B Study to Evaluate the Efficacy, Safety and Tolerability of OCR-002 (ornithine phenylacetate) in Hospitalized Patients with Cirrhosis and Associated Hyperammonemia with an Episode of Hepatic Encephalopathy STOP-HE Study

**Ed Gane** - A study of GS9620 in combination with Tenofovir Disoproxil Fumarate (TDF) for the Treatment of Participants with Chronic Hepatitis B and who are currently not on Treatment

**Ed Gane** - A study to evaluate the safety, antiviral activity and PK of ARB-001467 in subjects with CHB

**Ed Gane** - TARGET3D – An open label, multicentre, international pilot study of paritaprevir/ritonavir, ombitasvir, dasabuvir with or without ribavirin for people with recently acquired hepatitis C virus infection with or without HIV co-infection

**Ed Gane** - A Phase 2, Open-Label Study to Investigate the Safety and Efficacy of Sofosbuvir/Velpatasvir Fixed Dose Combination Administered for Four Weeks in Patients Infected with Chronic HCV in the Peri Operative Liver Transplantation Setting

**Ed Gane** - A Single-Arm, Open-Label, Multicenter Study to Evaluate the Safety and Efficacy of ABT-493/ABT-530 in Adult Post-Liver or Post-Renal Transplant Recipients with Chronic Hepatitis C Virus Genotype 1 – 6 Infection (MAGELLAN-2)

**Ed Gane** - Study of increasing doses of ARC-521 in volunteers and patients with Hepatitis B

**Ed Gane** - GS-US-402-3885: A Phase 1 Open-Label, Parallel-Group, Adaptive, Single-Dose Study to Evaluate the Pharmacokinetics and Pharmacodynamics of GS-9674 in Subjects with Normal and Impaired Hepatic Function

**Ed Gane** - A Phase 2, Randomized, Open Label Study to Evaluate the Efficacy and Safety of Tenofovir Alafenamide (TAF) versus Tenofovir Disoproxil Fumarate (TDF)-containing Regimens in Subjects with Chronic HBV Infection and Stage 2

**Ed Gane** - MK-3682 + MK-8408 in Subjects with Chronic Hepatitis C Virus (HCV) Infection

**Ed Gane** - A Phase 1a/1b, Dose-Ranging Study of the Safety, Tolerability and Pharmacokinetics of Orally Administered ABI-H0731 in Healthy Volunteers and Patients with Chronic Hepatitis B

**Ed Gane** - YP39364: A study of RO7049389 in healthy subjects and patients chronically infected with hepatitis B virus infection

#### Management:

**Vicente Gonzalez** – Building, Quake and People – A Serious Game Platform for Informing Life Saving Strategies

#### Mental Health (Adult):

**Tracey Forward** - Formal scoping audit at the Calder Centre Medical Practice regarding workforce development and service user needs

**Nicholas Hoeh** - A Pilot New Zealand Study of Rapid Transcranial Magnetic Stimulation (rTMS) in Treatment-Resistant Depression

**Bob Howe** - What is the current practice regarding mental health nurses' choice of site when administering long acting depot antipsychotic medication?

**Bob Howe** - What is the attitude of undergraduate nurse educators / lecturers 'preceptors to having specific mental health competencies within undergraduate student nurse education programmes?

**Joel Jackson** - Lithium monitoring in a community adult outpatient setting - a clinical audit - Metabolic Side Effects of Atypical Antipsychotics in Older Adults

**Suresh Muthukumaraswamy** - A randomised, double blind, active placebo-controlled crossover trial of an N-Methyl-D-Aspartate antagonist for patients with treatment resistant depression (KETDEP)

**Bruce Russell** - Development of a personalized model for predicting a response to first-line antipsychotic treatments for people with first episode psychosis

**Ian Soosay** - Audit of metabolic screening on the initiation of anti-psychotics

#### Mental Health (Starship):

**Elizabeth Du Preez** - Therapists' experiences of external group based family therapy supervision in Child and Adolescent Mental Health Services

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

**Susan Bigby** - Molecular analysis of squamous cell carcinoma of the vulva and the field of cancerization

**Michael Burling** - Change in the pattern of referrals for genetic counselling - impact of universal testing for high grade serous carcinoma of ovary, tube or peritoneal origin

**Prathima Chowdary** - Effect of warm humidified carbon dioxide on tissue oxygenation in open abdominal surgery - a pilot study



**Lois Eva** - Subtypes of stage IV ovarian cancer; response to treatment and patterns of disease recurrence

**Lois Eva** - A Phase II Randomised Clinical Trial of Mirena® ± Metformin ± Weight Loss Intervention in Patients with Early Stage Cancer of the Endometrium

**Katie Groom** - An audit of the use of antenatal corticosteroids prior to elective caesarean section from 35+0 weeks within the Auckland region

**Katie Groom** - A healthy life starts with a bioenergetically healthy placenta - the effect of maternal aPL antibodies and preeclamptic sera on mitochondria in the syncytiotrophoblast

**Katie Groom** - My Baby's Movements: a stepped wedge cluster randomised controlled trial to raise maternal awareness of fetal movements during pregnancy. MBM First Stage

### Neurology (Adult):

**Tracey Austin** - A critical analysis of current health service to patient communication in relation to "did not attend" rates at the Neurophysiology Service in Auckland

**Alan Barber** - Evaluation of the usefulness of the FABS algorithm at Auckland City Hospital with a retrospective clinical notes audit

**Alan Barber** - Extending the time for thrombolysis in emergency neurological deficits—Intra-arterial using intravenous tenecteplase

**Alan Barber** - Randomized, double-blind, Evaluation in secondary Stroke Prevention comparing the EfficaCy and safety of the oral Thrombin inhibitor dabigatran etexilate (110 mg or 150 mg, oral b.i.d.) versus acetylsalicylic acid

**Peter Bergin** - A Phase 2A, Randomized, Double-Blind, Placebo-Controlled, Multi-Center, Multiple-Dose Study to Assess the Safety and Efficacy of ZYN002 Administered as a Transdermal Gel to Patients with Partial Onset Seizures

**Emma Monigatti** - Assessment of muscle strength and the provision of motor prognosis in the Acute Stroke Unit

**Eoin Mulroy** - Diagnostic implications of septum pellucidum abnormalities on brain magnetic resonance imaging

**Luciana Pelosi** - High-resolution Nerve Ultrasound in CANVAS

**Barry Snow** - A Phase IIb, Randomised, Double-blind, Placebo-controlled, Dose-range Investigation of the Safety and Efficacy of NTCELL® [Immunoprotected (Alginate-Encapsulated) Porcine Choroid Plexus Cells for Xenotransplantation] in Patients with Parkinson's Disease

**Alice Theadom** - Prevalence and impact of Charcot-Marie-Tooth Disease in the Auckland Region of New Zealand

### Neurology (Starship):

**Gina O'Grady** - Microcephaly in New Zealand - Incorporating Zika virus into our diagnostic algorithm

**Claire Spooner** - Retrospective audit of children with cardiac lesions who present with stroke in hospital

### Neurosurgery:

**Abhinav Jain** - Outcome analysis of all patients diagnosed with an unruptured cerebral arteriovenous malformation (AVM) at Auckland City Hospital

### Newborn:

**Jane Alsweiler** - An audit on the incidence and management of hypoglycaemia in at-risk newborn babies on the postnatal wards at ACH

**Jane Alsweiler** - Postnatal effects of Late Preterm birth: the LaP study

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

**Frank Bloomfield** - Different approaches to moderate and late preterm nutrition: Determinants of feed tolerance, body composition and development. The DIAMOND Trial

**Keith Petrie** - Sources of Parental Stress in the Neonatal High Dependency Unit

### Northern Regional Genetics Service:

**Logan Walker** - The New Zealand Familial Breast Cancer Study (NZFBCS)

### Nursing:

**Shaun Grossberg** - Managing workplace bullying in the New Zealand nursing profession

**Karyn O'Keeffe** - Safer Nursing 24/7: Implementing a science-based approach for fatigue risk management in nursing

### Older People's Health:

**Martin Connolly** - Older people in retirement villages: unidentified need & intervention research

**Nicola Kayes** - Living well with Mild Cognitive Impairment (MCI)

**Nisa Mohan** - Adverse drug event hospital admissions in older people: The accuracy of hospital discharge coding data and the codes used for drug associated falls, bleeding and hypoglycaemia admissions

### Oncology (Adult):

**Reuben Broom** - An open label, multicentre extension study of trastuzumab emtansine administered as a single agent or in combination with other anticancer therapies on patients previously enrolled in a Genentech

**Sanjeev Deva** - ARX788 - A Phase 1, Multicenter, Open-label, Multiple Dose-escalation Study of ARX788, Intravenously Administered as a Single Agent in Subjects with Advanced Breast Cancer with Multiple Levels of HER2 Expression



**Sanjeev Deva** - A Phase 1A/1B, Open Label, Multiple Dose, Dose Escalation and Expansion Study to Investigate the Safety, Pharmacokinetics and Antitumor Activities of the anti-PD-1 Monoclonal Antibody BGB-A317

**Sanjeev Deva** - A Non-Randomised Open-Label Phase Ib Exploratory Study of TG02-treatment as Monotherapy or in Combination with Pembrolizumab to Assess Safety and Immune Activation in Patients with Locally recurrent Oncogenic RAS Exon 2 Mutant Rectal Cancer

**Michael Findlay** - A Randomised Phase III Double-Blind Placebo-Controlled Study of Regorafenib in Refractory Advanced Gastro-Oesophageal Cancer (AGOC)

**Peter Fong** - Phase Ib/II Trial of Pembrolizumab (MK-3475) Combination Therapies in Metastatic Castration-Resistant Prostate Cancer (mCRPC) (KEYNOTE-365)

**Peter Fong** - A Phase 3, Multicenter, Multinational, Randomized, Open-Label, Parallel-Arm Study of Avelumab (MSB0010718C) Plus Best Supportive Care Versus Best Supportive Care Alone as a Maintenance Treatment

**Vernon Harvey** - BHT datapoint collection of participants with untreated solid cancer for CID System automated software validation

**Chakiath Jose** - A Randomised phase II trial of Adaptive Image Guided standard or dose escalated tumour boost radiotherapy in the treatment of transitional cell carcinoma of the bladder

**Ben Lawrence** - Circulating Tumour DNA as a Biomarker of Pancreatic Cancer

**Ben Lawrence** - Napoli 2- Phase 2 study of nanoliposomal irinotecan (nal-IRI)-containing regimens versus nab-paclitaxel plus gemcitabine in patients with previously untreated, metastatic pancreatic adenocarcinoma

**Tom Love** - Measuring Health Related Quality of Life (HR-QoL) of patients with different stages of bowel cancer: In the New Zealand population using the EQ-5D questionnaire

**Andrew Macann** - Towards automated knowledge-based quality control for radiotherapy treatment planning

**Tasha Mackie** - Extensive stage small cell lung cancer: when is primary growth factor support as standard of care warranted in patients receiving doublet chemotherapy with carboplatin and etoposide?

**David Porter** - What was the incidence of pneumococcal infection in patients with a diagnosis of cancer known to the Auckland Oncology department who received chemotherapy for a 1-year period?

**Rosalie Stephens** - A phase II trial of immunisation with autologous dendritic cells loaded with NY-ESO-1 and alpha-galactosylceramide in patients with high-risk surgically resected stage II, III or IV melanoma. (MeIVac Phase II)

**Rosalie Stephens** - A Phase 3 Placebo-Controlled Study of Carboplatin/Paclitaxel with or without Concurrent and Continuation Maintenance Veliparib (PARP inhibitor) in Subjects with Previously Untreated Stages III or IV High-Grade Serous Epithelial

**Rosalie Stephens** - A Phase II study of Abemaciclib in Patients with Brain Metastases Secondary to Hormone Receptor Positive Breast Cancer, Non-small Cell Lung Cancer or Melanoma

**Richard Sullivan** - A Phase III, open-label, multicenter trial of avelumab (MSB0010718C) versus platinum-based doublet as a first-line treatment of recurrent or Stage IV PD-L1+ non-small-cell lung cancer

**Paul Thompson** - Follow-up to the AVANT study up to 8 and 10 years (median follow up) in patients with colon carcinoma

**Michelle Wilson** - INSIGHT: Investigating Strategies to Improve Clinical Trial Opportunities in Oncology in New Zealand

**Michelle Wilson** - Profiling of Oncology Patients as part of Clinical care and Research - PROSPER

## Ophthalmology:

**Jennifer Craig** - Evaluation of the impact of corneal grafting on the ocular surface and dry eye

**James McKelvie** - Analysis of corneal refractive power changes associated with accommodation, corneal biomechanics and cataract surgery

**Stuti Misra** - Assessing project and regression of diabetic peripheral neuropathy using in vivo confocal microscopy of cornea

**Rachael Niederer** - Predictive value of chest x-ray in the diagnosis of sarcoid uveitis

**Dianne Sharp** - CEDAR: Safety and Efficacy of Abicipar Pegol (AGN-150998) in patients with Neovascular Age-related Macular Degeneration. Phase 111 study

**David Squirrel** - Nurse Specialists for the Administration of Anti-Vascular Endothelial Growth Factor Intravitreal Injections

## ORL – Head and Neck Surgery:

**Bren Dorman** - CO2 laser cordectomy for treatment of early glottic cancer

**James Johnston** - Peritonsillar abscess (PTA): clinical characteristics, microbiology, drug exposures and outcomes of patients treated at Auckland City Hospital

**Hannah Linkhorn** - Incidence of foreign body in throat at Auckland DHB and the usefulness of CT imaging

**Anna Miles** - Communication, Swallowing and Airway Outcomes after Laryngectomy in New Zealand

## ORL (Starship):

**James Johnston** - Adenoidectomy for middle ear effusion: does it make a difference to outcomes?



**James Johnston** - Incidence and factors associated with revision adenoidectomy: a retrospective study

**James Johnston** - The nature of microbial involvement in the development of adenotonsillar hyperplasia. (TAAS)

**Silvia Marinone** - Castillo-Morales appliance therapy to reduce drooling: outcomes at Starship Hospital

**Andrew Martin** - Long-standing inhaled foreign bodies in children

**Nikki Mills** - Paediatric Nasogastric Tube Syndrome Study

**Michel Neeff** - The effect of soft tissue infections on device performance in adult cochlear implant recipient

**Vikranth Visvanathan** - Comparative audit of cochlear implantation in children with congenital cytomegalovirus infection versus GJB2 mutation

### Orthopaedics (Adult):

**Scott Bolam** - Tip apex distance in peri-trochanteric femur fractures in the Orthopaedic Department of Auckland City Hospital

**Jing Yi Liu** - Outcome audit of ankle fractures in diabetic patients in the ADHB

**Ailsa Wilson** - Retrospective review of revision total hip surgery using trabecular metal shells for management of pelvic discontinuity. Looking at the functional, clinical and radiological outcomes

### Orthopaedics (Starship):

**Matthew Boyle** - The effect of antibiotic timing on culture yield in paediatric musculoskeletal infection

**Julie Choise** - Development of a data-driven model to assist in Ankle Foot Orthosis prescription based on gait analysis data and clinical measurements

**Haemish Crawford** - Paediatric clavicular osteomyelitis  
**Dhanushka Liyanage** - The effectiveness of surgical lighting systems in operating rooms in orthopaedic surgery and how to improve the current lighting systems in place

**Justine McCallum** - Measuring the growth and nutrition of children with moderate to severe cerebral palsy in New Zealand

**Katherine Rooks** - An improved method for triaging Developmental Dysplasia of the Hip (DDH) consults at one tertiary paediatric centre

**Shiran Zhang** - Incidence and risk factors for septic arthritis of the elbow following internal fixation of paediatric distal humeral fractures

### Paediatrics:

**Sarah Appleton-Dyer** - Evaluation of Service Improvement for Alternative Education Students: Introduction of Navigators

**Sarah Louise Beer** - Snapshot survey of over and under nutrition at Starship Hospital

**Carol Chan** - The National Child Protection Alert System in New Zealand: a study of inter-rater reliability

**Kamani De Alwis** - Audit of pathways to admission for children residing in the North Shore Hospital catchment area

**Cameron Grant** - Randomised Control Study of Vitamin D to Prevent Acute Respiratory Infection Health Care Visits among children under 2 years old (PREVARID)

**Jessica Harper** - What Hinders and Enables Help Seeking Behaviour in Parents Transitioning from Pregnancy to Parenthood

**Jessica Ives** - An investigation of the techniques used by Starship staff when measuring lengths and weights of infants and children

**Alison Leversha** - Collective impact: Working together with children, whanau and their communities to improve health, development and school readiness among vulnerable children and families in the Glen Innes/Tamaki community

**Alison Leversha** - Comparing the Old with the New: Randomised controlled trial of three different treatments for mild-to-moderate impetigo in children

**Collette Muir** - Audit of Paediatric Neurology and Developmental Patients Requiring Transition to Adult Services

**Vivienne Walker** - What it means for young adults to be cared for in a paediatric setting: perspectives of patients and nurses

### Paediatric Intensive Care Unit:

**John Beca** - Paediatric Acute Respiratory Distress Syndrome Incidence and Epidemiology (PARDIE) Study

**John Beca** - Point Prevalence of Platelet Transfusions in Critically Ill Children (PT3)

**Anusha Ganeshalingham** - Fluid Bolus Therapy in Children: a survey of intensive care medical staff

**Fiona Miles** - Conversations about realistic expectations (CARE)

**Fiona Miles** - Whanau/Family perspectives on Conversations Around Realistic Expectations and treatment (CARE2) planning at Starship Children's Health

**Fiona Miles** - Moral Distress in healthcare professionals working in paediatric Intensive Care Units

**Caroline Radich** - Evaluation of a new critical care outreach (CCO) service in a tertiary children's hospital

**Claire Sherring** - VAP Prevention in PICU – Do bundles of care make a difference?

**Amanda Wevers** - Discharge Experiences from the Paediatric Intensive Care Unit

### Pain Services:

**Malcolm Johnston** - The effect of stress on pain sensitivity in people with irritable bowel syndrome

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



### Palliative Care (Adult):

**Anne O'Callaghan** - A Retrospective Audit of Outcomes of Cardiopulmonary Resuscitation at ADHB in 2014

**Andrew Old** - What are the end of life circumstances of patients dying under the care of the Auckland District Health Board?

**Celia Palmer** - Management Of Refractory Cancer Ascites: A randomised study of a temporary placed catheter for serial intermittent use versus a permanent placed catheter (Rocket®) for continuous drainage of malignant ascites in cancer patients

**Jackie Robinson** - How are ADHB services used by patients in their last 12 months of life?

**Lisa Williams** - Helping NZ family/whaanau/fono caregivers who provide end of life care

### Palliative Care (Starship):

**Daniela Reyes** - An audit of service demands of the Starship palliative care team at Auckland City Hospital

### Physiology

**Kevin Ellyett** - Incidence of flow limitation during exercise in healthy adolescent females who experience dyspnoea on exertion

### Public Health:

**Emmanuel Badu** - The burden of tuberculosis among Sub-Saharan Africans in New Zealand: The role of individual, social, economic and structural factors

**Karen Bartholomew** - Auckland and Waitemata DHB bariatric surgery referral audit

**Karen Bartholomew** - Primary HPV cervical screening self-sampling feasibility study: Acceptability for Auckland DHB Maori women

**Ellie Brooking** - Navigating patient centred care within the legislative framework of directly observed therapy (DOT)

**Penny Neave** - An epidemiological review of imported infectious diseases notifications in the Auckland Region

### Radiology (Adult):

**Colleen Bergin** - The hypoechoic rim sign: An ultrasound finding in endometritis

**Andrew Holden** - Type Ia Endoleak after Nellix EVAS: Imaging observations and implication for follow up, early detection and treatment (TIEN-study)

**Andrew Holden** - NELLIX Ch-EVAS AUDIT 2 - Assessment of stent deformity in patients who have received Chimney Endovascular Aneurysm Sealing (Ch-EVAS) with the Nellix device

**Andrew Holden** - A randomized trial coMParing the ELUVIA™ dRug-eluting stent versus Zilver® PTX® stent for treatment of superficial femoral and/or proximal popliteal arteries

**Andrew Holden** - The DESappear Study: Drug Eluting Scaffold with an absorbable platform for primary lower extremity arterial revascularisation

**Andrew Holden** - Safety and Feasibility of the Shockwave Lithoplasty® System for the Treatment of Peripheral Vascular Stenosis

**Andrew Holden** - Randomized study of the Shockwave Medical Peripheral Lithoplasty System followed by drug-coated balloon (DCB) versus DCB with standard balloon pre-dilatation in moderate and severely calcified femoropopliteal arteries

**Andrew Holden** - A Randomized Trial to confirm the Safety and Effectiveness of Chocolate Touch Paclitaxel Coated PTA Balloon Catheter, in Above the Knee Lesions

**Andrew Holden** - Prospective Study for the Treatment of Atherosclerotic Lesions in the Superficial Femoral Artery (SFA) and/or Popliteal Artery using the Serranator Device: PRELUDE Study: PRELUDE Study

**Colette Kennedy** - Validation of elastography in HCV patients: comparison of 2DSWE.GE with transient elastography

**Greg Tarr** - Retrospective assessment of model imaging markers in the evaluation of Intra-cerebral haemorrhage

**Greg Tarr** - Audit of CT and MR angiographic measurements of intracerebral aneurysms

**Greg Tarr** - Culture yield of percutaneous biopsy in spondylodiscitis at Auckland District Health Board

### Radiology (Starship):

**Raylene Rao** - What is the radiation dose delivered by common imaging modalities used for investigation of non-accidental injury in the Auckland District Health Board?

### Renal Services (Adult):

**Animesh Chatterjee** - Predictors of intravenous calcium replacement and recurrent hyperparathyroidism following parathyroidectomy in end stage renal failure patients

**Ian Dittmer** - Treatment of Proteinuria Due to Treatment Resistant or Treatment Intolerant Idiopathic Focal Segmental Glomerulosclerosis: A 2 Part Prospective Study of H.P. Acthar® Gel (PODOCYTE)

**Sandra Hay** - What are the experiences of dialysis nurses in New Zealand on discussing advance care planning and death and dying with their patients?

