# Research Report 2018







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### Years of clinical trials excellence



30 years of improving global health outcomes through clinical trials and research

Oncology trials & other research Cardiovascular trials & other research

Diabetes trials & other research Neonatal & perinatal trials & research

Health economics

Integrating evidence

Biostatistics

### Directors' report

'Our mission is to achieve best practice and improve health outcomes in healthcare in Australia and internationally through the best use of clinical trials research.'

### NHMRC Clinical Trials Centre (CTC)

This year the CTC celebrated 30 years since it was established in 1988 with a grant from the NHMRC. The trials we have undertaken with our collaborators and peers in the past 30 years have resulted in important new evidence and breakthroughs for those living with cancer, cardiovascular disease and diabetes, and for premature babies and their mothers. Our studies have helped to reduce mortality and illness, improve quality of life, and helped patients and hospitals to avoid unnecessary treatments and associated costs. With health conditions improving in society, trials need to target the most pressing health challenges, and trial evidence needs to be integrated into clinical practice efficiently and effectively. We are working hard on a number of related projects with the same mission we started with 30 years ago: to improve clinical practice and to improve health outcomes.

Some of the most satisfying outcomes of clinical trials are those that can be implemented by the medical community quickly and easily to save lives.

That was the case with the Australian Placental Transfusion (APTS) study, winner of the Trial of the Year award from the Australian Clinical Trials Alliance. APTS, led by Neonatal and Perinatal Head Professor William Tarnow-Mordi. The trial, together with a combined analysis of all other relevant randomised trials, showed that delaying clamping of the umbilical cord by just 60 seconds in pre-term babies might save many tens of thousands of lives worldwide ever year. The study involved more than 1,500 premature babies in seven countries, and was published in the New England Journal of Medicine. Results from the study are already being implemented by hospitals and reflected in professional guidelines.

Precision cancer medicine is one future-focussed project we are working on in partnership with the Garvan Institute. The MoST (Molecular Screening and Therapeutics) trials match therapies to patients with rare and uncommon cancers on the basis of genetic information, instead of the type of tumour they have. Rare and uncommon cancers when considered together still account for over 50% of cancer deaths in Australia every year. Since 2016, 1,000 patients with these cancers have been screened at the Garvan for the MoST trial program with the potential to receive targeted therapy related to cancer molecular profile or >







'We are working hard on a number of related projects with the same mission we started with 30 years ago: to improve clinical practice and to improve health outcomes.'

< the latest immunotherapy. We were very pleased to see the Federal Government reward this work with a grant of \$50 million over five years awarded in late 2018 to the Australian Genomic Cancer Medicine Program, with about half of this supporting the MoST program. This funding will help increase the number of patients who can participate in MoST trials around Australia.

Heart attacks and related cardiovascular disease are the number one cause of death globally. In response, the RESTORE-MI trial, led by Associate Professor Martin Ng and Professor Tony Keech, is targeting those patients who have already experienced a heart attack and had their arteries or veins widened (angioplasty). Around 50% of these patients are not benefiting from the angioplasty because their clots have moved further down into the microvessels of the heart. RESTORE-MI, which received further funding from the NHMRC in 2018, is identifying these patients and seeing whether a thrombolytic drug, tenecteplase, can reduce blood flow and pressure around the heart. If the drug is successful, patients will be at lower risk of suffering from another heart attack. Another key topic for the future is better integration of patient-reported outcome measures (PROMs) in trials and their use to better direct patient care. Research in this field is being undertaken by our Health Economics team, led by Associate Professor Rachael Morton in collaboration with the Australia and New Zealand Dialysis and Transplant Registry (ANZDATA). Their Symptom Monitoring With Feedback Trial (SWIFT) was awarded \$1.7 million in funding from the NHRMC this year. SWIFT seeks to determine if symptom monitoring can improve quality of life and survival in patients with end-stage kidney disease on haemodialysis. Currently the patient's voice is not accounted for. In a unique approach, SWIFT accesses patients through the ANZDATA registry. This registry, like many others, does not currently report on patient symptoms and quality of life. Adding these two measures will help drive future research efforts towards better patient outcomes for those with end-stage renal failure. This trial could set a benchmark for other registry-based trials.

In the middle of the year, John had the pleasure of undertaking several months' work at the Julius Center, Utrecht University in the Netherlands, one of the top ranked academic medical centres in Europe. It was an exciting opportunity to further expand CTC's network with leading researchers in related fields particularly related to improving methods in clinical trials and related prognostic studies. This has seen new partnerships in assessing evidence from patient data to better inform personalised decision making.

There are many other achievements in this report that demonstrate the CTC's commitment to trials excellence, and to improving clinical practice and patients' lives. Congratulations to our dedicated and talented staff throughout the entire organisation. These achievements would not be possible without our highly valued collaborators and partners. We are fortunate to work with exceptional people and organisations in Australia and internationally, and we look forward to strengthening these ties over the next 30 years to advance healthcare and the lives of patients.

John Simes & Tony Keech

# Strategy



John Simes

Vera Terry

As part of the CTC's Strategic Plan 2017-21, we have identified six core strategic objectives to help us achieve our vision. Some examples of the progress we made in 2018 for each objective include:

### 1 Bring together world-class expertise in trial methods and conduct, L clinical disciplines, biostatistics, health economics, biochemical and molecular sciences

We are taking up the challenge of finding solutions to rare and uncommon cancers in our MoST trials, in partnership with The Garvan Institute. These trials are made possible through partnerships with experts in rare and uncommon cancers, six hospitals across Australia, five pharmaceutical companies, two biotechnological companies, and the federal government.

### **O** Build international collaborations

L The CTC works with impressive international collaborators across all of our areas of research, including new clinical trial sites in Japan and Taiwan for Oncology trials; new research ties with the UMC Utrecht led by our Director, Professor John Simes; our Diabetes team continued their fellowships and collaborations with India and Danish-based institutions; and our Health Economics team have been collaborating with the European Centre for Disease Control on migrant screening guidelines for the EU.

3 Embed translational studies into our research In 2018, 52 of our Oncology trials had translational research activities embedded. This involved collecting over 12,000 samples from 615 sites. These samples can help predict a patient's response to a particular treatment or they can help better forecast survival.

### Deliver quality education, training, teaching and development **t** programs

Some examples of our leadership in education and training include our involvement in post-graduate education, with our staff helping teach over 70 students in the Master of Clinical Trials Research and Master of Biostatics degrees each year. We also hold short courses and masterclasses in key areas, like study design methods and the economics of trials, and our academics supervise PhD students in a range of trials research areas.



Extend our methodological work in adaptive trial designs, O patient reported outcomes, prognostication, diagnostic test evaluation and cost-effectiveness analysis in practical application Our Health Economics team working on the SWIFT trial that will see patientreported experience outcomes and measures used for patients with kidney disease. This information, when factored into treatment guidelines, could help to improve the quality of life and survival rates of patients.

Combine findings from multiple trials in systematic reviews  ${\sf O}$  and to undertake health economic analyses to provide robust evidence for health care decisions for personalised care, guidelines and policy formulation

Our Integrating Evidence team helped audit 250 Cochrane reviews in the field of breast cancer, guiding future research and policy decisions. They also were awarded a grant to synthesise data from more than 100 trials in order to determine the best time to clamp the umbilical cord in preterm births compared to alternative policies, such as cord milking.