**Helen Pilmore** - Canadian-Australasian RCT - Screening Kidney Transplant Recipients (CARSK)

**David Semple** - Dialysis vascular access outcomes after recurrent fistuloplasty

**Reuben Wilson** - Peritoneal dialysis catheter outcomes audit, Auckland City Hospital

**Fei Xiong** - A retrospective review of patients with biopsy proven lupus nephritis between 2004 and 2013



### Renal Services (Starship):

**Derisha Naicker** - Kids exploring expectations, perspectives and information about Transplant

### Respiratory Services (Adult):

**Sandra Hotu** - Understanding Maori preferences for healthcare services: a qualitative study involving Maori with chronic airways disease and their whaanau

**John Kolbe** - A Two Part, Phase I/IIa Assessment of Citramel: Part 2 - A Double-blind Randomised Placebo-controlled Cross-Over Study of the Effects of Citramel on the Signs and Symptoms of Cystic Fibrosis

**John Kolbe** - Phase 1a/1b Trial of LTI-01 (Single Chain Urokinase, scuPA) Intrapleural Fibrinolytic Therapy (IPFT) in Patients with Complicated Parapneumonic Effusions or Empyema

**John Kolbe** - Multicenter, Dose-Ranging Study To Assess The Efficacy And Safety Of Mstt1041a In Patients With Uncontrolled Severe Asthma

**Conroy Wong** - Anti-inflammatory effects of oral and transdermal clonidine in bronchiectasis

### Respiratory (Starship):

**Alana Ainsworth** - A retrospective review of the current transition process of patients with non-Cystic Fibrosis bronchiectasis from the Starship Bronchiectasis Clinic to adult medical services

**Mirjana Jaksic** - Retinol-binding protein in urine, an indicator of early kidney damage in children with Cystic Fibrosis

**David McNamara** - Pilot Study of Humidified High Flow Air via Nasal Cannulae (HHF) During Sleep for Children and Young People with Cystic Fibrosis (CF)

**Naveen Pillarisetti** - Airway microbiome in two acute paediatric respiratory conditions: bronchiolitis and community acquired pneumonia

**James Revie** - AirSpiral and Tracheostomy connector usability with myAIRVO 2

### Rheumatology (Adult):

**Nicola Dalbeth** - A randomized controlled trial of intensive urate-lowering therapy for bone erosion in tophaceous gout

**Keith Rome** - Foot and ankle characteristics in people with systemic lupus erythematosus

### Rheumatology (Adult):

**Anthony Concannon** - The incidence and severity of Juvenile Idiopathic Arthritis in Maori and Pacific Island children

**Eoghan Rutledge** - Transition to Adult Rheumatology Services (TARS): A Qualitative & Quantitative Evaluation of Current Attitudes of Patients with Rheumatological Diagnoses to Transitional Care in New Zealand

### Sexual Health Services:

**Sunita Azariah** - A large increase in cases of infectious syphilis presenting to Auckland Sexual Health Service in 2015

**Sunita Azariah** - The NZPrEP study: a demonstration project of HIV pre-exposure prophylaxis in Aotearoa, NZ

### Surgery (Adult):

**Grant Beban** - Outcomes of patients referred for bariatric surgery

**Ian Bissett** - Predicting prolonged return to normal bowel function after elective colorectal surgery

**Ian Bissett** - A clinical audit of nursing care practice and patient experience in the first 24 hours post radial artery sheath removal

**Ian Bissett** - A randomized double-blind placebo controlled trial of prucalopride to reduce the duration of postoperative ileus in patients undergoing elective colorectal surgery

**John Windsor** - A comprehensive pain assessment tool (COMPAT) for chronic pancreatitis

**John Windsor** - Developing and evaluating techniques for peripheral transvenous cannulation of the thoracic duct to study the role of lymph in acute pancreatitis and critical illness - Objective 1 Percutaneous cannulation of the thoracic duct

### Surgery (Starship):

**Emily Smith** - Audit of Tertiary Trauma Survey

**Kiarash Taghavi** - Hirschsprung's disease in New Zealand: geographical and ethnic distribution

### Trauma Service

**Yee-Shynn Ooi** - Time to definitive care in trauma

**Ben Wheeler** - Incidental findings from 1 year of trauma related imaging: a prospective study

**Ben Wheeler** - Is there evidence of ethnic disparities in trauma outcomes at a New Zealand Level 1 Trauma Centre?

### Urology:

**Scott Bolam** - The effectiveness of BCG and interferon against non-muscle invasive bladder cancer: a New Zealand perspective: five year follow up

### Vascular Service:

**Andrew Hill** - A randomized multicentre trial of outcomes of brachiobasilic fistula one stage vs two stage procedure





# PUBLICATIONS



## RESEARCH LINKS MENTAL DISTRESS TO SIGNIFICANTLY INCREASED RISK OF DEATH IN HEART PATIENTS



Professor Ralph Stewart

Stewart, R.A.H., Colquhoun, D.M., Marschner, S.L., Kirby, A.C., Simes, J., Nestel, P.J., Glozier, N., O'Neill, A., Oldenburg, B., White, H.D., Tonkin, A.M., on behalf of the LIPID Study Investigators. *Persistent psychological distress and mortality in patients with stable coronary artery disease. Heart, June 2017 doi: 10.1136/heartjnl-2017-311610*

- In the top 5% of all research outputs scored by Altmetric.com
- Among the highest-scoring outputs from this source (#31 of 2,653)
- High Attention Score compared to outputs of the same age (98th percentile)
- High Attention Score compared to outputs of the same age and source (99th percentile)
- (Altmetric.com tracks a range of sources to capture conversations about scholarly research online)

A team including Auckland City Hospital cardiologist Professor Ralph Stewart has shown persistent, moderate-to-severe mental distress is linked to a significantly heightened risk of death among patients with stable coronary heart disease.

Many studies have linked anxiety/depression with an increased risk of heart attack/stroke, but these have mostly been done fairly soon after the event, and based on a single assessment, say the researchers. And the definitions of chronic/persistent stress in other longer-term studies have varied widely. In a bid to get around some of these issues Professor Stewart and an international team of researchers, looked at the association between occasional or persistent mental distress and the risk of death in a research cohort of 950 people aged between 31 and 74 with stable coronary heart disease (the LIPID Study).

To gauge levels of mental distress participants filled in a validated general health questionnaire (GHQ30) at six months, 1, 2, and 4 years after their heart attack or hospital admission for unstable angina. Distress was graded according to severity and the length of time it lasted at each of the assessments: never distressed; occasional (of any severity); persistent mild distress on three or more occasions; and persistent moderate distress on three or more occasions. The participants' health and survival were then tracked for an average of 12 years. During the monitoring period, 398 people died from all causes and 199 died from cardiovascular disease.

The questionnaire responses showed that 587 (62%) of participants said they had not been distressed at any of the assessments, while around one in four (27%) said they had experienced occasional distress of any severity. Around one in 10 (8%) said they had experienced persistent mild distress. Only 35 people (3.7%) complained of persistent moderate distress. Significantly however, people in this last group were nearly four times as likely to have died of cardiovascular disease and nearly three times as likely to

have died from any cause as those who said they had not been distressed at any of the assessments. No such associations were observed for those who said they had experienced persistent mild distress or those who said they had only experienced it occasionally.

The findings held true even after taking account of other potentially influential risk factors.

This is an observational study, so no firm conclusions can be drawn about cause and effect, added to which confining the assessments to a period of four years might have underestimated the true impact of persistent distress, caution the researchers.

Nevertheless, they conclude that the increase in risk of death was substantial. "These findings suggest that in patients with stable [coronary heart disease], long term mortality risk is related to the cumulative burden of psychological distress."

In a linked editorial in the latest issue of the journal *Heart*, Dr Gjin Ndrepepa of the Technical University, Munich, Germany, points out that the GHQ-30 is no longer widely used and highlights that the researchers did not account for the impact of traumatic life events or socioeconomic factors. However, he adds that mental distress activates the sympathetic nervous system and boosts stress hormone levels, which, if persistent, can produce potentially harmful physiological changes, some of which may be permanent. Distress can also prompt unhealthy behaviours.

"The possibility is real that [coronary heart disease] itself is the source of distress and a determinant of poor outcome," he writes, adding that health professionals should include screening for mental distress a routine part of the care provided to patients with coronary heart disease.



- Abtan, J., Steg, P.G., Stone, G.W., Mahaffey, K.W., Gibson, C.M., Hamm, C.W., Price, M.J., Abnoui, F., Prats, J., Deliaris, E.N., White, H.D., Harrington, R.A., Bhatt, D.L. (2016) Efficacy and Safety of Cangrelor in Preventing Periprocedural Complications in Patients With Stable Angina and Acute Coronary Syndromes Undergoing Percutaneous Coronary Intervention: The CHAMPION PHOENIX Trial. *JACC: Cardiovascular Interventions*, 9 (18) pp. 1905- 1913
- Ackerley, S.J., Byblow, W.D., Barber, P.A., MacDonald, H., McIntyre-Robinson, A., Stinear, C.M. (2016) Primed physical therapy enhances recovery of upper limb function in chronic stroke patients. *Neurorehabilitation and Neural Repair*, 30 (4) pp. 319- 348
- Adamo, M., Ariotti, S., Costa, F., Curello, S., Moschovitis, A., de Vries, T., White, H.D., Windecker, S., Valgimigli, M. (2016) Phosphate- or Citrate-Buffered Tirofiban Versus Unfractionated Heparin and its Impact on Thrombocytopenia and Clinical Outcomes in Patients With Acute Coronary Syndrome: A Post Hoc Analysis From the PRISM Trial. *JACC: Cardiovascular Interventions*, 9 (16) pp. 1667 – 1676
- Åkerblom, A., Clare, R.M., Lokhnygina, Y., Wallentin, L., Held, C., Van De Werf, F., Moliterno, D.J., Patel, U.D., Leonardi, S., Armstrong, P.W., Harrington, R.A., White, H.D., Aylward, P.E., Mahaffey, K.W., Tricoci, P. (2016) Albuminuria and cardiovascular events in patients with acute coronary syndromes: Results from the TRACER trial. *American Heart Journal*, 178 pp. 1 – 8
- Alexander, H., Bartlett, A., Poole, G. (2016) Reporting risk-adjusted outcomes for surgical procedures in New Zealand. *New Zealand Medical Journal*, 129 (1430) pp. 96-97
- Alla, S., Pearson, J.F., Taylor, B.V., Roxburgh, R., Clarke, G., Miller, D.H., Richardson, A., Abernethy, D.A., Willoughby, E., Sabel, C.E., Mason, D.F. (2016) An investigation of the relationship between latitude and multiple sclerosis severity in New Zealand. *Multiple Sclerosis*, 22 (5) pp. 705- 707
- Alyami, M., Alyami, H., Sundram, F., Cheung, G., Haarhoff, B.A., Lyndon, M.P., Hill, A.G. (2016) Enhancing suicide risk assessment: A novel visual metaphor learning tool. *Australasian Psychiatry*, 24 (6) pp. 608 – 614
- Ameratunga, R., Bartlett, A., McCall, J., Steele, R., Woon, S.T., Katelaris, C.H. (2016) Hereditary Angioedema as a Metabolic Liver Disorder: Novel Therapeutic Options and Prospects for Cure. *Frontiers of Immunology*, 7, p. 547
- Ameratunga, R., Crooks, C., Simmons, G., Woon, S.T. (2016) Health Risks and Adverse Reactions to Functional Foods. *Critical Reviews in Food Science and Nutrition*, 56 (2) pp. 318-325
- Ameratunga, R., Gillis, D., Steele, R. (2016) Diagnostic criteria for common variable immunodeficiency disorders. *Journal of Allergy and Clinical Immunology: In Practice*, 4 (5) pp. 1017-1018
- Ameratunga, R., Steele, R., Jordan, A., Preece, K., Barker, R., Brewerton, M., Lindsay, K., Sinclair, J., Storey, P., Woon, S.T. (2016) The case for a national service for primary immune deficiency disorders in New Zealand. *New Zealand Medical Journal*, 129 (1436) pp. 75-90
- Ameratunga, R., Storey, P., Barker, R., Jordan, A., Koopmans, W., Woon, S.T. (2016) Application of diagnostic and treatment criteria for common variable immunodeficiency disorder. *Expert Reviews in Clinical Immunology*, 12 (3) pp. 257-266
- Anderson, M.A., Akshintala, V et al incl. Windsor, J. (2016) Mechanism, assessment and management of pain in chronic pancreatitis: Recommendations of a multidisciplinary study group. *Pancreatology*, 16 (1) pp. 83-94
- Anderson, N.H., Sadler, L.C., McKinlay, C.J.D., McCowan, L.M.E. (2016) INTERGROWTH-21st vs customized birthweight standards for identification of perinatal mortality and morbidity. *American Journal of Obstetrics and Gynecology*, 214 (4) pp. 509.e1- 509.e7
- Anderson, Y.C., Wynter, L.E., Butler, M.S., Grant, C.C., Stewart, J.M., Cave, T.L., Wild, C.E.K., Derraik, J.G.B., Cutfield, W.S., Hofman, P.L. (2016) Dietary intake and eating behaviours of obese New Zealand children and adolescents enrolled in a community-based intervention programme. *PLoS ONE*, 11 (11) art. no. e0166969
- Angeli, T.R., Du, P., Midgley, D., Sathar, S., Paskaranandavadivel, N., Lahr, C., Abell, T.L., Cheng, L.K., O'Grady, G. (2016) Analysis of high-frequency gastric electrical stimulation protocols on slow wave activity in patients with gastroparesis. *Neuromodulation*, 19 (8) pp. 864- 871
- Ansaloni, L., et al incl. Civil, I. (2016) 2016 WSES guidelines on acute calculous cholecystitis. *World Journal of Emergency Surgery*, 11 (1) art. no. 25
- Armaganijan, L.V., Alexander, K.P., Huang, Z., Tricoci, P., Held, C., Van De Werf, F., Armstrong, P.W., Aylward, P.E., White, H.D., Moliterno, D.J., Wallentin, L., Chen, E., Harrington, R.A., Strony, J., Mahaffey, K.W., Lopes, R.D. (2016) Effect of age on efficacy and safety of vorapaxar in patients with non-ST-segment elevation acute coronary syndrome: Insights from the Thrombin Receptor Antagonist for Clinical Event Reduction in Acute Coronary Syndrome (TRACER) trial. *American Heart Journal*, 178 pp. 176 – 184
- Asrani, V.M., Yoon, H.D., Megill, R.D., Windsor, J.A., Petrov, M.S. (2016) Interventions That Affect Gastrointestinal Motility in Hospitalized Adult Patients: A Systematic Review and Meta-Analysis of Double-Blind Placebo-Controlled Randomized Trials. *Medicine*, 95 (5) e2463
- Auerbach, M., Cole, J., Violano, P., Roney, L., Doherty, C., Shepherd, M., MacKinnon, R. (2016) An International Interprofessional Study of Mental Models and Factors Delaying Neuroimaging of Critically Head-Injured Children Presenting to Emergency Departments. *Pediatric Emergency Care*, DOI:10.1097/PEC.0000000000000915
- Azevedo, P.M., Merriman, T.R., Topless, R.K., Wilson, N.J., Crengle, S., Lennon, D.R. (2016) Association study involving polymorphisms in IL-6, IL-1RA, and CTLA4 genes and rheumatic heart disease in New Zealand population of Māori and Pacific ancestry. *Cytokine*, 85 pp. 201 – 206



Bagai, A., Huang, Z., Lokhnygina, Y., Harrington, R.A., Armstrong, P.W., Strony, J., White, H., Leonardi, S., Held, C., Van de Werf, F., Wallentin, L., Tricoci, P., Mahaffey, K.W. (2016) Magnitude of troponin elevation and long-term clinical outcomes in acute coronary syndrome patients treated with and without revascularization. *TRACER. Circulation: Cardiovascular Interventions*, 8 (6) e002314

Bagnall, R.D., Weintraub, R.G., Ingles, J., Dufflou, J., Yeates, L., Lam, L., Davis, A.M., Thompson, T., Connell, V., Wallace, J., Naylor, C., Crawford, J., Love, D.R., Hallam, L., White, J., Lawrence, C., Lynch, M., Morgan, N., James, P., Du Sart, D., Puranik, R., Langlois, N., Vohra, J., Winship, I., Atherton, J., McGaughran, J., Skinner, J.R., Semsarian, C. (2016) A prospective study of sudden cardiac death among children and young adults. *New England Journal of Medicine*, 374 (25) pp. 2441 – 2452

Baker, P.A. (2016) Barotrauma risk with direct connection of oxygen tubing to an endotracheal tube. *Anesthesia and Analgesia*, 123 (6) p. 1642

Baker, P.A., Feinleib, J., O'Sullivan, E.P. (2016) Is it time for airway management education to be mandatory? *British Journal of Anaesthesia*, 117 pp. i13-i16

Baker, P.A., O'Sullivan, E.P., Kristensen, M.S., Lockey, D. (2016) The great airway debate: Is the scalpel mightier than the cannula? *British Journal of Anaesthesia*, 117 pp. i17-i19

Baker, P.A., Weller, J.M., Baker, M.J., Hounsell, G.L., Scott, J., Gardiner, P.J., Thompson, J.M.D. (2016) Evaluating the ORSIM<sup>®</sup> simulator for assessment of anaesthetists' skills in flexible bronchoscopy: Aspects of validity and reliability. *British Journal of Anaesthesia*, 117, i87-i91

Barber, P.A., Krishnamurthi, R., Parag, V., Anderson, N.E., Ranta, A., Kilfoyle, D., Wong, E., Green, G., Arroll, B., Bennett, D.A., Witt, E., Rush, E., Minsun Suh, F., Theadom, A., Rathnasabapathy, Y., Te Ao, B., Parmar, P., Feigin, V.L. (2016) Incidence of Transient Ischemic Attack in Auckland, New Zealand, in 2011 to 2012. *Stroke*, 47 (9) pp. 2183- 2188

Barker-Collo, S., Krishnamurthi, R., Feigin, V., Jones, A., Theadom, A., Barber, P.A., Starkey, N., McPherson, K., Rush, E., Bennett, D. (2016) Neuropsychological Outcome and its Predictors Across the First Year after Ischaemic Stroke. *Brain Impairment*, 17 (2) pp. 111 – 122

Barra, S., Looi, K.-L., Gajendragadkar, P.R., Khan, F.Z., Virdee, M., Agarwal, S. (2016) Applicability of a risk score for prediction of the long-term benefit of the implantable cardioverter defibrillator in patients receiving cardiac resynchronization therapy. *Europace*, 18 (8) pp. 1187 – 1193

Barreto, S.G., Windsor, J.A. (2016) Redefining early gastric cancer. *Surgical Endoscopy and Other Interventional Techniques*, 30 (1) pp. 24- 37.

Barreto, S.G., Windsor, J.A. (2016) Justifying vein resection with pancreatoduodenectomy. *The Lancet Oncology*, 17 (3) pp. e118 - e124

Barreto, S.G., Windsor, J.A. (2016) Justifying vein resection with pancreatoduodenectomy- Author's reply. *The Lancet Oncology*, 17 (5) p. e178

Barrington, S.F., Kirkwood, A.A., Franceschetto, A., Fulham, M.J., Roberts, T.H., Almquist, H., Brun, E., Hjorthaug, K., Viney, Z.N., Pike, L.C., Federico, M., Luminari, S., Radford, J., Trotman, J., Fosså, A., Berkahn, L., Molin, D., D'Amore, F., Sinclair, D.A., Smith, P., O'Doherty, M.J., Stevens, L., Johnson, P.W. (2016) PET-CT for staging and early response: Results from the Response-Adapted Therapy in Advanced Hodgkin Lymphoma study. *Blood*, 127 (12) pp. 1531- 1538

Battin, M., Sadler, L., Masson, V., Farquhar, C. (2016) Neonatal encephalopathy in New Zealand: Demographics and clinical outcome. *Journal of Paediatrics and Child Health*, 52 (6) pp. 632 - 636

Bean, D.J., Johnson, M.H., Heiss-Dunlop, W., Kydd, R.R. (2016) Factors associated with disability and sick leave in early complex regional pain syndrome type-1. *Clinical Journal of Pain*, 32 (2) pp. 130- 138

Beier, S., Ormiston, J.A., Webster, M.W., Cater, J.E., Norris, S.E., Medrano-Gracia, P., Young, A.A., Cowan, B.R. (2016) Dynamically scaled phantom phase contrast MRI compared to true-scale computational modeling of coronary artery flow. *Journal of Magnetic Resonance Imaging*, 44 (4) pp. 983 – 992

Beier, S., Ormiston, J.A., Webster, M., Cater, J., Norris, S., Medrano-Gracia, P., Young, A., Cowan, B. (2016) Impact of bifurcation angle and other anatomical characteristics on blood flow – A computational study of non-stented and stented coronary arteries. *Journal of Biomechanics*, 49 (9) pp. 1570- 1582

Beliaev, A.M., Allen, S.J., Milsom, P., Nand, P., Smith, W.M., Bergin, C.J. (2016) Low-dose erythropoietin treatment is not associated with clinical benefits in severely anaemic Jehovah's Witnesses: a plea for a change. *Blood Transfusion*, 2016 Nov 15:1-10

Beliaev, A.M., Booth, M. (2016) An association between conversion of laparoscopic cholecystectomy to open surgery and intra-abdominal organ injury. *ANZ Journal of Surgery*, 86 (7-8) p. 625

Bellomo, R. et al for the Randomized Evaluation of Normal Versus Augmented Level of Replacement Therapy Study Investigators; Australian and New Zealand Intensive Care Society Clinical Trials Group, incl. McGuinness, S., Parke, R., McArthur, C., Newby, L. (2016) Epidemiology of RBC Transfusions in Patients With Severe Acute Kidney Injury: Analysis From the Randomized Evaluation of Normal Versus Augmented Level Study. *Critical Care Medicine*, 44 (5) pp. 892-900

Bellomo, R. et al for the RENAL study investigators; Australian and New Zealand Intensive Care Clinical Trials Group, incl. McGuinness, S., McArthur, C. (2016) Femoral Access and Delivery of Continuous Renal Replacement Therapy Dose. *Blood Purification*, 41 (1-3) pp. 11-17

Benatar, J., Armstrong, N., Cameron, D., Harbour, E. (2016) Improving Engagement with Healthcare Using a Whanau Ora Approach- a Case Report. *Heart, Lung and Circulation*, 25 S35

Benatar, J.R., Doolan Noble, F., McLachlan, A. (2016) Cardiac rehabilitation in New Zealand-moving forward. *New Zealand Medical Journal*, 129 (1435) ISSN 1175-8716



- Berry, M.J., Jaquiere, A.L., Oliver, M.H., Harding, J.E., Bloomfield, F.H. (2016) Neonatal milk supplementation in lambs has persistent effects on growth and metabolic function that differ by sex and gestational age. *British Journal of Nutrition*, 116 (11) pp. 1912- 1925
- Berry, R., Miyagawa, T., Paskaranandavivel, N., Du, P., Angeli, T.R., Trew, M.L., Windsor, J.A., Imai, Y., O'Grady, G., Cheng, L.K. (2016) Functional physiology of the human terminal antral contraction defined by high-resolution mapping and computational modelling. *American Journal of Physiology – Gastrointestinal and Liver Physiology*, 311 (5) G895- 902
- Bevan, M.G., Asrani, V.M., Bharmal, S., Wu, L.M., Windsor, J.A., Petrov, M.S. (2016) Incidence and predictors of oral feeding intolerance in acute pancreatitis: A systematic review, meta-analysis, and meta-regression. *Clinical Nutrition*. <http://dx.doi.org/10.1016/j.clnu.2016.06.006>
- Best, E.J., Walls, T., Souter, M., Neeff, M., Anderson, T., Salkeld, L., Ahmad, Z., Mahadevan, M., Walker, C., Murdoch, D., Mills, N (2016) Pneumococcal vaccine impact on otitis media microbiology: A New Zealand cohort study before and after the introduction of PHiD-CV10 vaccine. *Vaccine*, 34 (33) pp. 3840 – 3847
- Bigby, S.M., Eva, L.J., Fong, K.L., Jones, R.W. (2016) The Natural History of Vulvar Intraepithelial Neoplasia, Differentiated Type: Evidence for Progression and Diagnostic Challenges. *International Journal of Gynaecological Pathology*, 35 (6) pp. 574 – 584
- Bird, A.L., Grant, C.C., Barbara, D.K., Mohal, J., Atatoa-Carr, P.E., Wise, M.R., Inskip, H., Miyahara, M., Morton, S.M. (2016) Maternal health in pregnancy and associations with adverse birth outcomes: Evidence from Growing Up in New Zealand. *Australian and New Zealand Journal of Obstetrics and Gynaecology*, EPub 26 Oct 2016
- Bishop, K.S., Han, D.Y., Karunasinghe, N., Goudie, M., Masters, J.G., Ferguson, L.R. (2016) An examination of clinical differences between carriers and non-carriers of chromosome 8q24 risk alleles in a New Zealand Caucasian population with prostate cancer. *PeerJ*, 2016 (3) art. no. 1731
- Bissett, I. (2016) How much can we achieve with simulation? *New Zealand Medical Journal*, 129 (1443) pp. 6 – 8
- Biswas, K., Chang, A., Hoggard, M., Radcliff, F.J., Jiang, Y., Taylor, M.W., Darveau, R., Douglas, R.G. (2016) Toll-like receptor activation by sino-nasal mucus in chronic rhinosinusitis. *Rhinology*. 55 (1) pp. 59 – 69
- Bobba, S., Di Girolamo, N., Mills, R., Daniell, M., Chan, E., Harkin, D.G., Cronin, B.G., Crawford, G., McGhee, C., Watson, S. (2016) Nature and incidence of severe limbal stem cell deficiency in Australia and New Zealand. *Clinical and Experimental Ophthalmology*, 45 (2) pp. 174- 181
- Boisen, S., Krägeloh, C., Shepherd, D., Ryan, C., Masters, J., Osborne, S., MacLeod, R.D., Gray, M., Keogh, J.W. (2016) A cross-sectional comparison of quality of life between physically active and underactive older men with prostate cancer. *Journal of Aging and Physical Activity*, 24 (4) pp. 642 – 648
- Bolland, M.J., Grey, A., Rowbotham, D.S. (2016) Outcomes of bone density measurements in coeliac disease. *New Zealand Medical Journal*, 129 pp. 40-44
- Bollard, T., Maubach, N., Walker, N., Ni Mhurchu, C. (2016) Effects of plain packaging, warning labels, and taxes on young people's predicted sugar-sweetened beverage preferences: An experimental study. *International Journal of Behavioral Nutrition and Physical Activity*, 13 (1) art. no. 95
- Bonaca, M.P., O'Malley, R.G., Jarolim, P., Scirica, B.M., Murphy, S.A., Conrad, M.J., Cannon, C.P., White, H.D., Braunwald, E., Morrow, D., Sabatine, M.C. (2016) Serial Cardiac Troponin Measured Using a High-Sensitivity Assay in Stable Patients With Ischemic Heart Disease. *Research Letter. Journal of the American College of Cardiology*, 68 (3) pp. 322- 323
- Borland, M.L., Shepherd, M. (2016) Quality in paediatric emergency medicine: Measurement and reporting. *Journal of Paediatrics and Child Health*, 52 (2) pp. 131 – 136
- Boyle, M.J., Lirola, J.F., Hogue, G.D., Yen, Y.-M., Millis, M.B., Kim, Y.-J. (2016) The alpha angle as a predictor of contralateral slipped capital femoral epiphysis. *Journal of Children's Orthopaedics*, 10 (3) pp. 201- 207
- Bradley, B.D., Light, J.D., Ebonyi, A.O., N'Jai, P.C., Ideh, R.C., Ebruke, B.E., Nyassi, E., Peel, D., Howie, S.R.C. (2016) Implementation and 8-year follow-up of an uninterrupted oxygen supply system in a hospital in The Gambia. *International Journal of Tuberculosis and Lung Disease*, 20 (8) pp. 1130- 1134
- Broderick, A.J. (2016) Radical-7 pulse CO-oximetry - A reply. *Anaesthesia*, 71 (5) p. 605
- Brown, J., Crawford, T.J., Alsweiler, J., Crowther, C.A. (2016) Dietary supplementation with myo-inositol in women during pregnancy for treating gestational diabetes. *Cochrane Database of Systematic Reviews*, 2016 Sep 7;9:CD012048
- Brown, M., Dalziel, S.R., Herd, E., Johnson, K., Wong She, R., Shepherd, M. (2016) A randomized controlled study of silver-based burns dressing in a pediatric emergency department. *Journal of Burn Care and Research*, 37 (4) pp. e340- e347
- Brown, S.G.A., Ball, E.L., Perrin, K., Read, C.A., Asha, S.E., Beasley, R., et al. (2016) Study protocol for a randomised controlled trial of invasive versus conservative management of primary spontaneous pneumothorax. *BMJ Open*, 6 (9)
- Burakevych, N., McKinlay, C.J., Alsweiler, J.M., Wouldes, T.A., Harding, J.E. (2016) Pre-school screening for developmental and emotional health: Comparison with neurodevelopmental assessment. *Journal of Paediatrics and Child Health*, 52 (6) pp. 600-607
- Burns, K.E., Lo, W.-Y., Findlay, M.P., Sharples, K., Laking, G., Helsby, N.A. 2016. High CYP2C19 phenotypic variability in gastrointestinal cancer patients. *Cancer Chemotherapy and Pharmacology*, 77 (1) pp. 195 – 204
- Button, B.M., Wilson, C., Dentice, R., Cox, N.S., Middleton, A., Tannenbaum, E., Bishop, J., Cobb, R., Burton, K., Wood, M., Moran, F., Black, R., Bowen, S., Day, R., Depiazzi, J., Doiron, K., Doumit, M., Dwyer, T., Elliot, A., Fuller, L., Hall, K., Hutchins, M., Kerr, M., Lee, A.L., Mans, C., O'Connor, L., Steward, R., Potter, A., Rasekaba, T., Scoones, R., Tarrant, B., Ward, N., West, S., White, D., Wilson, L., Wood, J., Holland, A.E. (2016) Physiotherapy for cystic fibrosis in Australia and New Zealand: A clinical practice guideline. *Respirology*, 21 (4) pp. 656- 667