### 2018 CTC **Executive Team**

Director: John Simes, Deputy Director: Tony Keech, Business Director: Vera Terry, Director **Clinical Trial Operations:** Burcu Vachan

### 2018 awards



### January

Dr Mugdha Joglekar was awarded the Australia-India Early-Mid Career *Research Fellowship* for travelling to Professor Ranjan Yajnik's (collaborator on PREDICT-T1D study) lab in India for research work in Type 1 diabetes.

### March

Rebecca Mister received the Sydney Medical School Award for Exceptional Performance by Professional Staff, for her outstanding support of the activities in the CTC.

Dr Hao-Wen Sim was awarded the Les Irwig General Epidemiology *Award* by the University of Sydney for top student in Epidemiology Methods and Uses in 2017.

Dr Hao-Wen Sim was awarded Top Student Prize by the Australasian Epidemiology Association in recognition of exemplary performance in Epidemiology Methods and Uses unit, undertaken as part of the degree of Masters of Biostatistics at University of Sydney in 2017.

### April

A/Prof Rachael Morton received the inaugural Robinson Fellowship from the University of Sydney. Only ten are awarded each year, with at least 50% going to women, for a term of four years, and the grant is worth up to \$150,000 per annum.

### May

Prof William Tarnow-Mordi and his team were awarded ACTA Trial of the Year for their ground-breaking insight into cord clamping of pre-term infants in the APTS study.

Mbathio Deng received the University of Sydney Faculty of Medicine's Peter Bancroft prize for her PhD research into managing stress and fear of cancer recurrence in early-stage melanoma patients at high risk of further melanoma.

Cody Lee Maynard received the *Best Poster Award* for presenting her research work at the NSW Stem Cell Network workshop.

### June

Cody Lee Maynard received the Postgraduate Travel Award for presenting her research poster at the American Diabetes Association meeting in Orlando, USA.

A/Prof Anand Hardikar received the JDRF-Macquarie Foundation Innovation Award to initiate collaborative research on an innovative project idea related to Type 1 diabetes.

### August

A/Prof Rachael Morton received a Kidney Health Australia Award for 'improving quality of life and duration of life for those living with chronic kidney disease'.

Dr Wilson Wong received the Australian Diabetes Society Travel Grant Award to attend and give an oral presentation at the annual Australasian Diabetes Congress (ADC) meeting held in Adelaide.

Mariam Chendeb received the

Professor Judyth Sachs PACE Prize for a clinical trials internship with the Faculty of Medicine and Health at Macquarie University.

Dr Wilson Wong received the Pincus-Taft Young Investigator Finalist Award at the ADC meeting in Adelaide.

### September

nan

Dr Mugdha Joglekar was awarded Best Image of the Conference at CUDOS in Qatar for the best confocal image of human islets.

Dr Anh Tran received a Young Investigator Award at the ANZ Society of Nephrology Conference for her paper 'Annual screening versus no screening for asymptomatic coronary artery disease in wait-listed kidney transplant candidates: A modelled cost-effectiveness analysis'.

### October

Kylie Hunter was awarded the Best *Poster Prize* at the Sydney Cancer Conference for her poster on breast cancer screening using tomosynthesis or mammography.

### November

Dr Peey-Sei Kok was awarded Best of the Best Orals – clinical research featuring mesothelioma at the Clinical Oncology Society of Australia meeting.

Lene Seidler received a *Research* Training Program scholarship from the University of Sydney.

Prof John Simes received the John Zalcberg OAM Award for Excellence in AGITG Research at the 20th Annual AGITG Annual Scientific Meeting.





### December

A/Prof Anand Hardikar was awarded the Danish Diabetes Academy (DDA) Visiting Professorship to continue collaborative research exchanges with researchers in and around Copenhagen.

Dr Wilson Wong received the Australian Islet Study Group (AISG) *Meeting Award* (JDRF Travel award (T1D)) to attend and present a poster at the 11th annual AISG meeting held in Canberra.

Dr Hao-Wen Sim received the Judy Simpson Biostatistics Scholarship from the University of Sydney, awarded annually to students receiving the highest marks in their units of study.

The following staff received the CTC Staff Award in recognition for their outstanding contribution to the CTC: Burcu Vachan. Ha Le. Sarah Finlayson, Andrew Martin, Katrin Sjoquist, Ilka Kolodziej.

## Our 30 year journeý 1988-2018

The CTC was born out of a need to provide evidence to help clinicians provide the best care and improve the lives of patients. Over the past 30 years we have lived up to this mission, in Australia and around the world.



### INITIAL FUNDING The CTC begins with

two staff, John and his assistant.

#### A BIG YEAR In the first year the

CTC recruits 2,000 patients for trials.

### **HEART ATTACKS**

Completed in 1997, the CTC and collaborators LIPID trial is the biggest investigate the best lifesaving treatments for cholesterol-lowering patients experiencing a study in the world, with heart attack with over over 9.000 patients. 40,000 trial participants.

LIPID

**IMPROVING** 

### ANZ

DESIGN by 1991, the CTC is The CTC adds expertise running 15 multicentre in research on the trials in australia and design, conduct, New Zealand involving management and 600 investigators. analysis of clinical trials.

### 10.000 FIELD STUDY

10,000 patients from Australia and New Zealand participate in a study that finds a drug can help diabetes sufferers reduce disability risks.

### CANCER COVERED

CTC and its collaborators conduct 30 trials on some of the most common cancers.

### 664 **INTERNATIONAL**

SYMPOSIUM CTC hosts the first International Clinical **Trials Symposium** in Sydney, with 664 attending.

### **BREAST CANCER**

An Australian first, the SNAC trial discovers women with breast cancer should choose **Biopsy-based surgical** management for better quality of life.

### \$1.5m NATIONAL REGISTRY

CTC helps establish a national registry for trials with \$1.5M in funding from the NHMRC.

### MEDICARE

Members of CTC review existing literature around diagnostic tests for the government setting guidelines for Medicare funding.

### COGNO

In 2007, the Cooperative Trials Group for Neuro-Oncology is set up and housed at the CTC

## CARDIOVASCULAR

Work with seven collaborator groups sees CTC research cover 75% of cancer disease in Australia.

75%

CANCER

SYDNEY

CATALYST

a research centre

The CTC helps establish

involving researchers

across NSW that aims

and clinicians from

to rapidly translate

discoveries into

practice.

### PREMATURE BABIES

High oxygenation levels are found to increase chances of survival in premature babies, according to a CTC-led study (boost II).

To view videos and to access a book we produced to celebrate CTC's 30th birthday, head to our website https://ctc.usyd.edu.au/news-events/events/ctc-30th-symposium/

To help ease the burden of cardiovascular disease, the CTC helps undertake nine trials involving 27,000 patients.

### **GENETICS**

In partnership with the Garvan Institute, the CTC investigates assigning 1,000 patients to treatments based on their genes instead of their symptoms (MOST trial).

#### **RECTAL CANCER**

A CTC and AGITG study (A La CaRT) suggests open surgery may be better for patients with rectal cancer.

### **SKIN CANCER**

In partnership with the Melanoma Institute, the **CTC** shows surveillance clinics would help cut costs and improve outcomes for at-risk skin cancer patients.

UMBLICAL CORD A CTC trial that shows

clamping the umbilical cord 60 seconds later can improve survival rates among premature babies wins the ACTA trial of the year award.

### CANNABIS

Can medical cannabis help chemo users with nausea? CTC completes the first stage of the Cannabiscinv trial.

### Oncology trials

In the CTC oncology trials division our focus is to provide innovative clinical research to inform clinical practice, improve health outcomes and save lives in the expert areas of breast, oesophageal, gastric, colorectal, lung, gynaecological, neurological and urogenital cancers.

The CTC works collaboratively with five of the 13 national cancer cooperative groups in Australia to design and run clinical trials. We are a leader in developing and conducting novel trial designs, including adaptive designs and genomics-driven screening. We have collaborated in over 180 projects, which thousands of patients have joined.

Martijn Oostendorp, Associate Oncology Program Manager



Hannora Jurkovic, Associate Oncology Program Manager 'I am extremely proud to be part of CTC's oncology team. Our ground breaking, collaborative studies have helped improve the outcomes of so many people affected by cancer.'



![](_page_10_Picture_0.jpeg)

### Brain cancer

Partner: Cooperative Trials Group for Neuro-Oncology

The Cooperative Trials Group for Neuro-Oncology (COGNO) is a network of clinicians, researchers, consumer representatives and allied health professionals who are dedicated to increasing awareness, improving treatment and end-of-life care for patients with brain tumours. The CTC coordinates the trials that are developed by the COGNO network. The group is located at the CTC.

<u>Click here</u> for more information.

![](_page_10_Figure_5.jpeg)

### 2018 highlights

COGNO received a \$2.5 million grant from the Australasian Brain Cancer Mission to improve treatments and outcomes for adults with brain cancer by increasing access to high quality international cancer clinical trials.

VERTU trial: reached target of 125 patients in glioblastoma (GBM). The trial investigates if the addition of a PARP inhibitor improves treatment for patients who have a common mutation in their cancer that makes currently available treatment less effective.

NUTMEG trial: opened for recruitment in February 2018 and is continuing to gain momentum, with more sites opening (see trial in focus).

### Brain cancer in numbers

1,549 estimated number of deaths from brain cancer in 2019 (932 men + 617 women) 3.1% estimated % of all deaths from cancer in 2019

![](_page_10_Picture_13.jpeg)

chance of surviving at least five years (2010-2014 data)

Source: Australian Government, Cancer Australia

![](_page_10_Picture_16.jpeg)

### Trial in focus: NUTMEG

Will the addition of an immune checkpoint inhibitor (nivolumab) to standard treatment of GBM have a survival benefit for patients over 65 years of age?

### Challenge

We know that mutations increase as we age and brain cancer survival is worse in older patients. Using radiotherapy and chemotherapy (temozolomide) to treat GBM, a common and deadly form of brain cancer, is not as effective in elderly patients.

### Trial

Nivolumab has revolutionised the treatment of other cancers such as melanoma and non-small cell lung cancer (NSCLC). The NUTMEG trial will examine the impact of adding this novel systematic therapy to TMZ chemotherapy to prolong survival in the elderly GBM population.

NUTMEG is a Phase II study investigating the use of nivolumab and temozolomide compared with only temozolomide in newly diagnosed elderly patients. NUTMEG will be the first randomised clinical trial to use immunotherapy and chemotherapy in elderly brain cancer patients with GBM.

The trial opened to recruitment in February 2018 and recruited 21 patients across 11 sites within Australia in 2018. Approximately 18–20 sites are expected to participate in the NUTMEG trial, and we hope to recruit a further 81 patients to reach our target of 102 patients.

### Impact

DATE:

START |

The trial has the potential to impact GBM clinical management guidelines in Australia and globally, and improve elderly patients' responses to treatment for GBM.

The biospecimens collected from NUTMEG and the corresponding clinical data will be an invaluable resource for correlative studies and future research questions.

SITES OPEN

(AUSTRALIA ONLY)

### **TRIAL SNAPSHOT**

PATIENTS

RECRUITED

![](_page_11_Picture_12.jpeg)

### Gastro-Intestinal cancer

Partner: Australasian Gastro-Intestinal Trials Group

The CTC has collaborated with the Australasian Gastro-Intestinal Trials Group (AGITG) since 1991 to conduct clinical trials to improve treatments for gastro-intestinal cancers.

Together we have conducted over 57 trials involving more than 5,000 patients. Our research has changed treatment practices and improved patient life expectancy and quality of life.

Click here for more information.

### GI cancer in numbers

# 28,880

Australians are diagnosed every year with GI cancer

### 38

Australians die every day of the year as a result of GI cancer; 1 person dies every 37 minutes

![](_page_11_Picture_24.jpeg)

![](_page_11_Picture_25.jpeg)

Source: Australian Government, Cancer Australia

![](_page_12_Picture_0.jpeg)

### 2018 highlights

Three new studies opened to recruitment (SPAR, MONARCC, LIBERATE), investigating important research questions regarding the profiling and treatment of rectal and colorectal cancer.

MASTERPLAN trial: awarded a \$2 million Medical Research Future Fund grant, recognising its importance in addressing the needs of patients with pancreatic cancer (see trial in focus).

INTEGRATE II trial: opened sites in Japan and Taiwan (an AGITG first). This Phase III multinational clinical trial investigates treatment options for patients with advanced gastro-oesophageal cancer. It is already open in Australia, New Zealand, Canada and Korea and is expected to open in the USA in 2019.

Trial in focus: MASTERPLAN

### Challenge

Pancreatic cancer has the fifth highest incidence of cancer-related mortality and accounts for the deaths of more than 2,900 Australians annually.

The five-year survival for patients with pancreatic cancer is only 8% and approximately half of all patients experience locoregional recurrence, a major contributor to the substantial morbidity and mortality of pancreatic cancer, within 12 months after initial treatment.

### Trial

MASTERPLAN explores using stereotactic radiotherapy (SBRT), an innovative way of delivering targeted radiation therapy in addition to modern chemotherapy. It uses significant technological advances in radiation techniques to deliver a higher dose to targeted areas.

MASTERPLAN is the first published randomised trial that explores SBRT for pancreatic cancer. The trial includes ten sites in Australia and New Zealand.

Funding has been provided through a grant from the Medical Research Future Fund for Low Survival Cancers and Diseases. This highly competitive grant opportunity is awarded to innovative clinical trials of the highest quality design that address low survival cancers in Australians.

### Impact

MASTERPLAN addresses some of the most significant morbidities experienced by patients with pancreatic cancer. A reduction in recurrence may translate into improved overall survival.

The trial is currently in start-up, with recruitment commencing in 2019. Recruitment is expected to remain open until 2023.

![](_page_12_Picture_16.jpeg)

Is the addition of stereotactic radiotherapy to standard chemotherapy safe and beneficial for patients with pancreatic cancer?

PATIENTS RECRUITED

2018 RESEARCH REPORT 25

![](_page_13_Picture_0.jpeg)

# Gynaecological cancer

Partner: Australia and New Zealand Gynaecological Oncology Group

The Australia and New Zealand Gynaecological Oncology Group (ANZGOG) is the peak national gynaecological cancer clinical trials organisation for Australia and New Zealand.

The CTC collaborates with ANZGOG to conduct clinical trials to test novel therapies that aim to improve treatments and patient outcomes for the prevention and mitigation of gynaecological cancer.

Click here for more information.

![](_page_13_Figure_6.jpeg)

### 2018 highlights

Three new trial concepts were developed to investigate important research questions in gynaecological cancer, including advanced endometrial cancer (ATtEND); prevention of ovarian cancer in women with BRCA1/2 mutations (STICs and STONEs); and the optimisation of peri-operative care for women undergoing ovarian cancer surgery (TIPS).