Cairncross, C., Grant, C., Stonehouse, W., Conlon, C., McDonald, B., Houghton, L., Eyles, D., Camargo, C.A., Coad, J., von Hurst, P. (2016) The relationship between vitamin D status and allergic diseases in New Zealand preschool children. *Nutrients*, 8 (6) art. no. 326

Caldwell, I.R., Buckley, B.T., Rajagopal, R., Doocey, R., Pemberton, L. (2016) Traumatic superior gluteal artery pseudoaneurysm following a bone marrow biopsy. *Internal Medicine Journal*, 46 (3) pp. 374- 375

Campbell, D.J., Brown, F.G., Craig, J.C., Gallagher, M.P., Johnson, D.W., Kirkland, G.S., Kumar, S.K., Lim, W.H., Ranganathan, D., Saweirs, W., Sud, K., Toussaint, N.D., Walker, R.G., Williams, L.A., Yehia, M., Mudge, D.W. (2016) Assessment of current practice and barriers to antimicrobial prophylaxis in peritoneal dialysis patients. *Nephrology Dialysis Transplantation*, 31 (4) pp. 619- 627

Carins, T.A., Shi, W.Y., Iyengar, A.J., Nisbet, A., Forsdick, V., Zannino, D., Gentles, T., Radford, D.J., Justo, R., Celermajor, D.S., Bullock, A., Winlaw, D., Wheaton, G., Grigg, L., d'Udekem, Y. (2016) Long-term outcomes after first-onset arrhythmia in Fontan physiology. *Journal of Thoracic and Cardiovascular Surgery*, 152 (5) pp. 1355- 1363.e1

Carr, A., Doyle, A.J., Dalbeth, N., Aati, O., McQueen, F.M. (2016) Dual-energy CT of urate deposits in costal cartilage and intervertebral disks of patients with tophaceous gout and age-matched controls. *American Journal of Roentgenology*, 206 (5) pp. 1063 – 1067

Casamento, K., Laverty, A., Wilsher, M., Twiss, J., Gabbay, E., Glaspole, I., Jaffe, A. (2016) Assessing the feasibility of a web-based registry for multiple orphan lung diseases: The Australasian Registry Network for Orphan Lung Disease (ARNOLD) experience. *Orphanet Journal of Rare Diseases*, 11 (1) art. no. 389

Castanelli, D., Jowsey, T., Chen, Y., Weller, J.M. (2016), Mini-CEX in anesthesia training: Perceptions of purpose, value and process. *Canadian Journal of Anaesthesia*, 63 (12) pp. 1345 - 1356

Cavell, S., Broadbent, E., Donkin, L., Gear, K., Morton, R.P. (2016) Observations of benefit finding in head and neck cancer patients. *European Archives of Oto-Rhino-Laryngology*, 273 (2) pp. 479 – 485

Cavender, M., Bhatt, D.L., Stone, G.W., White, H.D., Steg, P.G., Gibson, C.M., Hamm, C.W., Price, M.J., Leonardi, S., Prats, J., Deliargyris, E.N., Mahaffey, K.W., Harrington, R.A. (2016) Consistent Reduction in Periprocedural Myocardial Infarction With Cangrelor as Assessed by Multiple Definitions Findings From CHAMPION PHOENIX (Cangrelor Versus Standard Therapy to Achieve Optimal Management of Platelet Inhibition). *Circulation*, 134 pp. 723- 733

Chakraborty, M., Hickey, A.J.R., Petrov, M.S., Macdonald, J.R., Thompson, N., Newby, L., Sim, D., Windsor, J.A., Phillips, A.R.J. (2016) Mitochondrial dysfunction in peripheral blood mononuclear cells in early experimental and clinical acute pancreatitis. *Pancreatology*, 16 (5) pp. 739 – 747

Chan, A.H.Y., Stewart, A.W., Foster, J.M., Mitchell, E.A., Camargo, C.A., Harrison, J. (2016) Factors associated with medication adherence in school-aged children with asthma. *ERJ Open Research*, 2 (1) 00087-2015

Chan, A.H.Y., Stewart, A.W., Harrison, J., Black, P.N., Mitchell, E.A., Foster, J.M. (2016) Electronic adherence monitoring device performance and patient acceptability: a randomized control trial. *Expert Review of Medical Devices*, 14 (5) pp. 401- 411

Chani, N. et al incl. White, H.D. (2016) Exome Genotyping Identifies Pleiotropic Variants Associated with Red Blood Cell Traits. *American Journal of Human Genetics*, 99 (1) pp. 8 – 21

Chard, J., Jackson, M., Sasso, G., Forstner, D., Ahern, V. (2016) Particles in the South Pacific. *International Journal of Radiation Oncology Biology Physics*, 95 (1) pp. 19- 20

Chen, A.J., Jarrett, P., MacFarlane, S. (2016) Congenital self-healing reticulohistiocytosis: The need for investigation. *Australasian Journal of Dermatology*, 57 (1) pp. 76- 77

Chew, D.P., Macisaac, A.I., Lefkovits, J., Harper, R.W., Slawomirski, L., Braddock, D., Horsfall, M.J., Buchan, H.A., Ellis, C.J., Brieger, D.B., Briffa, T.G. (2016) Variation in coronary angiography rates in Australia: Correlations with socio-demographic, health service and disease burden indices. *Medical Journal of Australia*, 205 (3) pp. 114- 120

Chew, D.P., Scott, I.A., Cullen, L., French, J.K., Briffa, T.G., Tideman, P.A., Woodruffe, S., Kerr, A., Branagan, M., Aylward, P.E., White, H.D. (Editorial Board) (2016) National Heart Foundation of Australia & Cardiac Society of Australia and New Zealand: Australian Clinical Guidelines for the Management of Acute Coronary Syndromes 2016. *Heart, Lung and Circulation*, 25 (9) pp. 895- 951

Chhana, A., Aati, O., Gamble, G.D., Callon, K.E., Doyle, A.J., Roger, M., McQueen, F.M., Horne, A., Reid, I.R., Cornish, J., Dalbeth, N. (2016) Path analysis identifies receptor activator of nuclear factor- $\kappa$ B ligand, osteoprotegerin, and sclerostin as potential mediators of the tophus-bone erosion relationship in gout. *Journal of Rheumatology*, 43 (2) pp. 445 – 449

Chin, C.T., Boden, W.E., Roe, M.T., Neely, B., Neely, M.L., Leiva-Pons, J.L., Corbalan, R., Gottlieb, S., Dalby, A.J., Armstrong, P.W., Prabhakaran, D., Fox, K.A.A., White, H.D., Ohman, E.M., Winters, K.J., Schiele, F. (2016) Effect of Prior clopidogrel on outcomes in medically managed acute coronary syndrome patients. *Heart*, 102 (15) pp. 1221- 1229

Chin, C.T., Neely, B., Ohman, E.M., Armstrong, P.W., Corbalán, R., White, H.D., Prabhakaran, D., Winters, K.J., Fox, K.A.A., Roe, M.T. for the TRILOGY ACS Investigators. (2016) Time-Varying Effects of Prasugrel vs. Clopidogrel on the Long-Term Risks of Stroke after Acute Coronary Syndromes: Results from the TRILOGY ACS Trial. *Stroke*, 47 pp. 1135 – 1139

Cholesterol Treatment Trialists' (CTT) Collaboration incl White, H.D. (2016) Impact of renal function on the effects of LDL cholesterol lowering with statin-based regimens: a meta-analysis of individual participant data from 28 randomised trials. *Lancet Diabetes Endocrinol*, 4 (10) pp. 829- 839

Christie, A., Costa-Scorse, B., Nicholls, M., Jones, P., Howie, G. (2016) Accuracy of working diagnosis by paramedics for patients presenting with dyspnoea. *EMA – Emergency Medicine Australasia*, 28 (5) pp. 525 – 530



- Chu, M.J., Premkumar, R., Hickey, A.J., Jiang, Y., Delahunt, B., Phillips, A.R., Bartlett, A.S. (2016) Steatotic livers are susceptible to normothermic ischemia-reperfusion injury from mitochondrial Complex-I dysfunction. *World Journal of Gastroenterology*, 22 (19) pp. 4673- 4684
- Chua, T.C., De Reuver, P.R., Staerkle, R.F., Neale, M.L., Arena, J., Mittal, A., Shanbhag, S.T., Gill, A.J., Samra, J.S. (2016) Transverse closure of mesenterico-portal vein after vein resection in pancreatoduodenectomy. *European Journal of Surgical Oncology*, 42 (2) pp. 211- 218
- Civil, I. (2016) Does simulation have a role in non-technical skills training for trauma. *Injury*, 47 pp. 1875- 1876
- Clayton, P.A., Saunders, J.R., McDonald, S.P., Allen, R.D.M., Pilmore, H., Saunder, A., Boudville, N., Chadban, S.J. (2016) Risk-Factor Profile of Living Kidney Donors: The Australia and New Zealand Dialysis and Transplant Living Kidney Donor Registry 2004-2012. *Transplantation*, 100 (6) pp. 1278- 1283
- Cohen, M., Sanatani, S., Stephenson, E., Skinner, J., Drago, F., Davis, A., Janousek, J., Rosenthal, E., Collins, K.K., Triedman, J. (2016) Pediatric & Congenital Electrophysiology Society: Building an international paediatric electrophysiology organisation. *Cardiology in the Young*, 26 (6) pp. 1039 – 1043
- Comery, B., Perry, W., Dare, A., Young, S., Matalavea, B., Bissett, I., Windsor, J. (2016) A Qualitative Assessment of Surgical Capacity In Samoa: The Provider' s Perspectives. *ANZ Journal of Surgery*, 86 (S1)
- Cooper, H., Tekiteki, A., Khanolkar, M., Braatvedt, G. (2016) Risk factors for recurrent admissions with diabetic ketoacidosis: A case-control observational study. *Diabetic Medicine*, 33 (4) pp. 523- 528
- Cooper, J. (2016) Interscalene catheters for shoulder surgery. *Anaesthesia*, 71 (12) p. 1493
- Cormack, B.E., Embleton, N.D., Van Goudoever, J.B., Hay, W.W., Bloomfield, F.H. (2016) Comparing apples with apples: It is time for standardized reporting of neonatal nutrition and growth studies. *Pediatric Research*, 79 (6) pp. 810- 820
- Couban, S., Aljurf, M., Lachance, S., Walker, I., Toze, C., Rubinger, M., Lipton, J.H., Lee, S.J., Szer, R., Doocey, R., Lewis, I.D., Huebsch, L., Howson-Jan, K., Lalancette, M., Almohareb, F., Chaudhri, N., Ivison, S., Broady, R., Levings, M., Fairclough, D., Devins, G., Szwajcer, D., Foley, R., Smith, C., Panzarella, T., Kerr, H., Kariminia, A., Schultz, K.R. (2016) Filgrastim-Stimulated Bone Marrow Compared with Filgrastim-Mobilized Peripheral Blood in Myeloablative Sibling Allografting for Patients with Hematologic Malignancies: A Randomized Canadian Blood and Marrow Transplant Group Study. *Biology of Blood and Marrow Transplantation*, 22 (8) pp. 1410 – 1415
- Crawford, A.Z., Meyer, J.J., Patel, D.V., Ormonde, S.E., McGhee, C.N. (2016) Complications related to sutures following penetrating and deep anterior lamellar keratoplasty. *Clinical and Experimental Ophthalmology*, 44 (2) pp. 142- 143
- Croft, F., Brunette-Lawrey, E. (2016) Losartan and amlodipine overdose—case report of a patient with anuric renal failure prior to the onset of hypotension. *New Zealand Medical Journal*, 129 (1435) p. 1
- Culwick, M.D., Merry, A.F., Clarke, D.M., Taraporewalla, K.J., Gibbs, N.M. (2016) Bow-tie diagrams for risk management in anaesthesia. *Anaesthesia and Intensive Care* 44 (6) pp. 712-718
- Cumin, D., Skilton, C., & Weller, J. (2016). Information transfer in multidisciplinary operating room teams: a simulation-based observational study. *BMJ Quality & Safety*. 2016. doi:10.1136/bmjqs-2015-005130
- Cundy, T. (2016) Clinical perspectives of Paget's disease of bone. *Advances in Pathobiology and Management of Paget's Disease of Bone*. Ed S.V. Reddy. Chapter 1. P1-14. Elsevier
- Daly, E., Miles, A., Scott, S., Gillham, M. (2016) Finding the red flags: Swallowing difficulties after cardiac surgery in patients with prolonged intubation. *Journal of Critical Care*, 31 (1) pp. 119- 124
- Darlow, B.A., Voss, L., Lennon, D.R., Grimwood, K. (2016) Early-onset neonatal group B streptococcus sepsis following national risk-based prevention guideline. *Australian and New Zealand Journal of Obstetrics and Gynaecology*, 56 (1) pp. 69 – 74
- Davidkova, S., Prestidge, T.D., Reed, P.W., Kara, T., Wong, W., Prestidge, C. (2016) Comparison of reticulocyte hemoglobin equivalent with traditional markers of iron and erythropoiesis in pediatric dialysis. *Pediatric Nephrology*, 31 (5) pp. 819- 826
- Davidson, A.J., Disma, N., De Graaff, J.C., Withington, D.E., Dorris, L., Bell, G., Stargatt, R., Bellinger, D.C., Schuster, T., Arnup, S.J., Hardy, P., Hunt, R.W., Takagi, M.J., Giribaldi, G., Hartmann, P.L., Salvo, I., Morton, N.S., Von Ungern Sternberg, B.S., Locatelli, B.G., Wilton, N., Lynn, A., Thomas, J.J., Polaner, D., Bagshaw, O., Szumuk, P., Absalom, A.R., Frawley, G., Berde, C., Ormond, G.D., Marmor, J., McCann, M.E. (2016) Neurodevelopmental outcome at 2 years of age after general anaesthesia and awake-regional anaesthesia in infancy (GAS): An international multicentre, randomised controlled trial. *The Lancet*, 387 (10015) pp. 239 – 250
- Davis, A.M., Glengarry, J., Skinner, J.R. (2016) Sudden Infant Death: QT or Not QT? That is No Longer the Question. *Circulation: Arrhythmia and Electrophysiology*, 9 (6) art. no. e003859
- Davis, R.E., Dougherty, E., McArthur, C., Huang, Q.S., Baker, M.G. (2016) Cold, dry air is associated with influenza and pneumonia mortality in Auckland, New Zealand. *Influenza and other Respiratory Viruses*, 10 (4) pp. 310 – 313
- Delahunt, J.W., Denison, H.J., Kennedy, J., Hilton, J., Young, H., Chaudhri, O.B., Elston, M.S. (2016) Specialist services for management of individuals identifying as transgender in New Zealand. *New Zealand Medical Journal*, 129 (1434) pp. 49 – 58
- De Lautour, H., Taylor, W.J., Adebajo, A., Alten, R., Burgos-Vargas, R., Chapman, P., Cimmino, M.A., Da Rocha Castelar Pinheiro, G., Day, R., Harrold, L.R., Helliwell, P., Janssen, M., Kerr, G., Kavanaugh, A., Khanna, D., Khanna, P.P., Lin, C., Louthrenoo, W., McCarthy, G., Vazquez-Mellado, J., Mikuls, T.R., Neogi, T., Ogdie, A., Perez-Ruiz, F., Schlesinger, N., Ralph Schumacher, H., Scirè, C.A., Singh, J.A., Sivera, F., Slot, O., Stamp, L.K., Tausche, A.-K., Terkeltaub, R., Uhlig, T., Van De Laar, M., White, D., Yamanaka, H., Zeng, X., Dalbeth, N. (2016) Development of Preliminary Remission Criteria for Gout Using Delphi and 1000Minds Consensus Exercises. *Arthritis Care and Research*, 68 (5) pp. 667 – 672



de Souza, C.F., Nivison-Smith, L., Christie, D.L., Polkinghorne, P., McGhee, C., Kalloniatis, M., Acosta, M.L. (2016) Macromolecular markers in normal human retina and applications to human retinal disease. *Experimental Eye Research*, 150 pp. 135- 148

Denny, S., Lewycka, S., Utter, J., Fleming, T., Peiris-John, R., Sheridan, J., Rossen, F., Wynd, D., Teevale, T., Bullen, P., Clark, T. (2016) The association between socioeconomic deprivation and secondary school students' health: Findings from a latent class analysis of a national adolescent health survey. *International Journal for Equity in Health*, 15 (1) art. no. 109

Déry, J.-P., Mahaffey, K.W., Tricoci, P., White, H.D., Podder, M., Westerhout, C.M., Moliterno, D.J., Harrington, R.A., Chen, E., Strony, J., Van de Werf, F., Ziada, K.M., Held, C., Aylward, P.E., Armstrong, P.W., Rao, S.V. (2016) Arterial access site and outcomes in patients undergoing percutaneous coronary intervention with and without vorapaxar. *Catheterization and Cardiovascular Interventions*, 88 (2) pp. 163- 173

Devcich, D.A., Weller, J., Mitchell, S.J., McLaughlin, S., Barker, L., Rudolph, J.W., Raemer, D.B., Zammert, M., Singer, S.J., Torrie, J., Frampton, C.M.A., Merry, A.F. (2016) A behaviourally anchored rating scale for evaluating the use of the WHO surgical safety checklist: Development and initial evaluation of the WHOBARS. *BMJ Quality and Safety*, 25 (10) pp. 778- 786

Devlin, G., Williams, M., Elliott, J., White, H., French, J., Gamble, G., Matsis, P., Troughton, R., Richards, M., Ellis, C. 2016. Management of non ST-elevation acute coronary syndrome patients in New Zealand: A longitudinal analysis. Results from the New Zealand acute coronary syndrome national audits of 2002, 2007 and 2012. *New Zealand Medical Journal*, 129 (1428) pp. 6 – 8

Dickson, J., Alsweiler, J.M., Gunn, C.A., Pretty, C., Chase J.G. (2016) A C-peptide based model of pancreatic insulin secretion in extremely preterm neonates in intensive care. *Journal of Diabetes Science and Technology*, 10 (1) pp. 111- 118

Didsbury, M.S., Kim, S., Medway, M.M., Tong, A., McTaggart, S.J., Walker, A.M., White, S., Mackie, F.E., Kara, T., Craig, J.C., Wong, G. (2016) Socio-economic status and quality of life in children with chronic disease: A systematic review. *Journal of Paediatrics and Child Health*, 52 (12) pp. 1062-1069

Ding, D., Brew, S., McGuinness, B., Mee, E. (2016) Iatrogenic dural arteriovenous fistula after surgical resection of a ruptured brain arteriovenous malformation. *Journal of Neurosciences in Rural Practice*,

7 (4) pp. 604- 606

Ding, D., Law, A.J., Scotter, J., Brew, S. (2016) Lumbar disc herniation exacerbating venous hypertension from a spinal perimedullary arteriovenous fistula of the filum terminale. *Journal of the Neurological Sciences*, 369 pp. 276- 277

D'mello, S.A.N., Joseph, W.R., Green, T.N., Leung, E.Y., During, M.J., Finlay, G.J., Baguley, B.C., Klev-Zylinska, M.L. (2016) Selected GRIN2A mutations in melanoma cause oncogenic effects that can be modulated by extracellular glutamate. *Cell Calcium*, 60 (6) pp. 384 – 395

Dobson, R., Whittaker, R., Jiang, Y., Shepherd, M., Maddison, R., Carter, K., Cutfield, R., McNamara, C., Khanolkar, M., Murphy, R. (2016) Text message-based diabetes self-management support (SMS4BG): Study protocol for a randomised controlled trial. *Trials*, 17 (1) art. No. 179

Doll, J.A., Neely, M.L., Roe, M.T., Armstrong, P.W., White, H.D., Prabhakaran, D., Winters, K.J., Duvvuru, S., Sundseth, S.S., Jakubowski, J.A., Gurbel, P.A., Bhatt, D.L., Ohman, E.M., Fox, K.A.A., for the TRILOGY ACS Investigators. (2016) Impact of CYP2C19 Metabolizer status on Patients with ACS Treated with Prasugrel versus Clopidogrel. *Journal of the American College of Cardiology*, 67 (8) pp. 936- 947

Donovan, E.L., Buckels, E.J., Hancock, S.N., Smeitink, D., Oliver, M.H., Bloomfield, F.H., Jaquiere, A.L. (2016) Twin conception in sheep leads to impaired insulin sensitivity and sexually dimorphic adipose tissue and skeletal muscle phenotypes in adulthood. *Reproductive Sciences*, pii: 1933719116670516

Doyle, A.J., Dalbeth, N., McQueen, F., Boyer, L., Dong, J., Rome, K., Frecklington, M. (2016) Gout on CT of the feet: A symmetric arthropathy. *Journal of Medical Imaging and Radiation Oncology*, 60 (1) pp. 54- 58.

D'Souza, R., Silversides, C.K., McLintock, C. (2016) Optimal Anticoagulation for Pregnant Women with Mechanical Heart Valves. *Seminars in Thrombosis and Hemostasis*, 42 (7) pp. 798 – 804

Du, P., O'Grady, G., Paskaranandavadi, N., Tang, S., Abell, T.L., Cheng, L.K. (2016) Simultaneous anterior and posterior serosal mapping of gastric slow wave dysrhythmias induced by vasopressin. *Experimental Physiology*, 101 pp. 1206 – 1217

Du, P., Paskaranandavadi, N., Angeli, T.R., Cheng, L.K., O'Grady, G. (2016) The Virtual Intestine: in-silico modeling of small intestinal electrophysiology and motility and the applications. *Wiley Interdisciplinary Reviews Systems Biology and Medicine*, 8 (1) pp. 69- 85

Du, P., Yassi, R., Gregersen, H., Windsor, J.A., Hunter, P.J. (2016) The virtual esophagus: investigating esophageal functions in silico. *Annals of the New York Academy of Sciences*, 1380 (1) pp. 19-26

Dwyer, P.M., Lao, L., Ruben, J.D., Yap, M.L., Siva, S., Hegi-Johnson, F., Hardcastle, N., Barber, J., Lehman, M., Ball, D., Vinod, S.K. (2016) Australia and New Zealand Faculty of Radiation Oncology Lung Interest Cooperative: 2015 consensus guidelines for the use of advanced technologies in the radiation therapy treatment of locally advanced non-small cell lung cancer. *Journal of Medical Imaging and Radiation Oncology*, 60 (5) pp. 686 – 692

Eckersley, L., Sadler, L., Parry, E., Finucane, K., Gentles, T.L. (2016) Timing of diagnosis affects mortality in critical congenital heart disease. *Archives of Disease in Childhood*, 101 (6) pp. 516 – 520



Eggers, S., Sadedin, S., van den Bergen, J.A., Robevska, G., Ohnesorg, T., Hewitt, J., Lambeth, L., Bouty, A., Knarston, I.M., Tan, T.Y., Cameron, F., Werther, G., Hutson, J., O'Connell, M., Grover, S.R., Heloury, Y., Zacharin, M., Bergman, P., Kimber, C., Brown, J., Webb, N., Hunter, M.F., Srinivasan, S., Titmuss, A., Verge, C.F., Mowat, D., Smith, G., Smith, J., Ewans, L., Shalhoub, C., Crock, P., Cowell, C., Leong, G.M., Ono, M., Lafferty, A.R., Huynh, T., Visser, U., Choong, C.S., McKenzie, F., Pachter, N., Thompson, E.M., Couper, J., Baxendale, A., Gecz, J., Wheeler, B.J., Jefferies, C., MacKenzie, K., Hofman, P., Carter, P., King, R.I., Krausz, C., van Ravenswaaij-Arts, C.M., Looijenga, L., Drop, S., Riedl, S., Cools, M., Dawson, A., Juniarto, A.Z., Khadilkar, V., Khadilkar, A., Bhatia, V., D'ing, V.C., Atta, I., Raza, J., Thi Diem Chi, N., Hao, T.K., Harley, V., Koopman, P., Warne, G., Faradz, S., Oshlack, A., Ayers, K.L., Sinclair, A.H. (2016) Disorders of sex development: insights from targeted gene sequencing of a large international patient cohort. *Genome Biology*, 29, 17 (1) p. 243

Eicher, J.D. et al incl. White, H.D. (2016) Platelet-Related Variants Identified by Exomechip Meta-analysis in 157,293 Individuals. *American Journal of Human Genetics*, 99 (1) pp. 40 – 55

Ellis, C., Gamble, G., Edwards, C., van Pelt, N., Gabriel, R., Lowe, B., Christiansen, J., To, A., Winch, H., Osborne, M., Ormiston, J.A., Legget, M. (2016) The value of CT cardiac angiography and CT calcium score testing in a modern cardiology service in NHEW Zealand: a report of a single centre eight-year experience from 5,237 outpatient procedures. *New Zealand Medical Journal*, 129 (1446) pp. 22- 32

Engelman, D., Kado, J.H., Reményi, B., Colquhoun, S.M., Carapetis, J.R., Donath, S., Wilson, N.J., Steer, A.C. (2016) Focused cardiac ultrasound screening for rheumatic heart disease by briefly trained health workers: A study of diagnostic accuracy. *The Lancet Global Health*, 4 (6) pp. e386- e394

Engelman, D., Kado, J.H., Reményi, B., Colquhoun, S.M., Carapetis, J.R., Wilson, N.J., Donath, S., Steer, A.C. (2016) Screening for rheumatic heart disease: Quality and agreement of focused cardiac ultrasound by briefly trained health workers. *BMC Cardiovascular Disorders*, 16 (1) art. no. 30

Fanning, N., Galvin, S., Parke, R., Gilroy, J., Bellomo, R., McGuinness, S. (2016) A Prospective Study of the Timing and Accuracy of Neutrophil Gelatinase-Associated Lipocalin Levels in Predicting Acute Kidney Injury in High-Risk Cardiac Surgery Patients. *Journal of Cardiothoracic and Vascular Anesthesia*, 30 (1) pp. 76 – 81

Farrant, M.T., Rowan, J.A., Cundy, T. (2016) Fulminant type 1 diabetes in pregnancy. *Internal Medicine Journal*, 46 (10) pp. 1212- 1215

Farshid, A., Brieger, D., Hyun, K., Hammett, C., Ellis, C., Rankin, J., Lefkovits, J., Chew, D., French, J. 2016. Characteristics and Clinical Course of STEMI Patients who Received no Reperfusion in the Australia and New Zealand SNAPSHOT ACS Registry. *Heart, Lung and Circulation*, 25 (2) pp. 132 – 139

Ferreira, A., Bolland, M.J., Thomas, M.G. (2016) Meta-analysis of randomised trials comparing a penicillin or cephalosporin with a macrolide or lincosamide in the treatment of cellulitis or erysipelas. *Infection*, 44 (5) pp. 607 – 615

Fischer, J. et al on behalf of the New Zealand Malignant Polyp Study (NZ MAPS) group, incl. Bissett, I.P. (2016) Management of malignant colorectal polyps in New Zealand ANZ Journal of Surgery, 87 (5) pp. 350-355. doi: 10.1111/ans.13502. Epub 2016 Apr 8

Flenady, V., Wojcieszek, A.M., Middleton, P., Ellwood, E., Erwich, J.J., Coory, M., Khong, T.Y., Silver, R.M., Smith, G., Boyle, F.M., Lawn, J.E., Blencowe, H., Leisher, S.H., Gross, M.M., Horey, D., Farrales, L., Bloomfield, F.H., McCowan, L., Brown, S.J., Joseph, K.S., Zeitlin, J., Reinebrant, H., Ravaldi, C., Vannacci, A., Cassidy, J., Cassidy, P., Farquhar, C., Wallace, W., Siassakos, D., Heazell, A., Storey, C., Sadler, L., Petersen, S., Froen, J.F., Goldenberg, R.L. (2016) Stillbirths: recall to action in high-income countries. *Lancet*, 387 (10019) pp. 691-702. doi: 10.1016/S0140-6736(15)01020-X.

Freeman, J.T., Dawson, L., Jowitt, D.M., White, M., Callard, H., Sieczkowski, C., Kuriyan, R., Roberts, S.A. (2016) The impact of the hand hygiene New Zealand programme on hand hygiene practices in New Zealand's public hospitals. *New Zealand Medical Journal*, 129 (1443) pp. 67 – 76

Frey, R., Boyd, M., Foster, S., Robinson, J., Gott, M. (2016) What's the diagnosis? Organisational culture and palliative care delivery in residential aged care in New Zealand. *Health and Social Care in the Community*, 24 (4) pp. 450 – 462

Frich, J.C., Rae, D., Roxburgh, R., Miedzybrodzka, Z.H., Edmondson, M., Pope, E.B., Goodman, L., Haddad, M.S., Giuliano, J., Nelson, E.C., Guttman, M., Nance, M. (2016) Health Care Delivery Practices in Huntington's Disease Specialty Clinics: An International Survey. *Journal of Huntington's Disease*, 5 (2) pp. 207-213

Gane, E.J., Schwabe, C., Hyland, R.H., Yang, Y., Svarovskaia, E., Stamm, L.M., Brainard, D.M., McHutchison, J.G., Stedman, C.A. (2016) Efficacy of the Combination of Sofosbuvir, Velpatasvir, and the NS3/4A Protease Inhibitor GS-9857 in Treatment-Naïve or Previously Treated Patients With Hepatitis C Virus Genotype 1 or 3 Infections. *Gastroenterology*, 151 (3) pp. 448- 456.e1

Ganeshalingham, A., Anderson, B.J., Zuccollo, J., Davies-Payne, D., Beca, J. (2016) Porcelain lung: calcification in severe Bordetella pertussis infection. *Archives of Diseases in Childhood*, 101 (5) pp. 421

Ganeshalingham, A., Reed, P., Grant, C., Anderson, B., Best, E., Beca, J. (2016) Hospital costs of Bordetella pertussis in New Zealand children. *New Zealand Medical Journal*, 129 (1445) pp. 75-82

Gao, T.Y., Cuo, C.X., South, J., Black, J.M., Dai, S., Anstice, N., Thompson, B. (2016) Resolution of anisometropic amblyopia in a 48-year-old with refractive correction alone. *Clinical and Experimental Optometry*. Online ahead of print

Gargiulo, D.A., Mitchell, S.J., Sheridan, J., Short, T.G., Swift, S., Torrie, J., Webster, C.S., Merry, A.F. (2016) Microbiological contamination of drugs during their administration for anesthesia in the operating room. *Anesthesiology*, 124 (4) pp. 785- 794

Gasparini, C., Benatar, J., Marshall, W., Johansen, Y., Reed, S. (2016) Cardiac Rehabilitation Nurse Clinics. *Heart, Lung and Circulation*, 25 S39

Gasparini, C., Johansen, Y., Reed, S., Benatar, J. et al. (2016) A Community Exercise Program in Partnership with Te Hononga o Tamaki Me Hoturoa- a Holistic Approach to Exercise Rehabilitation. *Heart, Lung and Circulation*, 25 S36



Gee, H.E., Bignell, F., Odgers, D., Gill, S., Martin, D., Toohey, J., Carroll, S. (2016) In vivo dosimetric impact of breast tissue expanders on post-mastectomy radiotherapy. *Journal of Medical Imaging and Radiation Oncology*, 60 (1) pp. 138- 145

Ghosh, N., Karmali, R., Rocha, V., Ahn, K.W., DiGilio, A., Hari, P.N., Bachanova, V., Bacher, U., Dahi, P., De Lima, M., D'Souza, A., Fenske, T.S., Ganguly, S., Kharfan-Dabaja, M.A., Prestidge, T.D., Savani, B.N., Smith, S.M., Sureda, A.M., Waller, E.K., Jaglowski, S., Herrera, A.F., Armand, P., Salit, R.B., Wagner-Johnston, N.D., Fuchs, E., Bolaños-Meade, J., Hamadani, M. (2016) Reduced-intensity transplantation for lymphomas using haploidentical related donors versus HLA-matched sibling donors: A center for international blood and marrow transplant research analysis. *Journal of Clinical Oncology*, 34 (26) pp. 3141 – 3149

Gillies, N., Pendharkar, S.A., Asrani, V.M., Mathew, J., Windsor, J.A., Petrov, M.S. (2016) Interleukin-6 is associated with chronic hyperglycemia and insulin resistance in patients after acute pancreatitis. *Pancreatology*, 2016 Jul 2 [epub ahead of print]

Gokul, A., Patel, D.V., McGhee, C.N. (2016) Dr John Nottingham's 1854 Landmark Treatise on Conical Cornea Considered in the Context of the Current Knowledge of Keratoconus. *Cornea*, 35 (5) pp. 673- 678

Gokul, A., Patel, D.V., Watters, G.A., McGhee, C.N.J. (2016) The natural history of corneal topographic progression of keratoconus after age 30 years in non-contact lens wearers. *British Journal of Ophthalmology*, 101 (6) pp. 839- 844

Goldsworthy, M., Franich-Ray, C., Kinney, S., Shekerdeman, L., Beca, J., Gunn, J. (2016) Relationship between Social-Emotional and Neurodevelopment of 2-Year-Old Children with Congenital Heart Disease. *Congenital Heart Disease*, 11 (5) pp. 378- 385

Goodenberger, M.L., Thomas, B.C., Riegert-Johnson, D., Boland, C.R., Plon, S.E., Clendenning, M., Win, A.K., Senter, L., Lipkin, S.M., Stadler, Z.K., Macrae, F.A., Lynch, H.T., Weitzel, J.N., De La Chapelle, A., Syngal, S., Lynch, P., Parry, S., Jenkins, M.A., Gallinger, S., Holter, S., Aronson, M., Newcomb, P.A., Burnett, T., Le Marchand, L., Pichurin, P., Hampel, H., Terdiman, J.P., Lu, K.H., Thibodeau, S., Lindor, N.M. (2016) PMS2 monoallelic mutation carriers: The known unknown. *Genetics in Medicine*, 18 (1) pp. 13 – 19

Goodger, R.L., Asrani, V.M., Windsor, J.A., Petrov, M.S. (2016) Impact of metabolic comorbidities on outcomes of patients with acute pancreatitis: a scoping review. *Panminerva medica*, 58 (1) pp. 86- 93

Gordon, C. J., Jorm, C., Shulruf, B., Weller, J., Currie, J., Lim, R., Osommmanski, A. (2016) Development of a self-assessment teamwork tool for use by medical and nursing students". *BMC Medical Education*, 16 (1) pp. 218

Gounder, S.T., Wijayanayaka, D., Murphy, R., Armstrong, D., Cutfield, R., Kim, D.D.W., Clarke, M.G., Evannett, N.J., Humphreys, M.L., Robinson, S.J., Booth, M.W.C. (2016) Costs of bariatric surgery in a randomised control trial (RCT) comparing roux en Y gastric bypass vs sleeve gastrectomy in morbidly obese diabetic patients. *New Zealand Medical Journal*, 129 (1443) pp. 43 – 52

Gow, N., McGuinness, C., Morris, A.J., McLellan, A., Hardy, A.E., Munro, J.T., Roberts, S.A. (2016) Excess cost associated with primary hip and knee joint arthroplasty surgical site infections: A driver to support investment in quality improvement strategies to reduce infection rates. *New Zealand Medical Journal*, 129 (1432) pp. 51- 58

Greig, S.R., Cooper, T.J., Sommer, D.D., Nair, S., Wright, E.D. (2016) Objective sinonasal functional outcomes in endoscopic anterior skull-base surgery: an evidence-based review with recommendations. *International Forum of Allergy and Rhinology*, 6 (10) pp. 1040 – 1046

Griffith, R.J., Jordan, V., Herd, D., Reed, P.W., Dalziel, S.R. (2016) Vapocoolants (cold spray) for pain treatment during intravenous cannulation. *Cochrane Database of Systematic Reviews*, 2016 (4) art. no. CD009484

Groom, K.M., McCowan, L.M., Stone, P.R., Chamley, L.C., McLintock, C. (2016) Enoxaparin for the prevention of preeclampsia and intrauterine growth restriction in women with a prior history - an open-label randomised trial (the EPPI trial): Study protocol. *BMC Pregnancy and Childbirth*, 16 (1) art. no. 367

Gruber, M., Mills, N., Blair, D., Van Der Meer, G., Mahadevan, M. (2016) Safety of paediatric day-stay laryngeal surgery for recurrent respiratory papillomatosis. *International Journal of Pediatric Otorhinolaryngology*, 82 pp. 116 – 119

Grünich, K., Garcia, V., Stinear, C., Ackerley, S., Tiemensma, J., Broadbent, E. (2016) Kinematic measures of brain drawings are associated with illness perceptions in people with stroke. *International Psychogeriatrics*, 28 pp. 1637-1642

Gunn, E.R., Albert, B.B., Hofman, P.L., Cutfield, W.S., Gunn, A.J., Jefferies, C.A.; Starbase Diabetes Working Group, Paediatric Diabetes Service, Starship Children's Hospital, Auckland, New Zealand. (2016) Pathways to reduce diabetic ketoacidosis with new onset type 1 diabetes: Evidence from a regional pediatric diabetes center: Auckland, New Zealand, 2010 to 2014. *Pediatric Diabetes*, doi: 10.1111/pedi.12456.

Gunn, J.K., Beca, J., Hunt, R.W., Goldsworthy, M., Brizard, C.P., Finucane, K., Donath, S., Shekerdeman, L.S. (2016) Perioperative risk factors for impaired neurodevelopment after cardiac surgery in early infancy. *Archives of Diseases in Childhood*, 101 (11) pp. 1010-1016

Guo, C.X., Babu, R.J., Black, J.M., Bobier, W.R., Lam, C.S.Y., Dai, S., Gao, T.Y., Hess, R.F., Jenkins, M., Jiang, Y., Kowal, L., Parag, V., South, J., Staffieri, S.E., Walker, N., Wadham, A., Thompson, B., Von Blaramberg, T., Boswell, S.J., Chakraborty, A., Chan, L., Clavagner, S., Ho, P.W.C., Howe, C., Jen, M.H., Kearns, L., Michie, J., Ng, C., Faatui, J.F., Pang, P., Pieri, R., Raveendren, R.N., Spiegel, D., Uren, S.L. (2016) Binocular treatment of amblyopia using videogames (BRAVO): Study protocol for a randomised controlled trial. *Trials*, 17 (1) art. No. 504

Gupta, D., Hull, M.L., Fraser, I., Miller, L., Bossuyt, P.M.M., Johnson, N., Nisenblat, V. (2016) Endometrial biomarkers for the non-invasive diagnosis of endometriosis. *Cochrane Database of Systematics Reviews*, 2016 (4) art. no. CD012165



Gurney, J., Chong, A., Culliford-Semmens, N., Tilton, E., Wilson, N.J., Sarfati, D. (2016) The benefits and harms of rheumatic heart disease screening from the perspective of the screened population. *International Journal of Cardiology*, 221 pp. 734 – 740

Gutierrez, J.A., Harrington, R.A., Blankenship, J.C., Stone, G.W., Steg, P.G., Gibson, C.M., Hamm, C.W., Price, M.J., G  n  reux, P., Prats, J., Deliangryis, E.N., Mahaffey, K.W., White, H.D., Bhatt, D.L. (2016) The effect of cangrelor and access site on ischaemic and bleeding events: Insights from CHAMPION PHOENIX. *European Heart Journal*, 37 (14) pp. 1122 – 1130

Hagstr  m, E., Roe, M.T., Hafley, G., Neely, M.L., Sidhu, M.S., Winters, K.J., Prabhakaran, D., White, H.D., Armstrong, P.W., Fox, K.A.A., Ohman, E.M., Boden, W.E. (2016) Association Between Very Low Levels of High-Density Lipoprotein Cholesterol and Long-term Outcomes of Patients With Acute Coronary Syndrome Treated Without Revascularization: Insights From the TRILOGY ACS Trial. *Clinical Cardiology*, 39 (6) pp. 329 – 337

Hague, W.E., Simes, J., Kirby, A., Keech, A.C., White, H.D., Hunt, D., Nestel, P.J., Colquhoun, D.M., Pater, H., Stewart, R.A., Sullivan, D.R., Thompson, P.L., West, M., Gasziou, P.P., Tonkin, A.M. for the LIPID study investigators. (2016) Long-term effectiveness and safety of pravastatin in patients with coronary heart disease: 16 years of follow-up of the LIPID study. *Circulation*, 133 (10) pp. 1851 – 1860

Halim, S.A., Clare, R.M., Newby, L.K., Lokhnygina, Y., Schweiger, M.J., Hof, A.W., Hockman, J.S., James, S.K., White, H.D., Widimsky, P., Betriu, A., Bode, C., Giugliano, R.P., Harrington, R.A., Zeymer, U. (2016) Frequency, clinical and angiographic characteristics, and outcomes of high-risk non-ST-segment elevation acute coronary syndromes patients with left circumflex culprit lesions. *International Journal of Cardiology*, 203 pp. 708- 713

Hamblin, R., Shuker, C., Stokarek, I., Wilson, J., Merry, A.F. (2016) Public reporting of health care performance data: what we know and what we should do. *New Zealand Medical Journal*, 129 (1431) pp. 7-17

Hamill, J.K., Hill, A.G. (2016) A history of the treatment of appendicitis in children: lessons learned. *ANZ Journal of Surgery*, 86 (10) pp. 762- 767

Hamill, J.K., Liley, A., Hill, A.G. (2016) Rectus sheath block for laparoscopic appendectomy: A randomized clinical trial. *ANZ Journal of Surgery*, 85 (12) pp. 951 – 956

Hamill, J.K., Rahiri, J.-L., Liley, A., Hill, A.G. (2016) Rectus sheath and transversus abdominis plane blocks in children: A systematic review and meta-analysis of randomized trials. *Paediatric Anaesthesia*, 26 (4) pp. 363- 371

Han, C.H., Kilfoyle, D.H., Hill, A.G., Jameson, M.B., McKeage, M.J. (2016) Preventing oxaliplatin-induced neurotoxicity: rationale and design of phase Ib randomized, double-blind, placebo-controlled, cross-over trials for early clinical evaluation of investigational therapeutics. *Expert Opinion on Drug Metabolism and Toxicology*, 12 (12) pp. 1479- 1490

Hanna, N.H., Kaiser, R., Sullivan, R.N., Aren, O.R., Ahn, M.-J., Tiangco, B., Voccia, I., Pawel, J.V., Kovcin, V., Agulnik, J., Gaschler-Markefski, B., Barrueco, J., Sikken, P., Schloss, C., Kim, J.-H. (2016) Nintedanib plus pemetrexed versus placebo plus pemetrexed in patients with relapsed or refractory, advanced non-small cell lung cancer (LUME-Lung 2): A randomized, double-blind, phase III trial. *Lung Cancer*, 102 pp. 65- 73

Hanson, C., Lyden, E., Rennard, S., Mannino, D.M., Rutten, E.P.A., Hopkins, R., Young, R. (2016) The relationship between dietary fiber intake and lung function in the national health and nutrition examination surveys. *Annals of the American Thoracic Society*, 13 (5) pp. 643 – 650

Harding, J.E., Dalziel, S.R. (2016) Re: Antenatal corticosteroids: a time for more careful scrutiny of the indications?: The most reliable evidence is reassuring. *BJOG: An International Journal of Obstetrics and Gynaecology*, 123 (10) pp. 1707 – 1708

Harper, A., Jones, P., Wimsatt, J., Stewart, J., Le Fevre, J., Wells, S., Curtis, E., Reid, P. Ameratunga, S. (2016) "The effect of the Shorter Stays in Emergency Departments health target on the quality of ED discharge summaries." *Emergency Medicine Journal* 33 (12) pp. 860- 864

Harris, D.L., Alsweiler, J.M., Ansell, J.M., Gamble, G.D., Thompson, B., Woudes, T.A., Yu, T.Y., Harding, J.E. ; Children with Hypoglycaemia and their Later Development (CHYLD) Study Team. Outcome at 2 Years after Dextrose Gel Treatment for Neonatal Hypoglycemia: Follow-Up of a Randomized Trial. *Journal of Pediatrics*, 170:54-9.e1-2. doi: 10.1016/j.jpeds.2015.10.066.