ECHO trial: received an additional grant from Cancer Australia, enabling an additional 120 women to be recruited. The trial looks at the potential benefits of exercise for women with ovarian cancer (see trial in focus).

PHAEDRA trial: achieved its recruitment target of 71 patients in early September, four months ahead of expectations. This trial aims to determine whether immunotherapy (durvalumab) will benefit patients with advanced endometrial cancer. Early results will be available in 2019.

Gynaecological cancer in numbers

6,454

estimated new cases of gynaecological cancer diagnosed in 2019 2,040 estimated number

of deaths from

gynaecological cancer in 2019

![](_page_13_Picture_15.jpeg)

Source: A Governm

ource: Australian overnment, ancer Australia

![](_page_13_Picture_18.jpeg)

### Trial in focus: ECHO

Does exercise positively impact physical wellbeing and overall health for patients with ovarian cancer undergoing chemotherapy?

### Challenge

Ovarian cancer is the sixth most common cause of death from cancer in women. It is typically diagnosed at a late stage and has a five-year survival rate of less than 45%.

### Trial

ECHO is a multicentre, randomised trial that will determine if an individually tailored exercise program for people with ovarian cancer under chemotherapy can improve wellbeing and overall health.

Does exercise assist with progression-free survival, overall survival, physical wellbeing, function and quality of life at six and 12 months post-randomisation? Does it improve chemotherapy adherence, lead to fewer and less severe adverse events during chemotherapy and lower healthcare costs for complications of ovarian cancer treatment?

ECHO began recruiting in 2015. At the end of 2018, 185 patients had been randomised across eight Australian sites. CTC and ANZGOG are working with Queensland University of Technology on the trial. Cancer Australia provided funding for further support (2019–2021), allowing an additional 120 women to be recruited to the study.

### Impact

ECHO will provide key evidence of the impact exercise has on women undertaking chemotherapy for ovarian cancer. The trial has the potential to influence guidelines around treatment, improve patient health and recovery, and provide a foundation for further studies to be undertaken around other cancers.

### **TRIAL SNAPSHOT**

![](_page_14_Picture_11.jpeg)

![](_page_14_Picture_12.jpeg)

### Lung cancer Partner: Australasian Lung Cancer Trial Group

The Australasian Lung Cancer Trial Group (ALTG) is an initiative of Lung Foundation Australia's Lung Cancer National Program. The CTC collaborates with the ALTG to facilitate high quality clinical research in Australia and New Zealand.

Over the past five years, the partnership has continued to expand with new trials looking at immunotherapy and targeted therapies for lung cancers, as well as renewed interest in mesothelioma.

Click here for more information.

Lung cancer in numbers

9,198 estimated number of deaths from lung cancer in 2018 (5,229 men + 3,969 women) 18.9% estimated % of all deaths from cancer in 2018

![](_page_14_Picture_21.jpeg)

![](_page_14_Picture_22.jpeg)

Source: Australian Government, Cancer Australia

![](_page_15_Picture_0.jpeg)

### 2018 highlights

The portfolio of lung trials grew significantly, as did the number of patients recruited, increasing by over 50% (from 117 in 2017 to 185 in 2018).

ILLUMINATE trial: secured funding and opened in Australia. This trial examines advanced EGFR mutant non-squamous NSCLC and is a unique partnership between the ALTG/CTC and the Taiwan Cooperative Oncology Group, the first of its kind.

Patient recruitment continued in trials of new therapies in all types of lung cancers, including: non-small cell (BR.31, BR.34, and OSCILLATE), mesothelioma (DREAM), radiotherapy and antibody therapy for advanced NSCLC (NIVORAD), small cell lung cancer (STIMULI), and early referral to palliative care in patients with a recent diagnosis of advanced thoracic cancer (PEARL).

![](_page_15_Picture_5.jpeg)

![](_page_15_Picture_6.jpeg)

### Trial in focus: OSCILLATE

### What is the impact of alternating medications (osimertinib and gefitinib) for patients with advanced lung cancer?

Approximately 50% to 60% of patients with advanced NSCLC develop resistance to first-generation medications such as gefitinib and erlotinib due to the acquisition of a mutation (T790M). The inhibitor osimertinib is effective against the T790M mutation, however resistance to this medication is common among patients.

OSCILLATE is a Phase II trial testing the effect of alternating osimertinib with gefitinib in patients who have advanced NSCLC and have the T790 mutation that makes them resistant to inhibitor drugs.

This trial is investigating a novel strategy of alternating therapy to prevent or delay resistance to osimertinib, which in turn may enhance a patient's response to the drug and their overall condition. Recruitment began in 2017 across 14 sites in Australia. A total of 45 patients have been recruited.

OSCILLATE could provide evidence for a strategy to help patients with advanced lung cancer become less resistant to osimertinib, a drug that

![](_page_15_Picture_14.jpeg)

45

![](_page_16_Picture_0.jpeg)

### Urogenital and Prostate cancer

Partner: Australian and New Zealand Urogenital and Prostate Cancer **Trials Group** 

The CTC collaborates with the Australian and New Zealand Urogenital and Prostate Cancer Trials Group (ANZUP) to initiate and conduct high quality clinical trials research. This research aims to identify and promote better treatments to raise survival rates and enhance the quality of life of patients with urogenital and prostate cancer.

Click here for more information.

![](_page_16_Figure_5.jpeg)

### 2018 highlights

Xanthi Coskinas – **ANZUP** Project

Manager

ANZUP was awarded an NHMRC project grant to complete the BCG+MMC study in bladder cancer, and was also awarded a grant from Cancer Australia for the P3BEP study in germ cell cancer.

TheraP trial: exceeded recruitment expectations with over 50% completed by the end of 2018, ten months after the first patient's first visit (see trial in focus).

ENZARAD trial: reached its accrual target of 800 patients in June following three years of accrual in Australia, New Zealand, the USA, the UK, Ireland and Europe. This trial investigates the effectiveness of a hormone suppressing drug and radiotherapy treatment for prostate cancer.

Urogenital and prostate cancer in numbers

1.209 estimated number of deaths from bladder cancer in 2019 (852 men + 357 women)

2.4% estimated % of all deaths from cancer in 2019

![](_page_16_Picture_13.jpeg)

chance of surviving at least five years (2011-2015 data)

![](_page_16_Picture_16.jpeg)

### Trial in focus: TheraP

How does lutetium compare to cabazitaxel chemotherapy in men with progressive prostate cancer?

### Challenge

Prostate cancer is the most commonly diagnosed cancer in Australian men. Approximately 3,300 men will die from prostate cancer in Australia in 2019. Survival rates are high, with a 95% chance of surviving at least five years from the date of diagnosis.

### Trial

The TheraP trial compares the use of lutetium versus chemotherapy with cabazitaxel for patients with castration-resistant prostate cancer.

Lutetium is a novel treatment that has demonstrated promising activity and tolerability in men who have undergone multiple lines of chemotherapy and endocrine therapy.

TheraP will determine the activity and safety of lutetium compared to cabazitaxel chemotherapy. The trial is an open-label, randomised, stratified, two-arm, multicentre, Phase II trial.

Recruitment for this study has continued to exceed initial expectations, with over 50% of recruitment completed at the end of 2018, after only ten months of recruitment.