Harris, S.L., Austin, N.C., Battin, M., Broadbent, R., Horwood, J., Keenan, R., Wells, S., Spencer, C., Graham, P., Woodward, L.J., Darlow, B.A. (2016) In-hospital morbidity and brain metrics of preterm neonates born 1998–2009. *New Zealand Medical Journal*, 129 (1440) pp. 94 – 107

Harvey, D., Pollock, N.W., Gant, N., Hart, J., Mesley, P., Mitchell, S.J. (2016) The duration of two carbon dioxide absorbents in a closed-circuit rebreather diving system. *Diving and Hyperbaric Medicine*, 46 (2) pp. 92 – 97

Hegarty, J.E., Harding, J.E., Gamble, G.D., Crowther, C.A., Edlin, R., Alsweiler, J.M. (2016) Prophylactic Oral Dextrose Gel for Newborn Babies at Risk of Neonatal Hypoglycaemia: A Randomised Controlled Dose-Finding Trial (the Pre-hPOD Study). *PLoS Medicine*, 13 (10) art. no. e1002155

Henderson, M., Miles, A., Holgate, V., Peryman, S., Allen, J. (2016) Application and Verification of Quantitative Objective Videofluoroscopic Swallowing Measures in a Pediatric Population with Dysphagia. *Journal of Pediatrics*, 178 pp. 200 - 205.e1

Hess, P.L., et al incl. White, H.D. (2016) Sudden Cardiac Death after Non-ST-Segment Elevation Acute Coronary Syndrome. *JAMA Cardiology*, 1 (1) pp. 73- 79

Hijazi, Z., Lindb  ck, J., Alexander, J.H., Hanna, M., Held, C., Hylek, E.M., Lopes, R.D., Oldgren, J., Siegbahn, A., Stewart, R.A.H., White, H.D., Granger, C.B., Wallentin, L. (2016) The ABC (Age, Biomarkers, Clinical history) Stroke Risk Score - A Biomarker-Based Risk Score for Predicting Stroke in Atrial Fibrillation. *European Heart Journal*, 37 pp. 1582- 1590



- Ho, E., Yasutomi, M., Gounder, D., Dittmer, I. (2016) ABO blood group incompatible transplantation in New Zealand: a report of the first 20 cases. *New Zealand Medical Journal*, 129 pp. 45- 50
- Hoggard, M., Biswas, K., Zoing, M., Wagner, Mackenzie, B., Taylor, M.W., Douglas, R.G. (2016) Evidence of microbiota dysbiosis in chronic rhinosinusitis. *International Forum of Allergy & Rhinology*, 7 (3) pp. 230- 239
- Honey, M., Westbrooke, L. (2016) Evolving national strategy driving nursing informatics in New Zealand. *Studies in Health Technology and Informatics*, 225 pp. 183 – 187
- Hopkins, R. J., Kendall, C., Gamble, G. D., & Young, R. P. (2016) A Comparison Of Lung Cancer In New Zealand Europeans And Maori: Are Maori More Susceptible To Smoking?. *American Journal of Respiratory and Critical Care Medicine*, Vol. 193
- Hopkins, R. J., & Young, R. P. (2016) Gene by Environment Interaction Linking the Chromosome 15q25 Locus With Cigarette Consumption and Lung Cancer Susceptibility--Are African American Affected Differently?. *EBioMedicine*, 4, pp. 13 – 14
- Hopkins, R. J., Young, R. P., Duan, F., Chiles, C., Greco, E., Gamble, G. D., & Aberle, D. (2016) Airflow Limitation And Lung Cancer Risk In A Large Prospective Screening Study (nlst-Acrin Cohort Analysis, N=18, 714). In *American Journal of Respiratory and Critical Care Medicine*, Vol. 193
- Howard-Brown, C., Civil, I. (2016) NZ Spinal Cord Registry: A new milestone. *New Zealand Medical Journal*, 129 (1438) p. 15
- Howell, J., Balderson, G., Hellard, M., Gow, P., Strasser, S., Stuart, K., Wigg, A., Jeffrey, G., Gane, E., Angus, P.W. (2016) The increasing burden of potentially preventable liver disease among adult liver transplant recipients: A comparative analysis of liver transplant indication by era in Australia and New Zealand. *Journal of Gastroenterology and Hepatology (Australia)*, 31 (2) pp. 434 – 441
- Hsiao, C.Y., Pilmore, H.L., Zhou, L., de Zoysa, J.R. (2016) Outcomes of renal transplant recipients with BK virus infection and BK virus surveillance in the Auckland region from 2006 to 2012. *World Journal of Nephrology*, 5 (6) pp. 497-506
- Hutin, C., May, S., Prestidge, T. (2016) Juvenile myelomonocytic leukaemia and noonan syndrome: A case study. *New Zealand Journal of Medical Laboratory Science*, 70 (3) pp. 110 – 112
- International Cardiac Collaborative on Neurodevelopment (ICCON) Investigators, incl. Beca, J. (2016) Impact of Operative and Postoperative Factors on Neurodevelopmental Outcomes After Cardiac Operations. *Annals of Thoracic Surgery*, 102 (3) pp. 843-849
- Islam, S.M., Vinod, S.K., Lehman, M., Siva, S., Kron, T., Dwyer, P.M., Holloway, L., Lao, L., Yap, M.L., Ruben, J.D. (2016) Lung cancer radiation therapy in Australia and New Zealand: Patterns of practice. *Journal of Medical Imaging and Radiation Oncology*, 60 (5) pp. 677 – 685
- Jabur, G.N.S., Sidhu, K., Willcox, T.W., Mitchell, S.J. (2016) Clinical evaluation of emboli removal by integrated versus non-integrated arterial filters in new generation oxygenators. *Perfusion (United Kingdom)*, 31 (5) pp. 409 – 417
- Jackson, L.R., for the TRILOGY ACS Investigators incl. White, H. D. (2016) Dual antiplatelet therapy and outcomes in patients with atrial fibrillation and acute coronary syndromes managed medically without revascularization: Insights from the TRILOGY ACS Trial. *Clinical Cardiology*, 39 (9) pp. 497- 506
- Jacobs, C., Joy, A.A., Clemons, M. (2016) Will oncologists applaud the paris accord? Time to rethink global mega-conferences. *Current Oncology*, 23 (4) pp. 223 – 224
- Jacobsen, J.C., Wilson, C., Cunningham, V., Glamuzina, E., Prosser, D.O., Love, D.R., Burgess, T., Taylor, J., Swan, B., Hill, R., Robertson, S.P., Snell, R.G., Lehnert, K. (2016) Brain dopamine-serotonin vesicular transport disease presenting as a severe infantile hypotonic parkinsonian disorder. *Journal of Inherited Metabolic Disease*, 39 (2) pp. 305 – 308
- Jaffe, A.S., White, H.D. (2016) Ruling-in myocardial injury and ruling-out myocardial infarction with the European Society of Cardiology 1-Hour algorithm. *Circulation*, 134 (20) pp. 1542 - 1545
- Jain, R., Lee, T., Hardcastle, T., Biswas, K., Radcliff, F., & Douglas, R. (2016). The in vitro effect of xylitol on chronic rhinosinusitis biofilms. *Rhinology*, 54 (4) pp. 323 – 328
- Jain, R., Waldvogel-Thurlow, S., Darveau, R., & Douglas, R. (2016). Differences in the paranasal sinuses between germ-free and pathogen-free mice. *International Forum of Allergy & Rhinology*, 6 (6) pp. 631- 637
- Jaksic, M., Vyas, J. 2016. Primum non nocere. *Respirology*, 21 (2) pp. 205- 206
- Jansson, D., Scotter, E.L., Rustenhoven, J., Coppieters, N., Smyth, L.C.D., Oldfield, R.L., Bergin, P.S., Mee, E.W., Graham, E.S., Faull, R.L.M., Dragunow, M. (2016) Interferon- $\gamma$  blocks signalling through PDGFR $\beta$  in human brain pericytes. *Journal of Neuroinflammation*, 13 (1) art. no. 249
- Jaquiere, A.L., Park, S.S., Phua, H.H., Berry, M.J., Meijler, D., Harding, J.E., Oliver, M.H., Bloomfield, F.H. (2016) Brief neonatal nutritional supplementation has sex-specific effects on glucose tolerance and insulin regulating genes in juvenile lambs. *Pediatric Research*, 80 (6) pp. 861-869
- Jatene, T., Harrington, R.A., Stone, G.W., Steg, P.G., Gibson, C.M., Hamm, C.W., Price, M.J., Prats, J., Deliargyris, E.N., Mahaffey, K.W., White, H.D., Bhatt, D.L. (2016) Investigator-reported bleeding versus post-hoc adjudication of bleeding. Lessons from the CHAMPION PHOENIX Trial. *Journal of the American College of Cardiology*, 67 (5) pp. 596- 598
- Jaung, R., Robertson, J., O' Grady, G., Milne, T., Bissett, I. (2016) A Systematic Review of Intra-Colonic Pressure profiles in Diverticular Disease. *ANZ Journal of Surgery*, 86 (S1) pp. 25 – 35
- Jaung, R., Robertson, J., Rowbotham, D., Bissett, I. (2016) Current management of acute diverticulitis: a survey of Australasian surgeons. *New Zealand Medical Journal*, 129 pp. 23-29
- Johansen, Y., Marshall, W., Reed, S., Gasparini, C., Benatar, J. (2016) Treatment Predicts Who Attends Cardiac Rehabilitation- Are We Underplaying CAD that is Medically Managed? *Heart, Lung and Circulation*, 25 S36-S7



- Johnson, P., Federico, M., Kirkwood, A., Fosså, A., Berkahn, L., Carella, A., D'Amore, F., Enblad, G., Franceschetto, A., Fulham, M., Luminari, S., O'Doherty, M., Patrick, P., Roberts, T., Sidra, G., Stevens, L., Smith, P., Trotman, J., Viney, Z., Radford, J., Barrington, S. (2016) Adapted treatment guided by interim PET-CT scan in advanced Hodgkin's lymphoma. *New England Journal of Medicine*, 374 (25) pp. 2419 – 2429
- Jolicœur, E.M., Dunning, A., Castelvechio, S., Dabrowski, R., Wacławski, M.A., Petrie, M.C., Stewart, R., Jhund, P.S., Desvigne-Nickens, P., Panza, J.A., Bonow, R.O., Sun, B., San, T.R., Al-Khalidi, H.R., Rouleau, J.L., Velazquez, E.J., Cleland, J.G.F. (2016) Importance of Angina in Patients with Coronary Disease, Heart Failure, and Left Ventricular Systolic Dysfunction Insights from STICH. *Journal of the American College of Cardiology*, 66 (19) pp. 2092- 2100
- Jones, A.S.K., Ellis, C.J., Nash, M., Stanfield, B., Broadbent, E. (2016) Using Animation to Improve Recovery from Acute Coronary Syndrome: A Randomized Trial. *Annals of Behavioral Medicine*, 50 (1) pp. 108- 118
- Jones, P.G., Kamona, S., Doran, O., Sawtell, F., Wilsher, M. (2016) Randomized Controlled Trial of Humidified High-Flow Nasal Oxygen for Acute Respiratory Distress in the Emergency Department: The HOT-ER Study. *Respiratory Care*, 61 (3) pp. 291-299
- Jones, P., Wells, S., Harper, A., Lefevre, J., Stewart, J., Curtis, E., Reid, P., Ameratunga, S. (2016) Is a national time target for emergency department stay associated with changes in the quality of care for acute asthma? A multicentre pre-intervention post-intervention study. *EMA- Emergency Medicine Australasia*, 28 (1) pp. 48 – 55
- Jones, S., Blake, S., Hamblin, R., Petagna, C., Shuker, C., Merry, A.F. (2016) Reducing harm from falls. *New Zealand Medical Journal*, 129 (1446) pp. 89-103
- Joshi, P., Fink, J., Barber, P.A., Davis, A., Lanford, J., Seymour, A., Wright, P., Busby, W., Abernethy, G., Ranta, A. (2016) Stroke Thrombolysis in New Zealand: Data from the first 6 months of the New Zealand Thrombolysis Register. *New Zealand Medical Journal*, 129 (1438) pp. 42- 47
- Jowsey, T., Yu, T., Ganeshanatham, G., Torrie, J., Merry, A., Bagg, W., Bacal, K., Weller, J. (2016) Ward calls not so scary for medical students after interprofessional simulation course: a mixed methods cohort study. *BMC Medical Education*
- Jowsey, T., Strazdins, L., Yen, L. (2016) Worry and time: The unseen costs of informal care. *Chronic Illness*, 12 (4) pp. 249 – 260
- Karam, O. et al for PlasmaTV Investigators incl. Beca, J., Rea, M., Sherring, C., Bushell, T. (2016) Performance of the PEdiatric Logistic Organ Dysfunction-2 score in critically ill children requiring plasma transfusions. *Annals of Intensive Care*, 6 (1) 98
- Khashram, M., He, Q., Oh, T., Khanafer, A., Wright, I.A., Vascudevan, T.M., Lo, A.S.N., Roake, J.A., Civil, I. (2016) Late radiological and clinical outcomes of traumatic thoracic aortic injury managed with thoracic endovascular aortic repair. *World Journal of Surgery*, 40 pp. 1763- 1770
- Kaul, P., Ohman, E.M., Knight, J.D., Anstrom, K.J., Roe, M.T., Boden, W.E., Hochman, J.S., Gašparović, V., Armstrong, P.W., McCollam, P., Fakhouri, W., Cowper, P., Davidson-Ray, L., Clapp-Channing, N., White, H.D., Fox, K.A.A., Prabhakaran, D., Mark, D.B. (2016) Health-related quality of life outcomes with prasugrel among medically managed non-ST-segment elevation acute coronary syndrome patients: Insights from the Targeted Platelet Inhibition to Clarify the Optimal Strategy to Medically Manage Acute Coronary Syndromes (TRILOGY ACS) trial. *American Heart Journal*, 178 pp. 55 – 64
- Kelly, A.M., et al. and AANZDEM Study Group incl. Jones, P. (2016) Epidemiology, prehospital care and outcomes of patients arriving by ambulance with dyspnoea: an observational study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 24 (1) p.113
- Kenedi, C., Friedman, S.H., Watson, D., Preitner, C. (2016) Suicide and Murder-Suicide Involving Aircraft. *Aerospace Medicine and Human Performance*, 87(4) pp. 388-396
- Kennedy, J.I., Askelund, K.J., Premkumar, R., Phillips, A.R., Murphy, R., Windsor, J.A., Petrov, M.S. (2016) Leptin Is Associated With Persistence of Hyperglycemia in Acute Pancreatitis: A Prospective Clinical Study. *Medicine*, 95 (6) e2382
- Kerr, A., Williams, M.J.A., Harding, S., White, H., Doughty, R., Nunn, C., Devlin, G., Grey, C., Lee, M., Flynn, C., Rhodes, M., Sutherland, K., Wells, S., Jackson, R., Stewart, R. (2016) The all New Zealand acute coronary syndrome quality improvement programme: Implementation, methodology and cohorts (ANZACS-QI 9). *New Zealand Medical Journal*, 129 (1439) pp. 23 – 36
- Kersten, H.M., Danesh-Meyer, H.V., Roxburgh, R.H. (2016) Ophthalmic findings in myotonic dystrophy type 2: a case series. *Journal of Neurology*, 263 (12) pp. 2552-2554
- Kersten, H.M., Roxburgh, R.H., Danesh-Meyer, H.V., Hutchinson, D.O. (2016) Optical coherence tomography findings in a patient with type 1 sialidosis. *Journal of Clinical Neuroscience*, 2016 Sep;31:199-201. doi: 10.1016/j.jocn.2016.02.015.
- Keskinen, H., Helenius, I., Nnadi, C., Cheung, K., Ferguson, J., Mundis, G., Pawelek, J., Akbarnia, B.A. (2016) Preliminary comparison of primary and conversion surgery with magnetically controlled growing rods in children with early onset scoliosis. *European Spine Journal*, 25 (10) pp. 3294- 3300
- Khashram, M., He, Q., Oh, T.H., Khanafer, A., Wright, I.A., Vasudevan, T.M., Lo, A.S.N., Roake, J.A., Civil, I. (2016) Late Radiological and Clinical Outcomes of Traumatic Thoracic Aortic Injury Managed with Thoracic Endovascular Aortic Repair. *World Journal of Surgery*, 40 (7) pp. 1763- 1770
- Kidd, S.K., Bonaca, M.P., Braunwald, E., DeFerrari, G.M., Lewis, B.S., Merlini, P.A., Murphy, S.A., Scirica, B.M., White, H.D., Morrow, D.A. (2016) Universal Classification System Type of Incident Myocardial Infarction in Patients With Stable Atherosclerosis: Observations From Thrombin Receptor Antagonist in Secondary Prevention of Atherothrombotic Ischemic Events (TRA 2°P)-TIMI 50. *Journal of the American Heart Association*, 18 (5) pii: e003237. doi: 10.1161/JAHA.116.003237



- Kim, B.Z., Jordan, C.A., McGhee, C.N., Patel, D.V. (2016) Natural history of corneal haze after corneal collagen crosslinking in keratoconus using Scheimpflug analysis. *Journal of Cataract and Refractive Surgery*, 42 (7) pp. 1053- 1059
- Kim, B.Z., Meyer, J.J., Brookes, N.H., Moffatt, S.L., Twohill, H.C., Pendergrast, D.G., Sherwin, T., McGhee, C.N.J. (2016) New Zealand trends in corneal transplantation over the 25 years. 1991-2015. *British Journal of Ophthalmology*, 101 (6) pp. 834 - 838
- Kim, B.Z., Patel, D.V., Sherwin, T., McGhee, C.N.J. (2016) The Auckland Cataract Study: Assessing Preoperative Risk Stratification Systems for Phacoemulsification Surgery in a Teaching Hospital. *American Journal of Ophthalmology*, 171 pp. 145 – 150
- Kim, R., Chang, G., Hu, R., Phillips, A., & Douglas, R. (2016). Connexin gap junction channels and chronic rhinosinusitis. *International Forum of Allergy & Rhinology*, 6 (6) pp. 611- 617
- Kim, V., Pemberton, J., Riddell, F., Looi, K.L. (2016) Adherence to the current guidelines for bradycardic pacing in the octogenarian and nonagenarian populations. *New Zealand Medical Journal*, 129 pp. 33-40
- Knoll, G.A., et al, incl. Pilmore, H. (2016) Ramipril versus placebo in kidney transplant patients with proteinuria: a multicentre, double-blind, randomised controlled trial. *Lancet Diabetes and Endocrinology*, 4 (4) pp. 318-326
- Knops, R.E., Brouwer, T.F., Barr, C.S., Theuns, D.A., Boersma, L., Weiss, R., Neuzil, P., Scholten, M., Lambiase, P.D., Leon, A.R., Hood, M., Jones, P.W., Wold, N., Grace, A.A., Olde Nordkamp, L.R.A., Burke, M.C. (2016) The learning curve associated with the introduction of the subcutaneous implantable defibrillator. *Europace*, 18 (7) pp. 1010 – 1015
- Koch, C., Taghavi, K., Hamill, J., Mirjalili, S.A. (2016) Redefining the projectional and clinical anatomy of the duodenojejunal flexure in children. *Clinical Anatomy*, 29 (2) pp. 175- 182
- Koea, J.B., Batiller, J., Aguirre, N., Shen, J., Kocharian, R., Boichichio, G., Garden, O.J. (2016) A multicentre, prospective, randomized, controlled trial comparing EVARREST™ fibrin sealant patch to standard of care in controlling bleeding following elective hepatectomy: anatomic versus non-anatomic resection. *HPB*, 18 (3) pp. 221 – 228
- Kool, B., Wise, M.R., Peiris-John, R., Sadler, L., Wells, S. (2016) Is the delivery of a quality improvement education programme in obstetrics and gynaecology for final year medical students feasible and still effective in a shortened time frame? *BMC Medical Education*, 17 p. 91
- Krievins, D.K., Savlovskis, J., Holden, A.H., Kisis, K., Hill, A.A., Gedins, M., Ezite, N., Zarins, C.K. (2016) Preservation of hypogastric flow and control of iliac aneurysm size in the treatment of aortoiliac aneurysms using the Nellix EndoVascular Aneurysm Sealing endograft. *Journal of Vascular Surgery*, 64 (5) pp. 1262 – 1269
- Kumar, H., Jain, R., Douglas, R. G., & Tawhai, M. H. (2016). Airflow in the Human Nasal Passage and Sinuses of Chronic Rhinosinusitis Subjects. *PloS one*, 11 (6) e0156379
- Kumar, R., McSharry, B., Bradbeer, P., Wiltshire, E., Jefferies, C. (2016) Thrombocytopenia-associated multiorgan failure occurring in an infant at the onset of type 1 diabetes successfully treated with fresh frozen plasma. *Clinical Case Reports*, 4 (7) pp. 671- 674.
- Lagas, A., Black, J., Byblow, W., Fleming, M., Goodman, L., Kydd, R., Russell, B., Stinear, C., Thompson, B. (2016) Fluoxetine does not enhance visual perceptual learning and triazolam specifically impairs learning transfer. *Frontiers in Human Neuroscience*, <http://dx.doi.org/10.3389/fnhum.2016.00532>
- Lala, S., Upadhyay, V. (2016) *Enterobius vermicularis* and its role in paediatric appendicitis: protection or predisposition? *ANZ Journal of Surgery*, 86 (9) pp. 717 – 719
- Lam, L., Chiu, W.W., Davidson, J.S. (2016) Overestimation of aldosterone by immunoassay in renal impairment. *Clinical Chemistry*, 62 (6) pp. 890 – 891
- Lensen, S., Sadler, L., Farquhar, C. (2016) Endometrial scratching for subfertility: Everyone's doing it. *Human Reproduction*, 31 (6) pp. 1241- 1244
- Leslie, K., Short, T.G. (2016) Anesthetic depth and long-term survival: an update. *Canadian Journal of Anesthesia*, 63 (2) pp. 233 – 240
- Liang Goh, T., Bloch, S.H., Chembo, C., Semple, D., Sidhu, K., Stewart, R., Pilmore, H. (2016) Changes in high sensitivity troponin T in incident haemodialysis patients. *New Zealand Medical Journal*, 129 (1445) pp. 23-34
- Lim, T.H., Gane, E., Moyes, C., Borman, B., Cunningham, C. (2016) HBsAg loss in a New Zealand community study with 28-year follow-up: rates, predictors and long-term outcomes. *Hepatology International*, 10 (5), pp. 829- 837
- Lindsay, H.A., Hannam, J.A., Bradfield, C.N., Mitchell, S.J. (2016) Breath alcohol of anesthesiologists using alcohol hand gel and the “five moments for hand hygiene” in routine practice. *Canadian Journal of Anaesthesia*, 63 (8) pp. 938- 944
- Linkhorn, H., van der Meer, G., Gruber, M., Mahadevan, M. (2016) Castleman's disease: An unusually young presentation resulting in delayed diagnosis of a neck mass. *International Journal of Pediatric Otorhinolaryngology*, 86 pp. 90 – 92
- Little, T., Roberts, J., Hamill, J. (2016) Re: Rectus sheath block for laparoscopic appendectomy: A randomized clinical trial. *ANZ Journal of Surgery*, 86 (5) pp. 420 – 421
- Liu, A. Y., Dean, A. L., Nuttall, J. W., Wilkinson, J. D., Khanolkar, M. P., & Drury, P. L. (2016) Structured type 1 diabetes education (DAFNE) reduces basal insulin and improves weight and glycaemia: 3-year follow-up study. *Diabetologia*, 59 pp. S128-S128
- Lok, A.S., Pan, C.Q., Han, S.-H.B., Trinh, H.N., Fessel, W.J., Rodell, T., Massetto, B., Lin, L., Gaggar, A., Subramanian, G.M., McHutchison, J.G., Ferrari, C., Lee, H., Gordon, S.C., Gane, E.J. (2016) Randomized phase II study of GS-4774 as a therapeutic vaccine in virally suppressed patients with chronic hepatitis B. *Journal of Hepatology*, 65 (3) pp. 509 – 516



Lopes, R.D., Leonardi, S., Neely, B., Neely, M.L., Ohman, E.M., Ardissino, D., Hamm, C.W., Goodman, S.G., Bhatt, D.L., White, H.D., Prabhakaran, D., Martinez, F., Nicolau, J.C., Winters, K.J., Fox, K.A.A., Armstrong, P.W., Roe, M.T. (2016) Spontaneous MI after non-ST-segment elevation acute coronary syndrome managed without revascularization: The TRILOGY ACS trial. *Journal of the American College of Cardiology*, 67 (11) pp. 1289 – 1297

Lowe, M., Handy, R., Ingram, J., Nisbet, M., Ritchie, S., Thomas, M., Briggs, S. (2016) Increased uptake of cervical screening by women with HIV infection in Auckland regardless of ethnicity, requirement for an interpreter or level of education. *New Zealand Medical Journal*, 129 (1438) pp. 22- 31

Ludin, N.M., Cheeseman, J.F., Merry, A.F., Millar, C.D., Warman, G.R. (2016) The effects of the general anaesthetic isoflurane on the honey bee (*Apis mellifera*) circadian clock. *Chronobiology International: the journal of biological and medical rhythm research* 33 (1) pp. 128-133

Ma, C.S. et al incl. Blincoe, A.K. (2016) Unique and shared signaling pathways cooperate to regulate the differentiation of human CD4<sup>+</sup> T cells into distinct effector subsets. *Journal of Experimental Medicine*, 213 (8) pp. 1589- 1608

Ma, J., Pendharkar, S.A., O'Grady, G., Windsor, J.A., Petrov, M.S. 2016. Effect of nasogastric tube feeding vs nil per os on dysmotility in acute pancreatitis. *Nutrition in Clinical Practice*, 31 (1) pp. 99 – 104

Macaulay, E.C., Bloomfield, F.H. (2016) Unravelling the Link Between the Placental Epigenome and Pregnancy Outcomes. *Biology of Reproduction*, 94 (4), p. 82. doi: 10.1095/biolreprod.116.139915.