### Impact

TheraP has the potential to offer men with prostate cancer an alternative when chemotherapy, endocrine therapy and castration have failed as treatment options.

If the evidence suggests lutetium is successful and safe, this novel treatment could assist men with advanced prostate cancer to fight their cancer and improve their condition.

### TRIAL SNAPSHOT

![](_page_17_Figure_13.jpeg)

![](_page_17_Picture_14.jpeg)

Translational research studies involve examining patient samples from CTC trials for biological markers. These markers can help predict a patient's response to a particular treatment, or they can help better forecast survival. They can also be used as a tool to select the right treatment, delivered at the right time for the individual patient — the basis of precision medicine.

Patients may choose to donate tissue and blood samples for this research. Samples are studied collaboratively with partners around the world. Cutting-edge techniques known as 'omics' are used to study genes (genomics), proteins (proteomics) and mRNA (transcriptomics).

Click here for more information.

### **Translational Research Process**

![](_page_17_Figure_19.jpeg)

![](_page_17_Picture_23.jpeg)

![](_page_18_Picture_0.jpeg)

### 2018 highlights

EMBRACE trial: patients with breast or ovarian cancer selected based on their molecular profile, rather than their tumour type.

VERTU trial: screened patients for a specific biomarker to enter the trial. Only patients with an 'unmethylated' MGMT gene status are eligible for the trial.

Two translational research studies were awarded ANZGOG New Research Grants:

- molecular and genomic studies of the PHAEDRA trial (endometrial cancer)
- understanding resistance and sensitivity to PARP inhibitors studies of the EMBRACE trial (breast and ovarian cancers)

![](_page_18_Picture_7.jpeg)

### Trial in focus: AUTO-CHECK

What are the molecular determinants of autoimmunity and immune-related adverse events in advanced cancer patients treated with immune checkpoint inhibitors?

### Challenge

Immune checkpoint inhibitors are remarkably active in a variety of cancers. Are patients with a genetic susceptibility to autoimmunity more likely to develop an immune-related adverse event after treatment with immune checkpoint inhibitors?

### Study

AUTO-CHECK focusses on biomarkers of side-effects of immune checkpoint inhibitor drugs. This study aims to use the patient's biology; i.e., their genomic and cellular characteristics, to predict those likely to develop side-effects relating to the patient's immune system.

AUTO-CHECK is a first for the CTC Translational Research team. It uses data and biospecimens from six multi-site investigator-initiated trials across four cooperative trials groups (ALTG, ANZGOG, ANZUP and COGNO). These trials span five tumour types: mesothelioma (DREAM; NSCLC — NIVORAD and ILLUMINATE), endometrial (PHAEDRA), renal cell (KEYPAD) and GBM (NUTMEG). Each trial uses immune checkpoint inhibitors.

This study was developed through the Genomics Cancer Clinical Trials Initiative (GCCTI) funded by Cancer Australia.

### Impact

The ability to predict, be vigilant for, and treat such side-effects in at-risk individuals would be an important advance in the care of patients across these five different cancers and help us personalise their anti-cancer treatment.

### **TRIAL SNAPSHOT**

START DATE: 2017

PATIENTS RECRUITED 63 SITES

THROUGHOUT

REAL-TIME SHIPMENTS OF AUSTRALIA (50% ARE UNIQUE) SAMPLES

### The molecular screening and therapeutics framework

The Molecular Screening and Therapeutics (MoST) program brings new targeted (or personalised) treatment options for rare or advanced cancers according to genes and proteins of the patient, instead of the type of cancer they have.

Partnerships have grown the program from a NSW pilot into a leading source of treatments for rare cancer patients in Australia, attracting \$50m dollars in federal funding in 2018 to nationalise the program. Together with the Garvan Institute, we have founded a not-forprofit company called the Australian Genomic Cancer Medicine Centre (AGCMC), which MoST will continue to grow together with new national member centres.

![](_page_19_Figure_3.jpeg)

Drug and funding partnerships are established with a growing list of pharmaceutical companies (including Pfizer, Astra Zeneca, Roche, LOXO/Bayer, Eisai) and two biotechnology companies (Roche Foundation Medicine and Illumina), with a total funding amount of \$17.9 million.

<u>Click here</u> for more information.

### 2018 highlights

By November 2018, the molecular screening component of the MoST study had recruited 936 patients in total, exceeding the recruitment target by 171 patients. The target of 1,000 patients will be achieved by January 2019, 12 months ahead of schedule.

MoST team

Of the patients enrolled to date, 806 have had molecular profiling completed and results returned. A promising 33% of patients (270) have been identified as having strong characteristics to benefit from therapy based on their genes and protein profiles.

Medical oncology referrals continue to be robust as a result of the MoST program (they increased by 40% in 2017).

Additional NSW sites at St George Hospital and Chris O'Brien Lifehouse opened MoST in Q4 2018. In December 2018, two non-NSW sites (ACT and Western Australia) opened MoST and commenced enrolment.

NSW MoST program has generated 15 research publications (from 2015-2018) and 35 oral presentations at national and international meetings.

### \_\_\_\_\_

Rare cancer in numbers

52,000

number of people diagnosed with a form of rare or less common cancer in Australia annually

# 25,000

estimated number of deaths from rare or less common cancer annually 1 in 5 cancers diagnosed is a rare cancer

> Source: Australian Government, Cancer Australia

![](_page_19_Picture_20.jpeg)

Lucille Sebastian and Sarah Chinchen

### Cardiovascular trials and other research

Cardiovascular disease is the leading cause of early death in Australia, while in developing countries the prevalence of cardiovascular risk factors has increased greatly, led by demographic and economic changes. In Australia, and indeed elsewhere, better treatments mean that more people are living longer with heart disease. The burden of chronic heart disease is a national health priority here in Australia, and a target of CTC research into prevention and treatment.

The CTC's cardiovascular team (CVD) evaluate medicines for prevention of cardiovascular diseases. Our research has influenced health outcomes globally, particularly in the treatment of acute myocardial infarction and the prevention of chronic heart disease.

5**I** 

ACTIVE

TRIALS

Click here for more information.

### Cardiovascular disease in numbers

1.2m Australians had CVD in 2017-18 43,447 deaths in Australia from CVD in 2017

### \$5b spent providing healthcare to adr

healthcare to admitted patients with CVD in 2012-13 119

Australians die from CVD each day, or one every 12 minutes

\$3.2m

2018

IN NUMBERS

PUBLICATIONS

Source: heartfoundation.org

'Cardiovascular disease remains one of CTC's highest priorities, as the leading cause of death in Australians. Actively identifying and testing promising new treatments is essential to improve survival and health.'

![](_page_20_Picture_14.jpeg)

**Rebecca** Mister - CVD team lead

### 2018 highlights

Restore-MI trial: awarded an NHMRC project grant of \$3.2M over five years (see trial in focus).

FOURIER LEGACY study: start-up agreement signed with Amgen. This study aims to evaluate the potential long-term effects of evolocumab treatment in patients who completed the FOURIER OUTCOMES trials. The CTC is the global coordinating centre, and will be coordinating the study in the Asia-Pacific region.

Rebecca Mister received the Sydney Medical School Award for Exceptional Performance by Professional Staff, for her outstanding support of the activities in the Cardiovascular division of the CTC.

> Li Ping Li - CVD team

![](_page_21_Picture_6.jpeg)

### Trial in focus: Restore-MI

Can the thrombolytic drug tenecteplase restore blood flow and save heart tissue in patients who have undergone angioplasty urgently for a heart attack but who have developed blockages in microvessels of the heart?

### Challenge

In Australia, over 15,000 serious heart attacks occur annually. Despite angioplasty and stenting to widen arteries and veins, more than 50% of patients fail to regain complete blood flow due to blockages in micro circulation of the heart. These cases have a poor prognosis and account for over 70% of deaths and heart failure.

### Trial

The Restore-MI study aims to determine the efficacy of the drug tenecteplase (TNK) in reducing mortality and rehospitalisation for heart failure in patients with significant microvascular obstruction who have undergone angioplasty and stenting but have blockages in the microvessels of their heart.

### Impact

This study has the potential to significantly improve outcomes for a large proportion of patients who have experienced a serious heart attack. A key innovation is the use of an index measure, resistance to flow, to identify patients with microvascular obstruction after angioplasty and stenting, identifying the population most likely to benefit.

If low-dose TNK is effective at reducing mortality in high-risk patients, it could lead to a transformation in care of acute coronary syndrome patients worldwide. RESTORE-MI will cost a fraction of the annual cost of treating these patients, and would help to avoid their premature death.

### TRIAL SNAPSHOT

![](_page_21_Picture_17.jpeg)

800 PATIENTS

NHMRC PROJECT GRANT

\$3.2m

# LIPID study celebrates 20 years

![](_page_22_Picture_1.jpeg)

![](_page_22_Picture_2.jpeg)

On Friday 26 October 2018 the CTC hosted the LIPID 20th anniversary meeting. Over 50 guests attended to celebrate the global impact of the LIPID study and share many of the untold success stories of the study.

LIPID was the CTC's first large long-term multicentre trial. It was inspired by a study in Norway that showed that high cholesterol levels could be lowered with the drug statin, reducing the risk of a patient experiencing a cardiac event. The LIPID team wanted to see if this same approach could be used for people with normal cholesterol levels, as it is not unusual for those with normal levels to suffer a cardiac event. The statin-lowering approach vastly increased the chances of study participants having a longer and more fulfilling life, and changed clinical practice worldwide.

![](_page_22_Picture_5.jpeg)

![](_page_22_Picture_6.jpeg)

The results of the LIPID study have meant that statin treatment is now subsidised for Australian patients

Involved over 9,000 participants and 87 hospitals from across Australia and New Zealand

Long-term follow-up has shown that this improved survival rate continues for almost two decades, largely due to prevention of cardiovascular deaths

Long-term treatment with statins is not associated with an increase in the rates of new cancers or death

Blood samples collected over the initial phase of the trial are being used in new investigations to determine how various biological and genetic markers are related to the risk of cardiovascular disease and to the effects of pravastatin

![](_page_22_Picture_13.jpeg)

### Fast facts

Pravastatin treatment for six years was found to reduce death from cardiovascular disease by 24%, and overall mortality by 23%

### Diabetes trials and other research

Type 1 and Type 2 diabetes are major causes of morbidity and premature death globally. The Diabetes team takes a multi-faceted approach, studying both types of diabetes in cell and animal models and in human observational studies and clinical trials.

CTC's Diabetes team aims to improve the prediction of diabetes onset and its complications, to explore underlying mechanisms of disease and treatment benefit, and to test drugs, devices and models of care, including telehealth, that improve outcomes for people with diabetes.

Click here for more information.

![](_page_23_Figure_4.jpeg)

'The personal and socioeconomic costs of diabetes are enormous, but there are many advances in diabetes prevention and treatment, including drugs, devices, and models of care to improve outcomes. The CTC is active in all these areas.'

**Diabetes in numbers** 

### 280

Australians develop diabetes every day. That's one person every five minutes

100.000 1.7m Australians developed diabetes in 2018

estimated number of Australians with diabetes

\$14.6b estimated total annual cost impact of diabetes in Australia

![](_page_23_Picture_14.jpeg)

Biomarker team

### 2018 highlights

Major improvements were made in measuring telomere length (which controls how long cells can live for) in human blood samples. This information can be used in major international studies.

Dr Mugdha Joglekar was awarded an Australia-India Fellowship to progress collaborative diabetes research.

Dr Anand Hardikar continued his JDRF Australia Fellowship and Danish Diabetes Program Visiting Scholar program.

Professor Alicia Jenkins continued her NHMRC Practitioner Fellowship.

Dr Andrzej Januszewski completed biostatistics and big data courses (University of Washington) and retinal grading software training (Singapore).

Dr Emma Scott received several major grants for her PhD funding. Both Dr Scott and Mr Luke Carroll completed the last full year of their PhD studies.

The team mentored 13 University of Sydney Medical Student MD research projects.

### Trial in focus: The Adult Hybrid Closed-Loop Study What is the impact of six months of hybrid closed-loop insulin delivery in adults with Type 1 diabetes?

#### Challenge

People with Type 1 diabetes need insulin to survive, however consistently administering the correct amount of insulin is often challenging and long-term vascular complications and reduced life expectancy are a reality.

Closed-loop systems can help. They are designed to maintain glucose levels at a predetermined target by linking continuous glucose monitoring (CGM) information with an insulin dosing algorithm for automated subcutaneous insulin delivery via a pump.

### Trial

The Adult Hybrid Closed-Loop Study (HCL) aims to evaluate the efficacy and cost-effectiveness of long-term HCL insulin delivery versus standard therapy (MDI/CSII) to improve glycaemia, psychosocial wellbeing, sleep quality, cognition, and biochemical markers of vascular risk in people with Type 1 diabetes.

The trial is a collaborative study between the University of Melbourne, St Vincent's Hospital Melbourne, Deakin University and the University of Sydney. The CTC is responsible for data management and translational research.

### Impact

The trial could provide evidence that the closed-loop device maintains glucose levels, thus reducing the risk of damage to the body from levels outside of a healthy range. If the device proves effective, this will improve the quality of life for people with Type 1 diabetes.

#### **TRIAL SNAPSHOT**

PARTICIPATING HOSPITALS

120 participants

MONTH TREATMENT PERIOD

![](_page_25_Picture_0.jpeg)

### **Diabetes and** Islet Biology

The Diabetes and Islet Biology group focuses on three areas relevant to diabetes: discovering and validating molecular biomarkers predictive of future diabetes; addressing complications in diabetes; and identifying epigenetic regulators of insulin gene transcription.

Click here for more information.

![](_page_25_Figure_4.jpeg)

![](_page_25_Picture_5.jpeg)

Islet biology team

### 2018 highlights

With support from the Helmsley Trust and JDRF Australia, the group continued to develop a highly innovative, five-minute detection chip costing \$1, which can measure diabetes-associated microRNAs to riskstratify diabetes progression.

Drug interventions that retard the death of insulin-producing cells in newly diagnosed Type 1 diabetes individuals were evaluated. The team lodged patents identifying microRNAs that are potential regulators of insulin transcription and/or biomarkers of progression to Type 1 diabetes.

PREDICT Type1 diabetes study: assessed the majority of clinical samples planned for microRNA analysis in individuals with, without or at risk of Type 1 diabetes. The data was presented at the 78th Annual American Diabetes Association meeting in Orlando, USA.

DREAM-Nano study: presented at the 78th American Diabetes Association Scientific meeting in Orlando, USA.