Mahadevan, M., Gruber, M., Bilish, D., Edwards, K., Davies-Payne, D., van der Meer, G (2016) Botulinum toxin injections for chronic sialorrhoea in children are effective regardless of the degree of neurological dysfunction: A single tertiary institution experience. *International Journal of Pediatric Otorhinolaryngology*, 88 pp. 142 – 145

Mahadevan, M., Neeff, M., Van Der Meer, G., Baguley, C., Wong, W.K., Gruber, M. (2016) Non-tuberculous mycobacterial head and neck infections in children: Analysis of results and complications for various treatment modalities. *International Journal of Pediatric Otorhinolaryngology*, 82 pp. 102- 106

Mahon, C., Walker, W., Drage, A., Best, E. (2016) Incidence, aetiology and outcome of pleural empyema and parapneumonic effusion from 1998 to 2012 in a population of New Zealand children. *Journal of Paediatrics and Child Health*, 52 (6) pp. 662 – 668

Manns, M., Samuel, D., Gane, E.J., Mutimer, D., McCaughan, G., Buti, M., Prieto, M., Calleja, J.L., Peck-Radosavljevic, M., Müllhaupt, B., Agarwal, K., Angus, P., Yoshida, E.M., Colombo, M., Rizzetto, M., Dvory-Sobol, H., Denning, J., Arterburn, S., Pang, P.S., Brainard, D., McHutchison, J.G., Dufour, J.-F., Van Vlierberghe, H., van Hoek, B., Forns, X. (2016) Ledipasvir and sofosbuvir plus ribavirin in patients with genotype 1 or 4 hepatitis C virus infection and advanced liver disease: a multicentre, open-label, randomised, phase 2 trial. *The Lancet Infectious Diseases*, 16 (6) pp. 685 – 697

Manton, D.J., Bach, K. (2016) The role of glass-ionomers in paediatric dentistry. *Glass-Ionomers in Dentistry*, pp. 113 – 123

Marcus, M. W., Raji, O. Y., Duffy, S. W., Young, R. P., Hopkins, R. J., & Field, J. K. (2016) Incorporating epistasis interaction of genetic susceptibility single nucleotide polymorphisms in a lung cancer risk prediction model.. *International Journal of Oncology*, 49 (1) pp. 361- 370

Marshall, W., Reed, S., Johansen, Y., Gasparini, C.G., Benatar, J. (2016) Improving Cardiac Rehabilitation Nurse-led Clinics Boost Uptake of Cardioprotective Medications at 6 Months. *Heart, Lung and Circulation*, 25 S37

Martin, A., van der Meer, G., Blair, D., Mahadevan, M., Neeff, M., Barber, C., Mills, N., Salkeld, L., Gruber, M. (2016) Long-standing inhaled foreign bodies in children: Characteristics and outcome. *International Journal of Pediatric Otorhinolaryngology*, 90 pp. 49 – 53

Martis, R., Brown, J., Alsweiler, J., Crawford, T.J., Crowther, C.A. (2016) Different intensities of glycaemic control for women with gestational diabetes mellitus. *Cochrane Database of Systematic Reviews*, 2016 Apr 7;4:CD011624.

Martis, W.R., Hannam, J. A., Lee, T., Merry, A.F., Mitchell, S.J. (2016) Improved compliance with the World Health Organization Surgical Safety Checklist is associated with reduced surgical specimen labelling errors. *The New Zealand Medical Journal* 129 (1441) pp. 63-67

Mathan, J.J., Ismail, S., McGhee, J.J., McGhee, C.N., Sherwin, T. (2016) Sphere-forming cells from peripheral cornea demonstrate the ability to repopulate the ocular surface. *Stem Cell Research and Therapy*, 7 (1) pp. 81

Mathur, S., Lin, S.-Y.S. (2016) The learning curve for laparoscopic inguinal hernia repair: a newly qualified surgeon perspective. *Journal of Surgical Research*, 205 (1) pp. 246- 251

Maurer, M., Church, M.K., Marsland, A.M., Sussman, G., Siebenhaar, F., Vestergaard, C., Broom, B. (2016) Questions and answers in chronic urticaria: Where do we stand and where do we go? *Journal of the European Academy of Dermatology and Venereology*, 30 pp. 7 – 15

Maze, M.J., Paynter, J., Chiu, W., Hu, R., Nisbet, M., Lewis, C. (2016) Therapeutic drug monitoring of isoniazid and rifampicin during anti-Tuberculosis treatment in Auckland, New Zealand. *International Journal of Tuberculosis and Lung Disease*, 20 (7) pp. 955 – 960

McCaughan, G.W., Munn, S.R. (2016) Liver transplantation in Australia and New Zealand. *Liver Transplantation*, 22 (6) pp. 830 – 838

McCormack, A., Claxton, K., Ashton, F., Asquith, P., Atack, E., Mazzaschi, R., Moverley, P., O'Connor, R., Qorri, M., Sheath, K., Love, D.R., George, A.M. (2016) Microarray testing in clinical diagnosis: an analysis of 5,300 New Zealand patients. *Molecular Cytogenetics*, 9:29. doi: 10.1186/s13039-016-0237-9

MacDonald, H.J., Stinear, C.M., Ren, A., Coxon, J.P., Kao, J., MacDonald, L., Snow, B., Cramer, S.C., Byblow, W.D. (2016) Dopamine gene profiling to predict impulse control and effects of dopamine agonist ropinirole. *Journal of Cognitive Neuroscience*, 28 (7) pp. 909-919

McClain, J.B., Carlyle, W.C., Donohoe, D.J., Ormiston, J.A. (2016) Technical overview on the MiStent coronary stent. *Minerva Cardioangiologica*, 64 (5) pp. 560- 571.



McGhee, C.N., Kim, B.Z. (2016) Fungal keratitis: dealing with a diverse kingdom of ocular assailants. *Clinical and Experimental Ophthalmology*, 44 (9) pp. 755- 756

McGoldrick, E.L., Brown, J.A., Groom, K.M., Crowther, C.A. (2016) Investigating antenatal corticosteroid clinical guideline practice at an organisational level. *Australian and New Zealand Journal of Obstetrics and Gynaecology*, Nov 15. doi: 10.1111/ajo.12564

McGoldrick, E.L., Crawford, T., Brown, J.A., Groom, K.M., Crowther, C.A. (2016) Consumers attitudes and beliefs towards the receipt of antenatal corticosteroids and use of clinical practice guidelines. *BMC Pregnancy and Childbirth*, 16 (1) art. no. 259

McGoldrick, E.L., Crawford, T., Brown, J.A., Groom, K.M., Crowther, C.A. (2016) Identifying the barriers and enablers in the implementation of the New Zealand and Australian Antenatal Corticosteroid Clinical Practice Guidelines. *BMC Health Services Research*, 16 (1) p. 617

McGregor, A.L., Dysart, J., Tingle, M.D., Russell, B.R., Kydd, R.R., Finucane, G. (2016) Varenicline improves motor and cognitive symptoms in early Huntington's disease. *Neuropsychiatric Disease and Treatment*, 12 pp. 2381 – 2386

McIntyre, J.P.R., Ingham, C.M., Hutchinson, B.L., Thompson, J.M.D., McCowan, L.M., Stone, P.R., Veale, A.G., Cronin, R., Stewart, A.W., Ellyett, K.M., Mitchell, E.A. (2016) A description of sleep behaviour in healthy late pregnancy, and the accuracy of self-reports. *BMC Pregnancy and Childbirth*, 16 (1) art. no. 115

McLintock, C., Pabinger, I., Bauer, K.A., Laffan, M., Angchaisuksiri, P., Rezende, S.M., Middeldorp, S., Ross, M. 2016. International Society on Thrombosis and Haemostasis core curriculum project: Core competencies in clinical thrombosis and hemostasis. *Journal of Thrombosis and Haemostasis*, 14 (1) pp.3-27

McLintock, C., Ross, M. (2016) International Society on Thrombosis and Haemostasis core curriculum project: core competencies in clinical thrombosis and hemostasis: reply. *Journal of Thrombosis and Haemostasis*, 14 (6) pp. 1318- 1319

McMullan, B.J., Bowen, A., Blyth, C.C., Van Hal, S., Korman, T.M., Buttery, J., Voss, L., Roberts, S., Cooper, C., Tong, S.Y.C., Turnidge, J. (2016) Epidemiology and mortality of staphylococcus aureus Bacteremia in Australian and New Zealand children. *JAMA Pediatrics*, 170 (10) pp. 979- 986

McSharry, B. (2016) Fly away with me. *Acta Paediatrica, International Journal of Paediatrics*, 105 (11) p. 1336

Medrano-Gracia, P., Ormiston, J., Webster, M., Beier, S., Young, A., Ellis, C., Wang, C., Smedby, Ö., Cowan, B. (2016) A computational atlas of normal coronary artery anatomy. *EuroIntervention*, 12 (7) pp. 845 – 854

Mehrabi, N.F., Waldvogel, H.J., Tippet, L.J., Hogg, V.M., Synek, B.J., Faull, R.L.M (2016) Symptom heterogeneity in Huntington's disease correlates with neuronal degeneration in the cerebral cortex. *Neurobiology of Disease*, 96 pp. 67 – 74

Meyer, J.J., Gokul, A., Crawford, A.Z., McGhee, C.N. (2016) Penetrating Keratoplasty for Keratoconus With and Without Resolved Corneal Hydrops: Long-term Results. *American Journal of Ophthalmology*, 169 pp. 282- 289

Meyer, J.J., Gokul, A., Vellara, H.R., Prime, Z., McGhee, C.N. (2016) Repeatability and Agreement of Orbscan II, Pentacam HR, and Galilei Tomography Systems in Corneas With Keratoconus. *American Journal of Ophthalmology*, 175 pp. 122 – 128

Meyer, J.J., McGhee, C.N. (2016) Acute Corneal Hydrops Complicated by Microbial Keratitis: Case Series Reveals Poor Immediate and Long-Term Prognosis. *Cornea*, 35 (7) pp. 1019 – 1022

Meyer, J.J., McGhee, C.N. (2016) Incidence, severity and outcomes of traumatic wound dehiscence following penetrating and deep anterior lamellar keratoplasty. *British Journal of Ophthalmology*, 100 (10) pp. 1412- 1415

Meyer, J.J., Polkinghorne, P.J., McGhee, C.N. (2016) Cataract surgery practices and endophthalmitis prophylaxis by New Zealand Ophthalmologists. *Clinical and Experimental Ophthalmology*, 44 (7) pp. 643- 645

Miller, L.M., Hodgson, R., Wong, T.Y., Merrilees, M., Norman, R.J., Johnson, N.P. (2016) Single embryo transfer for all? *Australian and New Zealand Journal of Obstetrics and Gynaecology*, 56 (5) pp. 514 – 517

Mitchell, S.J., Merry, A.F. (2016) Perspective on cerebral microemboli in cardiac surgery: Significant problem or much ado about nothing? *Journal of Extra-Corporeal Technology*, 47 (1) pp. 10- 15

Mitchelson, B.L., Skinner, J.R., Donnell, C.O. (2016) Multiple atrial thrombi in a neonate presenting with supraventricular tachycardia. *HeartRhythm Case Reports*, 2 (1) pp. 71 – 73

Mohammad, S.S., Jones, H., Hong, M., Nosadini, M., Sharpe, C., Pillai, S.C., Brilot, F., Dale, R.C. (2016) Symptomatic treatment of children with anti-NMDAR encephalitis. *Developmental Medicine and Child Neurology*, 58 (4) pp. 376- 384

Moynihan, K., McSharry, B., Reed, P., Buckley, D. (2016) Impact of Retrieval, Distance Traveled, and Referral Center on Outcomes in Unplanned Admissions to a National PICU. *Pediatric Critical Care Medicine*, 17 (2) pp. e34- e42

Mulroy, E., Simpson, M., Frith, R. (2016) Case report: Thoracic myelopathy due to gnathostomiasis acquired in New Zealand. *American Journal of Tropical Medicine and Hygiene*, 95 (4) pp. 868 – 870

Mundt, S., Briggs, S. (2016) HIV-related stigma and discrimination in the New Zealand healthcare setting. *Sexual Health*, 13 pp. 582- 588

Murray, H.C., Low, V.F., Swanson, M.E.V., Dieriks, B.V., Turner, C., Faull, R.L.M., Curtis, M.A. (2016) Distribution of PSA-NCAM in normal, Alzheimer's and Parkinson's disease human brain. *Neuroscience*, 330 pp. 359 – 375

Naea, N., Dobson, A., Leversha, A., Williams, S., Knott, K., Clayton-Bray, L., Dickinson, A. (2016) Awareness and understanding of rheumatic fever among Pacific people in Auckland. *Neonatal, Paediatric and Child Health Nursing*, 19 (1) pp. 7- 12



- Nakarada-Kordic, I., Weller, J.M., Webster, C.S., Cumin, D., Frampton, C., Boyd, M., Merry, A.F. (2016) Assessing the similarity of mental models of operating room team members and implications for patient safety: A prospective, replicated study. *BMC Medical Education*, 16 (1) art. no. 229
- Navadgi, S., Chang, C.-C., Bartlett, A., McCall, J., Pandanaboyana, S. (2016) Systematic review and meta-analysis of outcomes after liver resection in patients with hepatocellular carcinoma (HCC) with and without bile duct thrombus. *HPB*, 18 (4) pp. 312 – 316
- Naylor RW, McGhee CN, Cowan CA, Davidson AJ, Holm TM, Sherwin T. (2016) Derivation of Corneal Keratocyte-Like Cells from Human Induced Pluripotent Stem Cells. *PLoS One*, 11 (10) e0165464. doi:10.1371/journal.pone.0165464
- Neeff, M., Biswas, K., Hoggard, M., Taylor, M. W., & Douglas, R. (2016) Molecular microbiological profile of chronic suppurative otitis media. *Journal of Clinical Microbiology*, 54 (10) pp. 2538 - 2546
- Neuzil, P., Ormiston, J.A., Brinton, T.J., Starek, Z., Esler, M., Dawood, O., Anderson, T.L., Gertner, M., Whitbourne, R., Schmieder, R.E. (2016) Externally delivered focused ultrasound for renal denervation. *JACC Cardiovascular Interventions*, 9 (12) pp. 1292- 1299
- Neveu, R., Neveu, D., Barbalat, G., Schmidt, U., Coricelli, G., Nicolas, A. (2016) The sequential binge, a new therapeutic approach for binge eating: A pilot study. *PLoS ONE*, 11 (11) art. no. e0165696
- Nichani, V., Dirks, K., Burns, B., Bird, A., Morton, S., Grant, C. (2016) Green space and physical activity in pregnant women: Evidence from the growing up in New Zealand study. *Journal of Physical Activity and Health*, 13 (12) pp. 1341 – 1350
- Nickerson, S.L., Balasubramaniam, S., Dryland, P.A., Love, J.M., Kava, M.P., Love, D.R., Prosser, D.O. (2016) Two Novel GLDC Mutations in a Neonate with Nonketotic Hyperglycinemia. *Journal of Pediatric Genetics*, 5 (3) pp. 174-180
- O'Donoghue, M.L., Bhatt, D.L., Stone, G.W., Steg, P.G., Gibson, C.M., Hamm, C.W., Price, M.J., Prats, J., Liu, T., Delargyris, E.N., Mahaffey, K.W., White, H.D., Harrington, R.A. (2016) Efficacy and Safety of Cangrelor in Women Versus Men during Percutaneous Coronary Intervention: Insights from the Cangrelor versus Standard Therapy to Achieve Optimal Management of Platelet Inhibition (CHAMPION PHOENIX) Trial. *Circulation*, 133 (3) pp. 248- 255
- O'Donoghue, M.L., et al for the LATITUDE-TIMI 60 Investigators (including White, H.D.). (2016) Effect of Losmapimod on Cardiovascular outcomes in patients hospitalized with acute myocardial infarction. A randomized clinical trial. *Journal of the American Medical Association*, 315 (15) pp. 1591- 1599
- O'Grady, G.L., Best, H.A., Sztal, T.E., Schartner, V., Sanjuan-Vazquez, M., Donkervoort, S., Abath Neto, O., Sutton, R.B., Ilkovski, B., Romero, N.B., Stojkovic, T., Dastgir, J., Waddell, L.B., Boland, A., Hu, Y., Williams, C., Ruparel, A.A., Maisonneuve, T., Peduto, A.J., Reddel, S.W., Lek, M., Tukiainen, T., Cummings, B.B., Joshi, H., Nectoux, J., Brammah, S., Deleuze, J.-F., Ing, V.O., Ramm, G., Ardicli, D., Nowak, K.J., Talim, B., Topaloglu, H., Laing, N.G., North, K.N., MacArthur, D.G., Friant, S., Clarke, N.F., Bryson-Richardson, R.J., Bönnemann, C.G., Laporte, J., Cooper, S.T. (2016) Variants in the Oxidoreductase PYROXD1 Cause Early-Onset Myopathy with Internalized Nuclei and Myofibrillar Disorganization. *American Journal of Human Genetics*, 99 (5) pp. 1086 – 1105
- O'Grady, G.L., Lek, M., et al. (2016) Diagnosis and aetiology of congenital muscular dystrophy: we are halfway there. *Annals of Neurology*, 2016 May 9;10.1002/ana.24687. Epub
- O'Grady, G.L., Verschuuren, C., et al. (2016) Variants in SLC18A3, vesicular acetylcholine transporter, cause congenital myasthenic syndrome. *Neurology*, 87 pp. 1442- 1448
- Oliphant, J., Azariah, S. (2016) Pelvic inflammatory disease associated with Chlamydia trachomatis but not Mycoplasma genitalium in New Zealand. *Sexual Health*, 13 (1) pp. 43 – 48
- Oliver, V.F., van Bysterveldt, K.A., Cadzow, M., Steger, B., Romano, V., Markie, D., Hewitt, A.W., Mackey, D.A., Willoughby, C.E., Sherwin, T., Crosier, P.S., McGhee, C.N., Vincent, A.L. (2016) A COL17A1 Splice-Altering Mutation Is Prevalent in Inherited Recurrent Corneal Erosions. *Ophthalmology*, 123 (4) pp. 709- 722
- Oliver, V.F., Vincent, A.L. (2016) The Genetics and Pathophysiology of IC3D Category 1 Corneal Dystrophies: A Review. *Asia-Pacific Journal of Ophthalmology*, 5 (4) pp. 272 – 281
- Omar, A., Pendyala, L.K., Ormiston, J.A., Waksman, R. (2016) Review: Stent fracture in the drug-eluting stent era. *Cardiovascular Medicine*, 17 (6) pp. 404 – 411
- Orlandi, R. R. et al incl. Douglas, R. (2016). International Consensus Statement on Allergy and Rhinology: Rhinosinusitis.. *International Forum of Allergy & Rhinology*, 6 Suppl 1, S22-209
- Ormiston, J.A., Webster, M.W.I. (2016) Of stents and scaffolds. *Circulation: Cardiovascular Interventions*, 9 (8) art. no. e004249
- Othman, M., McIntock, C., Kadir, R. (2016) Thrombosis and Hemostasis Related Issues in Women and Pregnancy. *Seminars in Thrombosis and Hemostasis*, 42 (7) pp. 693 – 695
- Otter, S.J., Kumar, S., Gow, P., Dalbeth, N., Corkill, M., Rohan, M., Davies, K.A., Pankathelam, S., Rome, K. (2016) Patterns of foot complaints in systemic lupus erythematosus: A cross sectional survey. *Journal of Foot and Ankle Research*, 9 (1) art. no. 10
- Oyston, C., Stanley, J.L., Oliver, M.H., Bloomfield, F.H., Baker, P.N. (2016) Maternal Administration of Sildenafil Citrate Alters Fetal and Placental Growth and Fetal-Placental Vascular Resistance in the Growth-Restricted Ovine Fetus. *Hypertension*, 68 (3) pp. 760-767



Pais, S., Parry, D., Rush, E., Rowan, J. (2016) Data integration for mobile wellness apps to support treatment of GDM. ACM International Conference Proceeding Series, 01-05-February-2016, art. no. a64

Pandanaboyana, S., Bell, R., Windsor, J. (2016) Artery first approach to pancreatoduodenectomy: current status. ANZ Journal of Surgery, 86 (3) pp. 127-132

Park, T.I.-H., Feisst, V., Brooks, A.E.S., Rustenhoven, J., Monzo, H.J., Feng, S.X., Mee, E.W., Bergin, P.S., Oldfield, R., Graham, E.S., Curtis, M.A., Faull, R.L.M., Dunbar, P.R., Dragunow, M. (2016) Cultured pericytes from human brain show phenotypic and functional differences associated with differential CD90 expression. Scientific Reports, 6, art. no. 26587

Parke, R.L. (2016) High-flow nasal cannula oxygen in acute respiratory failure after extubation: Key practical topics and clinical implications. Noninvasive Mechanical Ventilation and Difficult Weaning in Critical Care: Key Topics and Practical Approaches, pp. 139 – 146

Patel, M.R. et al. White, H.D. (2016) Sharing Data from Cardiovascular Clinical Trials — A Proposal. The Academic Research Organization Consortium for Continuing Evaluation of Scientific Studies — Cardiovascular (ACCESS CV). New England Journal Medicine, 375 (5) pp. 407 – 409

Payne, O., Wise, M.R., Pillai, A., Stone, P. (2016) Inequity in timing of prenatal screening in New Zealand: Who are our most vulnerable? Australian and New Zealand Journal of Obstetrics and Gynaecology, 2016-0193.R1

Pendharkar, S.A., Asrani, V.M., Xiao, A.Y., Yoon, H.D., Murphy, R., Windsor, J.A., Petrov, M.S. (2016) Relationship between pancreatic hormones and glucose metabolism: A cross-sectional study in patients after acute pancreatitis. Am J Physiol Gastrointest Liver Physiol, 311 (1) G50-58

Pendharkar, S.A., Plank, L.D., Windsor, J.A., Petrov, M.S. (2016) Quality of Life in a Randomized Trial of Nasogastric Tube Feeding in Acute Pancreatitis. JPEN, 40 (5) pp. 693-698

Pelosi, L., Leadbetter, R., Mulroy, E., Chancellor, A.M., Mossman, S., Roxburgh, R. (2016) Peripheral nerve ultrasound in cerebellar ataxia neuropathy vestibular areflexia syndrome (CANVAS). Muscle and Nerve, 2016 Nov 15. doi: 10.1002/mus.25476.

Peng, X.A., Kelly, P.J., Mulley, W.R., Pleass, H., Pilmore, H., Webster, A.C. (2016) Donor Characteristics of Pancreas Transplantation in Australia and New Zealand: A Cohort Study 1984-2014. Transplantation Direct, 2 (9) e99

Penny, K., Barron, A., Higgins, A.-M., Gee, S., Croucher, M., Cheung, G. 2016. Convergent Validity, Concurrent Validity, and Diagnostic Accuracy of the interRAI Depression Rating Scale. Journal of Geriatric Psychiatry and Neurology, 29 (6) pp. 361 – 368

Percival, E., Bhatia, R., Preece, K., McElduff, P., McEvoy, M., Collison, A., Mattes, J. (2016) Reproducibility of serum IgE, Ara h2 skin prick testing and fraction of exhaled nitric oxide for predicting clinical peanut allergy in children. Allergy, Asthma and Clinical Immunology, 12 (1) art. no. 35

Perry, W., Dare, A., Young, S., Comery, B., Bunkley, N., Leodoro, B., Bissett, I., Windsor, J. (2016) Researching Surgical Care in the Pacific – An update from the Global Surgery Group. ANZ Journal of Surgery, 86 (S1) pp. 9 3–95

Petrie, M.C., et al. White, H.D. (2016) Ten-Year Outcomes After Coronary Artery Bypass Grafting According to Age in Patients With Heart Failure and Left Ventricular Systolic Dysfunction: An Analysis of the Extended Follow-Up of the STICH Trial (Surgical Treatment for Ischemic Heart Failure). Circulation, 134 pp. 1314- 1324

Petrushko, W., Sundara, J.S., De Reuver, P.R., O'Grady, G., Samra, J.S., Mittal, A. (2016) Systematic review of biomarkers in pancreatic ductal adenocarcinoma. HPB, 18 (8) pp. 652- 663

Pilmore, H., Chadban, S. (2016) Cardiac Screening for Kidney Transplantation: The Clinical Conundrum Continues. Transplantation, 100 (7) pp. 1396- 1397

Poh, C.L., Cochrane, A., Galati, J.C., Bullock, A., Celermajer, D.S., Gentles, T., du Plessis, K., Winlaw, D.S., Hornung, T., Finucane, K., d'Udekem, Y. (2016) Ten-year outcomes of Fontan conversion in Australia and New Zealand demonstrate the superiority of a strategy of early conversion. European Journal of Cardiothoracic Surgery, 49 (2) art. no. ezy112 , pp. 530- 535

Pokorney, S.D., Schulte, P.J., Radder, C., Al-Khatib, S.M., Tricocci, P., Van de Werf, F., James, S.K., Cannon, C.P., Armstrong, P.W., White, H.D., Califf, R.M., Gibson, M., Giugliano, R.P., Wallentin, L., Mahaffey, K.W., Harrington, R.A., Newby, L.K., Piccini, J.P. (2016) High degree atrioventricular block, asystole and electro-mechanical dissociation complicating non-ST-segment elevation myocardial infarction. American Heart Journal. 171 (1) pp. 25-32

Poole, P. (2016) Nature and nurture: Shaping New Zealand's medical workforce. New Zealand Medical Journal, 129 (1434) pp. 1 – 8

Popma, C.J., Sheng, S., Korjian, S., Daaboul, Y., Chi, G., Tricoci, P., Huang, Z., Moliterno, D.J., White, H.D., Van De Werf, F., Harrington, R.A., Wallentin, L., Held, C., Armstrong, P.W., Aylward, P.E., Strony, J., Mahaffey, K.W., Gibson, C.M. (2016) Lack of concordance between local investigators, angiographic core laboratory, and clinical event committee in the assessment of stent thrombosis. Circulation: Cardiovascular Interventions, 9 (5) art. no. e003114

Ranta, A., Barber, P.A. (2016) Transient Ischaemic Attack service provision: a review of available service models. Neurology, 86 (10) pp. 947- 953

Raskob, G.E., Angchaisuksiri, P., Blanco, A.N., Buller, H., Ddungu, H., Hunt, B.J., Hylek, E.M., Kakkar, A., Konstantinides, S.V., McCumber, M., McLintock, C., Urano, T., Wendelboe, A., Weitz, J.I. (2016) Venous thromboembolism: A call for risk assessment in all hospitalised patients. Thrombosis and Haemostasis, 116 (5) pp. 777- 779

Rea, H.H., Ruygrok, P.N., Harris, R., Harris, G., Ruygrok, P. (2016) Edward Alfred Harris Obituary. New Zealand Medical Journal, 129 (1438).