A/Prof Anand Hardikar completed his two-year visiting professorship awarded by the DDA. The project led to the assessment of insulin cell-free DNA and microRNAs in obese teenage Caucasians and in adult women with polycystic ovarian syndrome, progressing to Type 2 diabetes.

### Neonatal and perinatal trials and other research

6 ACTIVE TRIALS 301 PATIENTS RECRUITED 2018 IN NUMBERS 16 \$1.6m S1.6m IN FUNDING

The CTC's neonatal and perinatal trials are at the forefront in addressing the causes of mortality and morbidity in high-risk pregnancies and babies, and in developing interventions to promote healthy survival.

The CTC's neonatal and perinatal research program focuses on areas such as neonatal infection, oxygen therapy, maternal anaemia and pre-eclampsia and simple cost effective measures to improve outcomes for these high risk women and babies. Through the ALPHA Collaboration for Advancing Large, collectively Prioritised trials of Health outcomes Assessment, we plan to prioritise core questions for a new generation of rapid and efficient large-scale international trials to improve disability-free survival, using digital technology to consult parents, patients, professionals, policymakers, funding agencies and the public.

Click here for more information.

Pre-term babies in numbers

1 in 10 babies are born prematurely 42,422 babies are admitted to special care nurseries or neonatal intensive care

units annually

### 1in5

babies require some form of resuscitation, receive suction or oxygen therapy

Source: Australian Institute of Health and Welfare 2016 'We plan to prioritise core questions for a new generation of rapid and efficient large-scale international trials to improve disability free survival.'

![](_page_26_Picture_14.jpeg)

Neonatal and Perinatal team

### 2018 highlights

ESPRESSO trial: commenced looking at the impact of esomeprazole in women at risk of pre-eclampsia. A total of \$1.6 million in funding was received from NHMRC.

TORPEDO 30/60 trial: waiver of initial parental consent approved and recruitment commenced.

APTS trial: awarded ACTA Trial of the Year. This is the largest ever randomised controlled trial of delayed placental cord clamping for premature infants, which has already lead to significant improvements in premature infant health simply by 'waiting a minute' during delivery.

![](_page_27_Picture_5.jpeg)

### Trial in focus: TORPEDO 30/60 How much oxygen is best for premature babies?

### Challenge

Oxygen is necessary for life, but too much or too little can damage the eyes, lungs and brain of very premature babies. These babies often need additional oxygen after birth as their lungs are not fully developed; however, their ability to cope with too much oxygen (oxidative stress) is limited.

### Trial

TOPRIDO 30/60 seeks to find out if an initial oxygen concentration of 30% or 60% given to pre-term babies when they are born helps to reduce avoidable deaths or long-term health problems.

The trial was abandoned in 2014 due to the challenges of gaining parents' permission before birth. In 2018, the TORPIDO team reached out to Miracle Babies Foundation co-founder Melinda Cruz to discuss ways to increase the number of babies benefiting from clinical trials in the delivery room.

This new researcher and consumer team worked with the Hunter New England Research Ethics Committee to allow waiver of initial consent for the TORPEDO 30/60 trial. Waiver of consent means that all babies can benefit by entering the study, including those born at night, on weekends, or in emergencies — a group that was often missing from previous trials.

### Impact

The collaborative partnership between CTC and Miracle Babies Foundation received the inaugural consumer involvement award from the Australian Clinical Trials Alliance in May 2019 (see the CTC website for more details).

TORPIDO 30/60 could help resolve the long-running research debate around which level of oxygen is best for the survival and health of pre-term babies. This could ensure more pre-term babies survive and experience fewer health problems in the long term.

#### TRIAL SNAPSHOT

PARTICIPATING HOSPITALS

ING PATIENTS S RECRUITED

## Health economics

The Health Economics team contributes to the development of healthcare programs in Australia and internationally by incorporating patient-centred, economic outcomes into clinical trials.

The team provides analysis on the efficiency, effectiveness and value of a healthcare program to facilitate policy decision-making across oncology, cardiometabolic disease and perinatal medicine. They also develop new methods of outcome assessment and resource measurement.

Click here for more information.

### 215 PATIENTS RECRUITED (WHOLE BRAIN RADIOTHERAPY TRIAL IN MELANOMA) 2018 IN NUMBERS

PUBLICATIONS

'Research commissioned by the Australian Commission for Quality and Safety found clinical trials return on average, \$5.80 for every \$1 spent. The benefits from clinical trials knowledge represent excellent value for money'

### Health economics in numbers

### 1360

new clinical trials were started in 2015, contributing \$1.1 billion to the Australian economy and supporting more than 6900 jobs (MTP Connect, 2017).

### \$5.80

The benefit-to-cost ratio for clinical trial networks is 5.8:1, or a return of \$5.80 for every \$1 invested (Clinical trials alliance, 2017)

![](_page_28_Picture_12.jpeg)

Health **Economics** team

### 2018 highlights

Seven guidelines were published for the European Centre for Disease Control on the effectiveness and cost-effectiveness of screening migrants to the EU for infectious diseases.

CARSK trial: awarded Young Investigator at the ANZ Society of Nephrology. This is a modelled economic evaluation of the Canadian-Australian screening transplant recipients for coronary artery disease.

Awarded Australian Cancer Research Foundation Centre of Research Excellence in Melanoma Imaging and Diagnosis (ACEMID) in collaboration with the University of Queensland and Monash University.

SWIFT study: pilot funding awarded from Kidney Health Australia and main trial funding from the NHMRC (see study in focus).

![](_page_29_Picture_6.jpeg)

### Study in focus: SWIFT Is quality of life improved by three-monthly measurements of patient-reported symptoms, and is it cost-effective?

### Challenge

PROMs and patient-reported experience measures (PREMs) are increasingly used in research to quantify how patients feel and function, and their experiences of care. However, knowledge of their use for patients with kidney disease is limited.

### Trial

SWIFT is a novel registry-based cluster-randomised controlled trial being undertaken in kidney dialysis units in Australia and New Zealand. It aims to determine whether PROMs collected at regular intervals through the ANZDATA clinical quality registry can improve quality of life.

SWIFT is led by health economist Rachael Morton, and engages a truly multidisciplinary team of investigators including national and international nephrologists, nurses, consumers, a biostatistician, a health informatician, qualitative researchers, registry experts, and trialists. Ethics approval has been granted for the pilot study to be undertaken in four sites in South Australia and two sites in Queensland.

### Impact

SWIFT is the first trial in kidney disease to assess the value of PROMS. If shown to be effective, SWIFT will facilitate the consideration of PROMS alongside traditional clinical and biochemical indicators (e.g. blood results) in doctors' and nurses' clinical consultations. This will ultimately reduce the burden of symptoms for adults on dialysis, and improve health-related quality of life. SWIFT also provides a framework for embedding PROMs into clinical quality registries.

### **TRIAL SNAPSHOT**

![](_page_29_Picture_17.jpeg)

![](_page_29_Picture_18.jpeg)

![](_page_29_Picture_21.jpeg)

COLLABORATORS: KIDNEY HEALTH AUSTRALIA, UK RENAL REGISTRY, FRENCH RENAL REGISTRY, BEAT-CKD, ANZDATA

# Integrating evidence

'We pushed new boundaries in 2018 using 'next gen' systematic review methods. This included the first ever neonatal prospective metaanalysis and other projects using network meta-analysis, individual participant data, and prediction modelling.'