Read, J., Sampson, M., Critchley, C. (2016) Are mental health services getting better at responding to abuse, assault and neglect? Acta Psychiatrica Scandinavica, 134 (4) pp. 287 – 294



- Reade, M.C., Eastwood, G.M., Bellomo, R., Bailey, M., Bersten, A., Cheung, B., Davies, A., Delaney, A., Ghosh, A., Van Haren, F., Harley, N., Knight, D., McGuinness, S., Mulder, J., O'Donoghue, S., Simpson, N., Young, P. (2016) Effect of dexmedetomidine added to standard care on ventilator-free time in patients with agitated delirium a randomized clinical trial. *JAMA – Journal of the American Medical Association*, 315 (14) pp. 1460- 1468
- Reay, S. D., Collier, G., Kennedy-Good, J., Old, A., Douglas, R. A., & Bill, A. (2016). Designing the Future of Healthcare Together: Prototyping a Hospital Co-Design Space. *CoDesign: International Journal of CoCreation in Design and the Arts*. DOI: 10.1080/15710882.2016.1160127
- Reid, I.R. (2016) Controversies in osteoporosis management. *Internal Medicine Journal*, 46 (7) pp. 767- 770
- Reid, I.R. (2016) Treatment of Paget's Disease of Bone. *Advances in Pathobiology and Management of Paget's Disease of Bone*, pp. 119 – 136
- Reid, I.R. (2016) What diseases are causally linked to Vitamin D deficiency? *Archives of Disease in Childhood*, 101 (2) pp. 185 - 18
- Reijnen, M.M.P.J., De Bruin, J.L., Mathijssen, E.G.E., Zimmermann, E., Holden, A., Hayes, P., Krievins, D., Böckler, D., De Vries, J.-P.P.M., Thompson, M.M. (2016) Global experience with the Nellix endosystem for ruptured and symptomatic abdominal aortic aneurysms. *Journal of Endovascular Therapy*, 23 (1) pp. 21 – 28
- Reynolds, L.M., Bissett, I.P., Porter, D., Consedine, N.S. (2016) The "ick" Factor Matters: Disgust Prospectively Predicts Avoidance in Chemotherapy Patients. *Annals of Behavioral Medicine*, 2016 Jul 13. [Epub ahead of print] PMID: 27411331
- Riley, J., Hunt, A., McDouall, A., Waqanivalagi, S., Braithwaite, I., Weatherall, M., Stanley, T., Beasley, R., Mitchell, E.A., Dalziel, S.R. (2016) Pilot study of feasibility of a randomised controlled trial of asthma risk with paracetamol versus ibuprofen use in infancy. *New Zealand Medical Journal*, 129 (1443) pp. 30-42
- Roberts, M.A., Pilmore, H.L., Ierino, F.L., Badve, S.V., Cass, A., Garg, A.X., Isbel, N.M., Krum, H., Pascoe, E.M., Perkovic, V., Scaria, A., Tonkin, A.M., Vergara, L.A., Hawley, C.M.; BLOCADE Study Collaborative Group (2016) The  $\beta$ -Blocker to Lower Cardiovascular Dialysis Events (BLOCADE) Feasibility Study: A Randomized Controlled Trial. *American Journal of Kidney Disease*, 67 (6) pp. 902-911.
- Robertson, J.P., Wells, C.I., Vather, R., Bissett, I.P. (2016) Effect of Diversion Ileostomy on the Occurrence and Consequences of Chemotherapy-Induced Diarrhea. *Diseases of the Colon and Rectum*, 59 (3) pp. 194-200
- Robinson, J., Gott, M., Gardiner, C., Ingleton, C. (2016) The 'problematisation' of palliative care in hospital: An exploratory review of international palliative care policy in five countries. *BMC Palliative Care*, 15 (1) art. no. 64
- Rodrigues, J., Minhas, K., Pielas, G., McAlindon, E., Occleshaw, C., Manghat, N., Hamilton, M. (2016) The effect of reducing spatial resolution by in-plane partial volume averaging on peak velocity measurements in phase contrast magnetic resonance angiography. *Quantitative Imaging in Medicine and Surgery*, 6 (5) pp. 564 – 572
- Roe, M.T., Cyr, D.D., Eckart, D., Schulte, P.J., Morse, M.A., Blackwell, K.L., Ready, N.E., Zafar, S.Y., Beaven, A.W., Strickler, J.H., Onken, J.E., Winters, K.J., Houterloot, L., Zamoryakhin, D., Wiviott, S.D., White, H.D., Prabhakaran, D., Fox, K.A.A., Armstrong, P.W., Ohman, E.M. (2016) Ascertainment, classification, and impact of neoplasm detection during prolonged treatment with dual antiplatelet therapy with prasugrel vs. clopidogrel following acute coronary syndrome. *European Heart Journal*, 37 (4) pp. 412 – 422
- Rosie, B., Dalziel, S., Wilson, E., Best, E.J. (2016) Epidemiology of intussusception in New Zealand pre-rotavirus vaccination. *New Zealand Medical Journal*, 129 (1442) pp. 36-45
- Rosty, C., Clendenning, M., Walsh, M.D., Eriksen, S.V., Southey, M.C., Winship, I.M., Macrae, F.A., Boussioutas, A., Poplawski, N.K., Parry, S., Arnold, J., Young, J.P., Casey, G., Haile, R.W., Gallinger, S., Le Marchand, L., Newcomb, P.A., Potter, J.D., Derycke, M., Lindor, N.M., Thibodeau, S.N., Baron, J.A., Win, A.K., Hopper, J.L., Jenkins, M.A., Buchanan, D.D. (2016) Germline mutations in PMS2 and MLH1 in individuals with solitary loss of PMS2 expression in colorectal carcinomas from the colon cancer family registry cohort. *BMJ Open*, 6 (2) art. no. e010293
- Rowan, J.A., Budden, A., Ivanova, V., Hughes, R.C., Sadler, L.C. (2016) Women with an HbA1c of 41-49 mmol/mol (5.9-6.6%): A higher risk subgroup that may benefit from early pregnancy intervention. *Diabetic Medicine*, 33 (1) pp. 25- 31
- Rudmik, L. et al incl. Douglas, R. (2016). Defining appropriateness criteria for endoscopic sinus surgery during management of uncomplicated adult chronic rhinosinusitis: a RAND/UCLA appropriateness study. *Rhinology*, 54 (2) pp. 117- 128
- Russell, P.S., Mittal, A., Brown, L., McArthur, C., Phillips, A.J., Petrov, M., Windsor, J.A. (2016) Admission, management and outcomes of acute pancreatitis in intensive care. *ANZ Journal of Surgery*, 2016 Mar 28. doi: 10.1111/ans.13498
- Rustenhoven, J., Aalderink, M., Scotter, E.L., Oldfield, R.L., Bergin, P.S., Mee, E.W., Graham, E.S., Faull, R.L.M., Curtis, M.A., Park, T.I.-H., Dragunow, M. (2016) TGF-beta1 regulates human brain pericyte inflammatory processes involved in neurovasculature function. *Journal of Neuroinflammation*, 13 (1) art. no. 37
- Rustenhoven, J., Park, T.I.-H., Schweder, P., Scotter, J., Correia, J., Smith, A.M., Gibbons, H.M., Oldfield, R.L., Bergin, P.S., Mee, E.W., Faull, R.L.M., Curtis, M.A., Scott Graham, E., Dragunow, M. 2016. Isolation of highly enriched primary human microglia for functional studies. *Scientific Reports*, 6, art. no. 19371
- Ryder, B., Knoll, D., Love, D.R., Shepherd, P., Love, J.M., Reed, P.W., de Hora, M., Webster, D., Glamuzina, E., Wilson, C. (2016) The natural history of elevated tetradecenoyl-L-carnitine detected by newborn screening in New Zealand: implications for very long chain acyl-CoA dehydrogenase deficiency screening and treatment. *Journal of Inherited Metabolic Disease*, 39 (3) pp. 409- 414
- Sadler, L.C., Farquhar, C.M., Masson, V.L., Battin, M.R. (2016) Contributory factors and potentially avoidable neonatal encephalopathy associated with perinatal asphyxia. *American Journal of Obstetrics and Gynecology*, 214 (6) pp. 747.e1- 747. e8



- Sarfati, D., Shaw, C., McLeod, M., Blakely, T., Bissett, I. (2016) Screening for colorectal cancer: spoiled for choice? *New Zealand Medical Journal*, 129 (1440) pp. 120- 128
- Sarfati, D., Shaw, C., McLeod, M., Blakely, T., Bissett, I. (2016) Response to Cox letter. *New Zealand Medical Journal*, 129 (1446) pp. 116- 118
- Sarin, S.K., Kumar, M., Lau, G.K., Abbas, Z., Chan, H.L.Y., Chen, C.J., Chen, D.S., Chen, H.L., Chen, P.J., Chien, R.N., Dokmeci, A.K., Gane, E., Hou, J.L., Jafri, W., Jia, J., Kim, J.H., Lai, C.L., Lee, H.C., Lim, S.G., Liu, C.J., Locarnini, S., Al Mahtab, M., Mohamed, R., Omata, M., Park, J., Piratvisuth, T., Sharma, B.C., Sollano, J., Wang, F.S., Wei, L., Yuen, M.F., Zheng, S.S., Kao, J.H. 2016. Asian-Pacific clinical practice guidelines on the management of hepatitis B: a 2015 update. *Hepatology International*, 10 (1) pp. 1 – 98
- Sarrazin, C., Dvory-Sobol, H., Svarovskaia, E.S., Doehle, B.P., Pang, P.S., Chuang, S.-M., Ma, J., Ding, X., Afdhal, N.H., Kowdley, K.V., Gane, E.J., Lawitz, E., Brainard, D.M., McHutchison, J.G., Miller, M.D., Mo, H. (2016) Prevalence of Resistance-Associated Substitutions in HCV NS5A, NS5B, or NS3 and Outcomes of Treatment With Ledipasvir and Sofosbuvir. *Gastroenterology*, 151 (3) pp. 501- 512.e1
- Schilling, C., Dalziel, K., Nunn, R., Du Plessis, K., Shi, W.Y., Celmaj, D., Winlaw, D., Weintraub, R.G., Grigg, L.E., Radford, D.J., Bullock, A., Gentles, T.L., Wheaton, G.R., Hornung, T., Justo, R.N., D'Udekem, Y. (2016) The Fontan epidemic: Population projections from the Australia and New Zealand Fontan Registry. *International Journal of Cardiology*, 219 pp. 14 – 19
- Selkirk, G.D., McLaughlin, A.C., Mirjalili, S.A. (2016) Revisiting the surface anatomy of the sciatic nerve in the gluteal region in children using computed tomography. *Clinical Anatomy*, 29 (2) pp. 211 – 216
- Selvaraj, S., for the CHAMPION PHOENIX Investigators incl. White, H.D. (2016) "Off-Hours" Versus "On Hours" Presentation in ST-Segment Elevation Myocardial Infarction: Findings from CHAMPION PHOENIX. *Research Paper. Journal of the American College of Cardiology*, 68 (21) pp. 2385- 2387
- Seneviratne, S., Lawrenson, R., Harvey, V., Ramsaroop, R., Elwood, M., Scott, N., Sarfati, D., Campbell, I. (2016) Stage of breast cancer at diagnosis in New Zealand: Impacts of socio-demographic factors, breast cancer screening and biology. *BMC Cancer*, 16 (1) art. no. 129
- Seyfoddin, A., Sherwin, T., Patel, D.V., McGhee, C.N., Rupenthal, I.D., Taylor, J.A., Al-Kassas, R. (2016) Ex vivo and In vivo Evaluation of Chitosan Coated Nanostructured Lipid Carriers for Ocular Delivery of Acyclovir. *Current Drug Delivery*, 13 (6) pp. 923- 934
- Shanbhag, S., Phillips, A.J., Petrov, M.S., Windsor, J.A. (2016) Protease-related markers in the severity assessment of acute pancreatitis: a systematic review of the literature. *JOP. J Pancreas (Online)*, 17 (6) pp. 592-606
- Shao, J., Zhao, M., Tong, M., Wei, J., Wise, M.R., Stone, P., Chamley, L., Chen, Q. (2016) Increased levels of HMGB1 in trophoblastic debris may contribute to preeclampsia. *Reproduction*, 152 (6) pp. 775-784
- Sharma, S., Holdaway, I. (2016) Inappropriate vasopressin secretion due to limbic encephalitis secondary to LGI1 antibodies. *New Zealand Medical Journal*, 129 (1439) pp. 82 – 84
- Sharma, V., Stewart, R.A., Lee, M., Gabriel, R., Van Pelt, N., Newby, D.E., Kerr, A.J. (2016) Plasma brain natriuretic peptide concentrations in patients with valvular heart disease. *Open Heart*. 3 (1) e000184
- Sheck, L.H., Kelly, P., Vincent, A.L. (2016) Retinal haemorrhages in a child struck by a barbell. *Clinical and Experimental Ophthalmology*, 44 (1) pp. 64 – 65
- Shi, W.Y., Yong, M.S., McGiffin, D.C., Jain, P., Ruygrok, P.N., Marasco, S.F., Finucane, K., Keogh, A., d'Udekem, Y., Weintraub, R.G., Konstantinov, I.E. (2016) Heart transplantation in Fontan patients across Australia and New Zealand. *Heart*, 102 (14) pp. 1120 – 1126
- Short, T.G., Campbell, D., Leslie, K. (2016) Response of bispectral index to neuromuscular block in awake volunteers. *British Journal of Anaesthesia*, 116 (5) pp. 725-726
- Short, T.G., Hannam, J.A., Laurent, S., Campbell, D., Misur, M., Merry, A.F., Tam, Y.H. (2016) Refining Target-Controlled Infusion: An Assessment of Pharmacodynamic Target-Controlled Infusion of Propofol and Remifentanyl Using a Response Surface Model of Their Combined Effects on Bispectral Index. *Anesthesia and Analgesia*, 122 (1) pp. 90-97
- Shorten, P.R., Pleasants, A.B., Buckels, E.J., Jaquier, A.L., Boston, R.C., Alsweiler, J.M. (2016) Determining insulin sensitivity from glucose tolerance tests in sheep. *Journal of Animal Science*, 94 (9) pp. 3711-3721
- Showell, M.G., Mackenzie-Proctor, R., Jordan, V., Hodgson, R., Brown, J., Farquhar, C. (2016) Inositol for subfertile women with polycystic ovary syndrome. *Cochrane Database of Systematic Reviews*, (9) art. no. CD012378
- Singh, P.P., Lemanu, D.P., Soop, M., Bissett, I.P., Harrison, J., Hill, A.G. (2016) Perioperative Simvastatin Therapy in Major Colorectal Surgery: A Prospective, Double-Blind Randomized Controlled Trial. *Journal of the American College of Surgeons*, 223 (2) pp. 308- 320.e1
- Singh-Bains, M.K., Tippett, L.J., Hogg, V.M., Synek, B.J., Roxburgh, R.H., Waldvogel, H.J., Faull, R.L.M. (2016) Globus pallidus degeneration and clinicopathological features of Huntington disease. *Annals of Neurology*, 80 (2) pp. 185 – 201
- Smith, R.C., Smith, S.F., Wilson, J., Pearce, C., Wray, N., Vo, R., Chen, J., Ooi, C.Y., Oliver, M., Katz, T., Turner, R., Nikfarjam, M., Rayner, C., Horowitz, M., Holtmann, G., Talley, N., Windsor, J., Pirola, R., Neale, R. (2016) Summary and recommendations from the Australasian guidelines for the management of pancreatic exocrine insufficiency. *Pancreatology*, 16 (2): pp. 164-180
- Soh, M.C., Dib, F., Nelson-Piercy, C., Westgren, M., McCowan, L., Pasupathy, D. (2016) Maternal-placental syndrome and future risk of accelerated cardiovascular events in Parous Swedish women with systemic lupus erythematosus-a population-based retrospective cohort study with time-to-event analysis. *Rheumatology (United Kingdom)*, 55 (7) art. no. kew043, pp. 1235 – 1242



- Spiroski, A.M., Oliver, M.H., Harding, J.E., Bloomfield, F.H. (2016) Intrauterine Intervention for the Treatment of Fetal Growth Restriction. *Current Pediatric Reviews*, 12 (3) pp. 168-178
- Spriggs, D.A. (2016) Followership: A critical shortfall in health leadership. *Internal Medicine Journal*, 46 (5) pp. 637 – 638
- Stack, M., Price, N., Ronaldson, J., Prestidge, C., Wong, W., Kara, T. (2016) Laparoscopic versus open peritoneal dialysis catheter insertion for the management of pediatric acute kidney injury. *Pediatric Nephrology*, 31 (2) pp. 297-303
- Stanton, J., Randal, P. (2016) Developing a psychiatrist-patient relationship when both people are doctors: A qualitative study. *BMJ Open*, 6 (5) art. no. e010216
- Stedman, C.A.M., Hyland, R.H., Ding, X., Pang, P.S., Mchutchison, J.G., Gane, E.J. (2016) Once daily ledipasvir/sofosbuvir fixed-dose combination with ribavirin in patients with inherited bleeding disorders and hepatitis C genotype 1 infection. *Haemophilia*, 22 (2) pp. 214- 217
- Steffel, J., Giugliano, R.P., Braunwald, E., Murphy, S.A., Mercuri, M., Choi, Y., Aylward, P., White, H., Zamorano, J.L., Antman, E.M., Ruff, C.T. (2016) Edoxaban Versus Warfarin in Atrial Fibrillation Patients at Risk of Falling: ENGAGE AF–TIMI 48 Analysis. *Journal of the American College of Cardiology*, 68 (11) pp. 1169- 1178
- Stewart, R.A.H., Wallentin, L., Benatar, J., Danchin, N., Hagström, E., Held, C., Husted, S., Lonn, E., Stebbins, A., Chiswell, K., Vedin, O., Watson, D., White, H.D. (2016) Dietary patterns and the risk of major adverse cardiovascular events in a global study of high-risk patients with stable coronary heart disease. *European Heart Journal*, 37 (25) pp. 1993 – 2001
- Stewart, R., West, M. (2016) Increasing Evidence for an Association between Periodontitis and Cardiovascular Disease. *Circulation*, 133 (6) pp. 549 – 551
- Stewart, S., Morpeth, T., Dalbeth, N., Vandal, A.C., Carroll, M., Davidtz, L., Mawston, G., Otter, S., Rome, K. (2016) Foot-related pain and disability and spatiotemporal parameters of gait during self-selected and fast walking speeds in people with gout: A two-arm cross sectional study. *Gait and Posture*, 44 pp. 18- 22
- Stone, B., Street, M., Leigh, W., Crawford, H. (2016) Pediatric tibial osteomyelitis. *Journal of Pediatric Orthopaedics*, 36 (5) pp. 534 – 540
- Stowers, M.D.J., Munro, J.T., Hill, A.G. (2016) Enhanced Recovery After Surgery in elective total arthroplasty: The new standard of perioperative care. *ANZ Journal of Surgery*, 86 (5) pp. 327 – 328
- Stowers, M.D.J., Munro, J.T., Hill, A.G. (2016) Tranexamic acid in total joint arthroplasty. *ANZ Journal of Surgery*, 86 (4) pp. 219 – 220
- Streat, S. (2016) Legacy: What ageing intensivists can pass on. *The Intensivist's Challenge: Aging and Career Growth in a High-Stress Medical Specialty*, pp. 115-123
- Su' A.B., Mikaere, H., Rahiri, J., Bissett, I., Hill, A. (2016) Is there a Leak? The Role Biomarkers Play In Detecting Anastomotic Leakage. *ANZ Journal of Surgery*, 86 (S1) pp. 25 – 35
- Subramaniam, H., Taghavi, K., Mirjalili, S.A. (2016) A reappraisal of pediatric abdominal surface anatomy utilizing in vivo cross-sectional imaging. *Clinical Anatomy*, 29 (2) pp. 197 – 203
- Sundararajan, K. et al for the Australian and New Zealand Intensive Care Society Clinical Trials Group Point Prevalence Study Investigators incl. Parke, R., Gilder, E., McCarthy, L., McArthur, C., Newby, L., Benefield, K., Chen, Y. (2016) Hospital overnight and evaluation of systems and timelines study: A point prevalence study of practice in Australia and New Zealand. *Resuscitation*, 100 pp. 1 – 5
- Suwannasom, P., Sotomi, Y., asano, T., Koon, J.N., Tateishi, H., Zeng, Y., Tenekecioglu, E., Wykrzykowska, J.J., Foin, N., de Winter, R.J., Ormiston, J.A., Serruys, P.W., Onuma, Y. (2016) Change in lumen eccentricity and asymmetry after treatment with Absorb bioresorbable vascular scaffolds in the ABSORB Cohort B trial: a five-year serial optical coherence tomography imaging study. *EuroIntervention*, pii: EIJ-D-16-00740. doi: 10.4244/EIJ-D-16-00740
- Suwannasom, P., Sotomi, Y., Ishibashi, Y., Cavalcante, R., Albuquerque, F.N., Macaya, C., Orimiston, J.A., Hill, J., Lang, I.M., Egred, M., Fajadet, J., Lesiak, M., Tijssen, J.G., Wykrzykowska, J.J., de Winter, R.J., Chevalier, B., Serruys, P.W., Onuma, Y. (2016) The impact of post-procedural asymmetry, expansion, and eccentricity of bioresorbable everolimus-eluting scaffold and metallic everolimus-eluting stent on clinical outcomes in the ABSORB II trial. *JACC Cardiovascular Interventions*, 9 (12) pp. 1231 – 1242
- Sykes, P., Innes, C., Harker, D., Whitehead, M., van der Griend, R., Lawton, B., Hibma, M., Fitzgerald, P., Dudley, N., Petrich, S., Faherty, J., Bergzoll, C., Eva, L., Parker, C., Sadler, L., Simcock, B. (2016) Observational management of CIN2 in young women: A prospective multicentre trial. *Journal of Lower Genital Tract Disease*, 20 (4) pp. 343- 347
- Tajuddin, S.M. et al incl. White, H.D. (2016) Large-Scale Exome-wide Association Analysis Identifies Loci for White Blood Cell Traits and Pleiotropy with Immune-Mediated Diseases. *American Journal of Human Genetics*, 99 (1) pp. 22 – 39
- Takaori, K., Bassi, C., Biankin, A., Brunner, T.B., Cataldo, I., Campbell, F., Cunningham, D., Falconi, M., Frampton, A.E., Furuse, J., Giovannini, M., Jackson, R., Nakamura, A., Nealon, W., Neoptolemos, J.P., Real, F.X., Scarpa, A., Sclafani, F., Windsor, J.A., Yamaguchi, K., Wolfgang, C., Johnson, C.D. (2016) International Association of Pancreatology (IAP)/European Pancreatic Club (EPC) consensus review of guidelines for the treatment of pancreatic cancer. *Pancreatology*, 16 (1) pp. 14-27
- Tan, G.X.V., Miranda, R., Sutherland, T. (2016) Causes of hepatic capsular retraction: a pictorial essay. *Insights into Imaging*, 7 (6) pp. 831- 840
- Tan, L., Taylor, E., Hannam, J.A., Salkeld, L., Salman, S., Anderson, B.J., Lerman, J. (2016) Pharmacokinetics and analgesic effectiveness of intravenous parecoxib for tonsillectomy ± adenoidectomy. *Paediatric Anaesthesia*, 26 (12) pp. 1126- 1135
- Tang, R., Prosser, D.O., Love, D.R. (2016) Evaluation of Bioinformatic Programmes for the Analysis of Variants within Splice Site Consensus Regions. *Advances in Bioinformatics*, art. no. 5614058



- Tankel, A.S., Nagree, Y., Jones, P., Mountain, D., Macdonald, S.P.J., Hill, P., et al. (2016) The VHOT (Vindaloo Hastens Outpouring of Troponins) Study. *Emergency Medicine Australasia*, 28 (6) pp. 654-657
- Tarr, G.P., Pak, N., Taghavi, K., Iwan, T., Dumble, C., Davies-Payne, D., Mirjalili, S.A. (2016) Defining the surface anatomy of the central venous system in children. *Clinical Anatomy*, 29 (2) pp. 157 – 164
- Teo, K., Johnson, M.H., Truter, S., Pandanaboyana, S., Windsor, J.A. (2016) Pain assessment in chronic pancreatitis: a comparative review of methods. *Pancreatology*, 16 pp. 931-939
- Tesson, S., Sundaresan, P., Ager, B., Butow, P., Kneebone, A., Costa, D., Woo, H., Pearse, M., Juraskova, I., Turner, S. (2016) Knowledge, attitudes and decision-making preferences of men considering participation in the TROG RAVESProstate Cancer Trial (TROG 08.03). *Radiotherapy and Oncology*, 119 (1) pp. 84-90
- Theadom, A., Mitchell, K., Roxburgh, R., Rodrigues, M., Taylor, T., Baker, R., Jones, K., Stewart, J., Poke, G., Hammond-Tooke, G. and O'Grady, G. (2016) Unmet needs of people living with myotonic dystrophy: Data from a national, population-based study. *Neuromuscular Disorders*, 26, p.S195
- Theadom, A., Rodrigues, M., Roxburgh, R. (2016) Knowledge of Sub-Types Important to Understanding of the Prevalence of Myotonic Dystrophy. *Neuroepidemiology*, 46 (3) p. 228
- Theadom, A., Roxburgh, R., Rodrigues, M., O'Grady, G., Taylor, T., Baker, R., Poke, G., Love, D., Hammond-Tooke, G., Ranta, A. and Jones, K. (2016) Prevalence of genetic muscle disorders (MD-Prev): A national, population-based study. *Neuromuscular Disorders*, 26, p.S206
- Tin, S.T., Elwood, J.M., Lawrenson, R., Campbell, I., Harvey, V., Seneviratne, S. (2016) Differences in breast cancer survival between public and private care in New Zealand: Which factors contribute? *PLoS ONE*, 11 (4) art. no. e0153206
- Tong, M., Kleffmann, T., Pradhan, S., Johansson, C.L., Desousa, J., Stone, P.R., James, J.L., Chen, Q., Chamley, L.W. (2016) Proteomic characterization of macro-, micro- and nano-extracellular vesicles derived from the same first trimester placenta: relevance for feto-maternal communication. *Human Reproduction*, 31 (4) pp. 687 – 699
- Torrie, J., Cumin, D., Sheridan, J., Merry, A.F. (2016) Fake and expired medications in simulation-based education: an underappreciated risk to patient safety. *BMJ Quality and Safety* 25 (12) pp. 917-920
- Trubuhovich, R.V. (2016) Scottish airway pioneers and historical accuracy. *Anesthesiology*, 125 (3) p. 602
- Turton, B., Durward, C., Manton, D., Bach, K., Yos, C. (2016) Socio-behavioural risk factors for early childhood caries (ECC) in Cambodian preschool children: a pilot study. *European Archives of Paediatric Dentistry*, 17 (2) pp. 97 – 105
- Vaduganathan, M., Harrington, R.A., Stone, G.W., Steg, P.G., Gibson, V.M., Hamm, C.W., Price, M.J., Prats, J., Deliargyris, E.N., Mahaffey, K.W., White, H.D., Bhatt, D.L. (2016) Variation in Patient Profiles and Outcomes in US and non-US Subgroups of the Cangrelor versus Standard Therapy to Achieve Optimal Management of Platelet Inhibition (CHAMPION) PHOENIX Trial. *Circulation: Cardiovascular Interventions*, 9 e003612
- van Vliet, E.O.G., Dijkema, G.H., Schuit, E., Heida, K.Y., Roos, C., van der Post, J.A.M., Parry, E.C., McCowan, L., Lyell, D.J., El-Sayed, Y.Y., Carr, D.B., Clark, A.L., Mahdy, Z.A., Uma, M., Sayin, N.C., Varol, G.F., Mol, B.W., Oudijk, M.A. (2016) Nifedipine maintenance tocolysis and perinatal outcome: an individual participant data meta-analysis. *BJOG: An International Journal of Obstetrics and Gynaecology*, 123 (11) pp. 1753 – 1760
- Vather, R., Josephson, R., Jaung, R., Kahokehr, A., Sammour, T., Bissett, I. (2016) Gastrografin In Prolonged Post-Operative Ileus –A Double-Blinded Randomised Controlled Trial. *ANZ Journal of Surgery*, 86 (S1) pp. 25 – 35
- Vather, R., Josephson, R., Jaung, R., Robertson, J., Bissett, I. (2016) Prospective Development of a Risk Predictionsystem For Prolonged Ileus Following Colorectalsurgery. *ANZ Journal of Surgery*, 86 (S1) pp. 25 – 35
- Vather, R., O'Grady, G., Arkwright, J.W., Rowbotham, D.S., Cheng, L.K., Dinning, P.G., Bissett, I.P. (2016) Restoration of normal colonic motor patterns and meal responses after distal colorectal resection. *British Journal of Surgery*, 103 (4) pp. 451 – 461
- Vedin, O., Hagström, E., Budaj, A., Denchev, S., Harrington, R.A., Koenig, W., Soffer, J., Sritara, P., Stebbins, Stewart, R., Swart, H.P., Viigimaa, M., Vinereanu, D., Wallentin, L., White, H.D., Held, C. on behalf of the STABILITY Investigators. (2016) Tooth loss is independently associated with poor outcomes in stable coronary heart disease. *European Journal of Preventative Cardiology*, 23 (8) pp. 839- 846
- Veitch, A.M., Vanbiervliet, G., Gershlick, A.H., Boustiere, C., Baglin, T.P., Smith, L.A., Radaelli, F., Knight, E., Gralnek, I.M., Hassan, C., Dumonceau, J.-M. (2016) Endoscopy in patients on antiplatelet or anticoagulant therapy, including Direct Oral anticoagulants: British Society of Gastroenterology (BSG) and European Society of Gastrointestinal endoscopy (ESGE) guidelines. *Gut*, 65 (3) pp. 374 – 389
- Vellara, H.R., Hart, R., Gokul, A., McGhee, C.N., Patel, D.V. (2016) In vivo ocular biomechanical compliance in thyroid eye disease. *British Journal of Ophthalmology*, doi: 10.1136/bjophthalmol-2016-309532
- Visvanathan, K., Lang, T., Ryan, K., Wilson, R., Skinner, N.A., Thompson, A.J., Ahn, S.H., Weilert, F., Abbott, W., Gane, E., Colledge, D., Li, K., Locarnini, S., Mansell, A., Revill, P.A. (2016) Toll-IL1 receptor-mediated innate immune responses vary across HBV genotype and predict treatment response to pegylated-IFN in HBeAg-positive CHB patients. *Journal of Viral Hepatitis*, 23 pp. 170-179
- Vogel, A., Lennon, D., Best, E., Leversha, A. (2016) Where to from here? The treatment of impetigo in children as resistance to fusidic acid emerges. *New Zealand Medical Journal*, 129 (1443) pp. 77-83



- Vranckx, P., White, H.D., Huang, Z., Mahaffey, K.W., Armstrong, P.W., Van De Werf, F., Moliterno, D.J., Wallentin, L., Held, C., Aylward, P.E., Cornel, J.H., Bode, C., Huber, K., Nicolau, J.C., Ruzyllo, W., Harrington, R.A., Tricoci, P. (2016) Validation of BARC Bleeding Criteria in Patients with Acute Coronary Syndromes the TRACER Trial. *Journal of the American College of Cardiology*, 67 (18) pp. 2135- 2144
- Wadasinghe, S.U., Metcalf, L., Metcalf, P., Perry, D. (2016) Maternal physiologic renal pelvis dilatation in pregnancy: Sonographic reference data. *Journal of Ultrasound in Medicine*, 35 (12) pp. 2659- 2664
- Waddell-Smith, K.E., Li, J., Smith, W., Crawford, J., Skinner, J.R. (2016)  $\beta$ -Blocker Adherence in Familial Long QT Syndrome. *Circulation: Arrhythmia and Electrophysiology*, 9 (8) art. no. e003591
- Wall, C.R., Gammon, C.S., Bandara, D.K., Grant, C.C., Ataoa Carr, P.E., Morton, S.M.B. (2016) Dietary patterns in pregnancy in New Zealand-influence of maternal socio-demographic, health and lifestyle factors. *Nutrients*, 8 (5) art. no. 300
- Wall, C.R., Stewart, A.W., Camargo, C.A., Scragg, R., Mitchell, E.A., Ekeroma, A., Crane, J., Milne, T., Rowden, J., Horst, R., Grant, C.C. (2016) Vitamin D activity of breast milk in women randomly assigned to Vitamin D3 supplementation during pregnancy. *American Journal of Clinical Nutrition*, 103 (2) pp. 382 – 388
- Wallentin, L., Held, C., Armstrong, P.W., Cannon, C.P., Davies, R.Y., Granger, C.B., Hagström, E., Harrington, R.A., Hochman, J.S., Koenig, W., Koenig, W., Krug-Gourley, S., Mohler, E.R. III, Siegbahn, A., Tarka, E., Steg, P.G., Stewart, R.A.H., Weiss, R., Östlund, O., White, H.D., on behalf of the STABILITY Investigators. (2016) Lipoprotein-Associated Phospholipase A2 Activity Is a Marker of Risk But Not a Useful Target for Treatment in Patients With Stable Coronary Heart Disease. *Journal of the American Heart Association*, 5 (6) e003407
- Wang, H.W., Escott, A.B., Phang, K.L., Petrov, M.S., Phillips, A.R., Windsor, J.A. (2016) Indications, techniques, and clinical outcomes of thoracic duct interventions in patients: a forgotten literature? *The Journal of Surgical Research*, 204 (1) pp. 213-27. PMID: 27451889
- Wang, K., McIlroy, K., Plank, L.D., Petrov, M.S., Windsor, J.A. (2016) Prevalence, Outcomes, and Management of Enteral Tube Feeding Intolerance: A Retrospective Cohort Study in a Tertiary Center. *JPEN*, 2016 Feb 5. [epub ahead of print]
- Wang, K.M.W., Stewart, R. (2016) Contributions of randomized clinical outcome trails to a major cardiology meeting. *International Journal of Cardiology*, 222 pp. 931- 932
- Wang, T.K.M. (2016) Risk Scores and Long-Term Mortality Prediction after Aortic Valve Replacement. *Annals of Thoracic Surgery*, 101 (6) p. 2428
- Wang, T.K.M. (2016) Risk scores for endocarditis surgery: Callout for reporting logistic models. *International Journal of Cardiology*, 202 p. 960
- Wang, T.K.M., Choi, D.H., Ramanathan, T., Ruygrok, P.N. (2016) Aortic Valve Replacement With or Without Concurrent Coronary Artery Bypass Grafting in Octogenarians: Eight-Year Cohort Study. *Heart Lung and Circulation*, 26 (1) pp. 82 – 87
- Wang, T.K.M., Choi, D.H., Ramanathan, T., Ruygrok, P.N. (2016) Comparing Performance of Risk Scores for Combined Aortic Valve Replacement and Coronary Bypass Grafting Surgery. *Heart Lung and Circulation*, 25 (11) pp. 1118- 1123
- Wang, T.K.M., Sathananthan, J., Marshall, M., Kerr, A., Hood, C. (2016) Relationships between Anticoagulation, Risk Scores and Adverse Outcomes in Dialysis Patients with Atrial Fibrillation. *Heart Lung and Circulation*, 25 (3) pp. 243 – 249
- Wang, T.K.M., Stewart, R.A.H., Ramanathan, T., Choi, D., Gamble, G., Ruygrok, P.N., White, H.D. (2016) Diagnosis of myocardial infarction and prognostic utility of high-sensitivity troponin T after isolated aortic valve replacement. *Clinical Trials and Regulatory Science in Cardiology*, 16 pp. 1- 5
- Wang, T.K.M., Wang, M.T.M., Pemberton, J. (2016) Risk scores and surgery for infective endocarditis: A meta-analysis. *International Journal of cardiology*, 222 pp. 1001- 1002
- Wang, T.K.M., Watson, T., Pemberton, J., Pemberton, L., Lowe, B., Ellis, C., Kingston, N., Ruygrok, P. (2016) Eosinophilic myocarditis: characteristics, diagnostics and outcomes of a rare condition. *Internal Medicine Journal*, 46 (9) pp. 1104 – 1107
- Webster, M. (2016) Early angiography and revascularisation for acute coronary syndromes in New Zealand. *New Zealand Medical Journal*, 129 (1428) pp. 6 – 8
- Wei, J., Lau, S., Blenkiron, C., Chen, Q., James, J., Kleffmann, T., Wise, M., Stone, P., Chamley, L. (2016) Trophoblastic debris modifies endothelial cell transcriptome in vitro: a mechanism by which fetal cells might control maternal responses to pregnancy. *Scientific Reports Nature*, 6 30632
- Weller, J. (2016) Improving procedural performance through warm-up and mental imagery. *British Journal of Anaesthesia*, 116 (3) pp. 315- 317
- Weller, J. (2016) New approaches to the development of expertise in anaesthesia. *British Journal of Anaesthesia*, 117 (5) pp. 545- 546
- Weller, J., Civil, I., Torrie, J., Cumin, D., Garden, A., Corter, A., Merry, A. (2016) Can team training make surgery safer? Lessons for national implementation of a simulation-based programme. *New Zealand Medical Journal*, 129 (1443) pp. 9-17
- Weller, J.M., Cumin, D., Civil, I.D., Torrie, J., Garden, A., McCormick, A.D., Gurusinghe, N., Boyd, M.J., Frampton, C., Selander, L., Cokorilo, M., Tranvik, M., Carlsson, L., Lee, T., Ng, W.L., Crossan, M., Merry, A.F. (2016) Improved scores for observed teamwork in the clinical environment following a multidisciplinary operating room simulation intervention. *New Zealand Medical Journal*, 129 (1439) pp. 59 – 67
- Wells, C.I., Robertson, J.P., O'Grady, G., Bissett, I.P. (2016) Trends in publication of general surgical research in New Zealand, 1996-2015. *ANZ Journal of Surgery*, DOI 10.1111/ans.13821.
- White, H.D. (2016) Recurrent ischemia and recurrent myocardial infarction: detection, diagnosis and outcomes. In: *Myocardial Infarction: A companion to Braunwald's Heart Disease*. Elsevier Inc. 2016; Chapter 23. P. 275- 285



- White, H.D., Westerhout, C.M., Alexander, K.P., Roe, M.T., Winters, K.J., Cyr, D.D., Fox, K.A.A., Prabhakaran, D., Hochman, J.S., Armstrong, P.W., Ohman, E.M. (2016) Frailty is associated with worse outcomes in non-ST-segment elevation acute coronary syndromes: Insights from the TaRgeted platelet Inhibition to cLarify the Optimal strateGY to medically manage Acute Coronary Syndromes (TRILOGY ACS) trial. *European Heart Journal Acute Cardiovascular Care*, 5 (3) pp. 231- 242
- Wilkinson, T.M., Dittmer, I.D. (2016) Should children be given priority in kidney allocation? *Journal of Bioethical Inquiry*, 13 pp. 535- 545
- Williamson, D.A., Ritchie, S., Keren, B., Harrington, M., Thomas, M.G., Upton, A., Lennon, D., Leversha, A. (2016) Persistence, Discordance and Diversity of *Staphylococcus aureus* Nasal and Oropharyngeal Colonization in School-aged Children. *Pediatric Infectious Disease*, 35 (7) pp. 744-748
- Wilson, N.C., Mudge, S., Stott, N.S. (2016) Variability of total step activity in children with cerebral palsy: Influence of definition of a day on participant retention within the study. *BMC Research Notes*, 9 (1) art. no. 411
- Wilson, T.G., Iyengar, A.J., Winlaw, D.S., Weintraub, R.G., Wheaton, G.R., Gentles, T.L., Ayer, J., Grigg, L.E., Justo, R.N., Radford, D.J., Bullock, A., Celermajer, D.S., Dalziel, K., Schilling, C., D'Udekem, Y. (2016) Use of ACE inhibitors in Fontan: Rational or irrational? *International Journal of Cardiology*, 210 pp. 95- 99
- Windsor, J.A., Pandanaboyana, S., Bartlett, A.S.J.R. (2016) Re: Is there an alternative to centralization for pancreatic resection in New Zealand? *ANZ Journal of Surgery*, 86 (9) p. 735
- Wise, M.R., Farrant, C., Coop, C. (2016) Levonorgestrel-releasing intrauterine system for endometrial hyperplasia (Protocol). *Cochrane Database of Systematic Reviews* 2017, Issue 5. Art. No.: CD012658. DOI: 10.1002/14651858.CD012658
- Wise, M.R., Gill, P., Lensen, S., Thompson, J.T., Farquhar, C.M. (2016) BMI trumps age in decision for endometrial biopsy: cohort study of symptomatic premenopausal women. *American Journal of Obstetrics and Gynecology*, 215 (5) pp. 598.e1-598.e8
- Wise, M.R., Jordan, V., Lagas, A., Showell, M., Wong, N., Lensen, S., Farquhar, C.M. (2016) Obesity and endometrial hyperplasia and cancer in premenopausal women: a systematic review. *American Journal of Obstetrics and Gynecology*, 214 (6) pp. 689.e1-689.e1
- Wong, G., Chua, S., Chadban, S.J., Clayton, P., Pilmore, H., Hughes, P.D., Ferrari, P., Lim, W.H. (2016) Waiting Time Between Failure of First Graft and Second Kidney Transplant and Graft and Patient Survival. *Transplantation*, 100 (8) pp. 1767- 1775
- Wong, J., Moore, H., Roger, M., McKee, C. (2016) CT enterography: Mannitol versus Volumen. *Journal of Medical Imaging and Radiation Oncology*, 60 (5) pp. 593 – 598
- Woon, S.T., Ameratunga, R. (2016) Comprehensive genetic testing for primary immunodeficiency disorders in a tertiary hospital: 10-year experience in Auckland, New Zealand. *Allergy Asthma and Clinical Immunology*, 12 p. 65
- Wouldes, T.A., Battin, M., Coat, S., Rush, E.C., Hague, W.M., Rowan, J.A. (2016) Neurodevelopmental outcome at 2 years in offspring of women randomised to metformin or insulin treatment for gestational diabetes. *Archives of Disease in Childhood: Fetal and Neonatal Edition*, 101 (6) pp. F488- F493
- Wu, J., Jain, R., & Douglas, R. (2016). Effect of paranasal anatomical variants on outcomes in patients with limited and diffuse chronic rhinosinusitis. *Auris Nasus Larynx*, 44 (4) pp. 417 - 421
- Wu, L.M., Premkumar, R., Phillips, A.R., Windsor, J.A., Petrov, M.S. (2016) Ghrelin and gastroparesis as early predictors of clinical outcomes in acute pancreatitis. *Pancreatology*, 16 (2) pp. 181-188
- Xiao, A., Tan, M., Wu, L., Asrani, V., Windsor, J.A., Yadav, D., Petrov, M. (2016) Global incidence and mortality of pancreatic diseases: a systematic review, meta-analysis and meta-regression of prospective population-based cohort studies. *Lancet Gastroenterology and Hepatology*, 1 pp. 45- 55
- Xu, J., Begley, P., Church, S.J., Patassini, S., McHarg, S., Kureishy, N., Hollywood, K.A., Waldvogel, H.J., Liu, H., Zhang, S., Lin, W., Herholz, K., Turner, C., Synek, B.J., Curtis, M.A., Rivers-Auty, J., Lawrence, C.B., Kellett, K.A.B., Hooper, N.M., Vardy, E.R.L.C., Wu, D., Unwin, .D., Faull, R.L.M., Dowsey, A.W., Cooper, G.J.S. (2016)
- Elevation of brain glucose and polyol-pathway intermediates with accompanying brain-copper deficiency in patients with Alzheimer's disease: Metabolic basis for dementia. *Scientific Reports*, 6, art. no. 27524
- Yoon, J.J., Misra, S.L., McGhee, C.N., Patel, D.V. (2016) Demographics and ocular biometric characteristics of patients undergoing cataract surgery in Auckland, New Zealand. *Clinical and Experimental Ophthalmology*, 44 (2) pp. 106- 113
- Young, R. P., Chen, C., Hopkins, R. J., & Gamble, G. D. (2016) Eligibility For The Statcopes Trial: A Review Of Statin Use In A Hospital-Based Cohort Of COPD Patients. In *American Journal of Respiratory and Critical Care Medicine*, Vol. 193
- Young, R. P., Duan, F., Greco, E., Hopkins, R. J., Chiles, C., Gamble, G. D., & Aberle, D. (2016) Lung Cancer-Specific Mortality Reduction With CT Screening: Outcomes According To Airflow Limitation In The Acrin N1st Sub-Study (n=18,475). In *American Journal of Respiratory and Critical Care Medicine*, Vol. 193
- Young, R. P., & Hopkins, R. J. (2016) Measures of outcome in lung cancer screening: maximising the benefits. *Journal of thoracic disease*, 8 (10) E1317-E1320
- Young, R. P., Hopkins, R. J., & Hanson, C. (2016) Connecting Dietary Fiber Directly with Good Lung Health.. *Annals of the American Thoracic Society*, 13 (10) pp. 1869 – 1870
- Young, R. P., Hopkins, R. J., & Marsland, B. (2016) The Gut-Liver-Lung Axis. Modulation of the Innate Immune Response and Its Possible Role in Chronic Obstructive Pulmonary Disease.. *American Journal of Respiratory Cell and Molecular Biology*, 54 (2) pp. 161- 169
- Young, S., Perry, W.R., Leodoro, B., Nosa, V., Bissett, I., Windsor, J.A., Dare, A.J. (2016) Challenges and Opportunities in the Provision of Surgical Care in Vanuatu: A Mixed Methods Analysis. *World Journal of Surgery*, 40 (8) pp. 1865-1873
- Yuan L., O'Grady, G., Milne, T., Jaung, R., Vather, R., Bissett, I.P. (2016) Prospective comparison of return of bowel function after left versus right colectomy. *ANZ Journal of Surgery*, DOI 10.1111/ans.13823
- Yuan, L., O' Grady, G., Milne, T., Vather, R., Bissett, I. (2016) Is Gut Function Recovery Time Different Between left and Right Colectomies? *ANZ Journal of Surgery*, 86 (S1) pp. 45 – 67



## DIRECTORY

### Research Office

#### Postal Address

Private Bag 92024  
Auckland Mail Centre, 1142, New Zealand

#### Physical Address

14<sup>th</sup> Floor, Support Building  
Auckland City Hospital  
2 Park Road, Grafton  
Auckland 1023, New Zealand

Email: [researchoffice@adhb.govt.nz](mailto:researchoffice@adhb.govt.nz)

Website: <http://www.adhb.health.nz/health-professionals/research/>

<b>Mary-Anne Woodnorth</b>	Manager
<b>Helen Wihongi</b>	Director of Māori Health Research
<b>Rong Hu</b>	Statistical Advisor and Data Analyst
<b>Genevieve Morris</b>	Grants Co-ordinator
<b>Peter Reed</b>	Statistician – Starship Children’s Health
<b>Mary Righton</b>	Research Co-ordinator
<b>Tim Sato</b>	Research Advisor and Co-ordinator
<b>Kim Southey</b>	Kaupapa Māori Analyst

### Research Governance Committee

<b>Margaret Wilsher</b>	Chair, Chief Medical Officer, Head of Research
<b>Kim Brackley</b>	Lead Pharmacist – Education and Training
<b>Richard Frith</b>	Chair of A+ Trust
<b>Sarah Hunter</b>	Research Manager, Paediatric Haematology and Oncology
<b>Colin McArthur</b>	Clinical Advisor for Research
<b>Bruce Northey</b>	General Counsel
<b>Andrew Shelling</b>	Assistant Dean – Research, Faculty of Medical and Health Sciences, University of Auckland

### Research Review Committee

<b>Colin McArthur</b>	Chair and Clinical Advisor for Research
<b>Kim Brackley</b>	<b>Lalit Kalra</b>
<b>Cass Byrnes</b>	<b>Helen Lindsay</b>
<b>Douglas Campbell</b>	<b>Ben Loveday</b>
<b>Michael Collins</b>	<b>Cathrine Patten</b>
<b>Sanjeev Deva</b>	<b>Stephen Ritchie</b>
<b>Kevin Ellyett</b>	<b>Peter Ruygrok</b>
<b>Iris Fontanilla</b>	<b>Michael Shepherd</b>
<b>Craig Jefferies</b>	<b>Ken Whyte</b>

### Māori Research Review Committee

<b>Heta Tobin</b>	kaumatua - Ngati Whatua
<b>Tereki Stewart</b>	Chair – Ngati Whatua
<b>Georgina Martin</b>	committee member – Waipareira Whānau Trust
<b>Kim Southey</b>	committee member – Kaupapa Māori Analyst
<b>Dr Karen Bartholemew</b>	committee member – Māori Public Health Physician



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 1300 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, Young Investigator 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 2016.





Auckland District Health Board

# Research

Annual Report 2016



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



**AUCKLAND**  
DISTRICT HEALTH BOARD  
*Te Toka Tumai*