**PROFESSOR LISA** 

ASKIE, PRINCIPAL RESEARCH FELLOW HEALTH ECONOMICS

### Cochrane Breast Cancer Group

For trusted and reliable evidence on questions of healthcare, the leading information source is the international Cochrane Library. The CTC hosts the Cochrane Breast Cancer Group, which tackles a broad array of topics in breast cancer including prevention, treatment and survivorship care.

The group coordinates and leads the review and publication of evidence from breast cancer research undertaken around the world.

![](_page_30_Picture_5.jpeg)

![](_page_30_Picture_7.jpeg)

### 2018 highlights

Two new protocols of reviews were published: - mammographic density, endocrine therapy and breast cancer risk: a prognostic and predictive biomarker review; risk prediction models for familial breast cancer.

250 Cochrane reviews were audited to assess current practice in identifying and incorporating information from clinical trial registers.

The group contributed to the development of two key projects for Cancer Australia. One of these projects involved reviewing the evidence on risk factors for breast cancer with the findings published on Cancer Australia's website: canceraustralia.gov.au

Cochrane Breast Cancer team

### Australian New Zealand Clinical Trials Registry

The Australian and New Zealand Clinical Trials Registry (ANZCTR) allows clinical trial researchers to register their studies and comply with ethical obligations. The registry serves as a national and international resource for clinical trials.

![](_page_31_Picture_2.jpeg)

![](_page_31_Figure_3.jpeg)

### 2018 highlights

Intention to share data and results summary options were added to ANZCTR forms, providing researchers and clinicians with information about the results from completed trials, even if they are not published. This is a major step forward in improving research quality, transparency and achieving better patient outcomes.

ANZCTR published 'The clinical trials landscape in New Zealand 2006-2015', a landmark report providing the most complete overview of clinical trial activity in New Zealand ever published.

The publication 'Prospective registration trends' was published. The first of its kind, the study showed a lack of awareness is the most common cause for failing to prospectively register a trial, indicating the need to continue to promote trial registration among researchers.

ANZCTR team

Evidence Evaluation team

### Evidence evaluation

The Evidence Evaluation team undertakes systematic reviews, health technology assessments and economic evaluations under contracts with the Commonwealth Department of Health and the NHMRC. This work assists the Medical Services Advisory Committee to make decisions on new listings for the Medical Benefits Schedule.

The group also reviews evidence and provides methodological expertise to the NHMRC, which develops health guidelines for Australia.

![](_page_31_Picture_13.jpeg)

![](_page_31_Picture_14.jpeg)

### 2018 highlights

Reviews in cardiology, haematology, oncology, gastroenterology, and dermatology.

Methodological review of a clinical practice guideline for NHMRC on the health effects of alcohol consumption, and a review of the association between alcohol and certain health conditions.

![](_page_31_Picture_18.jpeg)

# Medical test research

The Medical Test Research

(METRE) team is a group of clinical epidemiologists specialising in medical test research. They work closely with clinicians to design studies that identify tests and test strategies to improve clinical practice and patient outcomes.

The team works closely with international colleagues, such as the University of Bern, Switzerland, and the European Federation of Clinical Chemistry and Laboratory Medicine Test Evaluation Working Group (EFLM).

### 2018 highlights

Launched new website: www.medicaltestresearch.org to present an evaluation framework and examples of applied methods projects of the METRE team.

Received funding from Abbott Diagnostics for a research project on troponin testing for cardiovascular disease risk assessment in the general population.

Published seven papers in medical test and biomarker research, made three poster presentations at the Dutch MEMTAB conference, and co-supervised four PhD students.

### Individual participant data and prospective meta-analysis

The Individual Participant Data and Prospective Meta-Analysis (IPD/PMA) team conduct systematic reviews using a wide range of innovative methods, such as prospective meta-analysis, network meta-analysis, individual participant data analysis, and rapid reviews.

They also provide methods support and advice to national and international external research teams and co-convene the Cochrane Prospective Meta-Analysis Methods Group.

![](_page_32_Picture_11.jpeg)

METRE team

![](_page_32_Picture_13.jpeg)

IPD/PMA team

![](_page_32_Picture_15.jpeg)

### 2018 highlights

Neonatal Oxygenation Prospective Meta-Analysis (NeOProM), examining the association between oxygen saturation targeting and death or disability in extremely pre-term infants, was published in the Journal of the American Medical Association.

An NHMRC Project Grant was awarded for a project which will synthesise data from more than 100 trials in order to determine the best time to clamp the umbilical cord in pre-term births and the comparative effects of alternative policies for cord clamping, such as milking.

An NHMRC Project Grant commenced for a study aiming to develop accurate methods to predict pregnancies at risk of foetal growth restriction using individual participant data from a large collaboration of international researchers.

## Biostatistics

Biostatisticians at the CTC work closely alongside investigators to evaluate and test new therapies in a number of important disease areas. They help design trials that are efficient and methodologically rigorous and they play a pivotal role in analysing and reporting on trials.

### Outreach

CTC biostatisticians service a number of institutions and hospitals, advising on study designs and analyses in the areas of radiation and medical oncology, rheumatology, molecular studies, women's health and paediatric diseases.

Outreach services are provided to:

- Nepean Hospital
- Crown Princess Mary Cancer Care Centre (Radiation Oncology) and Women's Health, Westmead Hospital
- The Children's Hospital at Westmead
- Kolling Institute, Royal North Shore Hospital
- Departments of Radiation Oncology and Rheumatology Royal North Shore Hospital
- Department of Cancer Services
- Chris O'Brien LifeHouse

![](_page_33_Figure_12.jpeg)

### Teaching

CTC biostatisticians also play a key role in delivering:

- The postgraduate courses of Masters of Clinical Trials (Research) and the Controlled Trials Unit of the Master of Public Health and Masters of Clinical Epidemiology at the University of Sydney.
- The Principles of Statistical Inference unit through the Biostatistics Collaboration of Australia.
- Short courses in critical appraisal/ study design methods in the Basic Sciences in Oncology and the Statistical Methods, Evidence Appraisal and Research for Trainees (SMART) workshop, through the Royal Australian and New Zealand College of Radiologists.
- Supervision to postgraduate studies (PhD) and summer research students.

'Statistical involvement in studies is interesting; involvement in global studies is exciting; methodologically teaching studies which change clinical practice an endorphin rush!'

![](_page_33_Picture_20.jpeg)

![](_page_33_Picture_21.jpeg)

![](_page_34_Picture_0.jpeg)

### 2018 highlights

SOLO2 study: engagement of CTC statistical group for analysis of sub-studies from the international SOLO2 study (olaparib maintenance therapy for patients with relapsed ovarian cancer) by the European Network for Gynaecological Oncology (ENGOT).

Statistical analysis of the study evaluating disease-free survival in patients treated with laparoscopic surgery for operable cervical cancer (MD Anderson Cancer Care Centre Texas and the Royal Hospital for Women, Brisbane). The results were published in the New England Journal of Medicine and were practice-changing.

Manuscript on data maturity and time-to-event outcomes published in the International Journal of Epidemiology.

Andrew Martin promoted to Associate Professor; PhD awarded to Kristy Robledo by Macquarie University.

![](_page_34_Picture_6.jpeg)

![](_page_34_Picture_7.jpeg)

Susan Lohan

The Business Group provides local services and resources to CTC's trial and research teams. Working together with internal and external stakeholders, including the University of Sydney, the Business Group tailors services and resources for individual teams, underpinning the CTC's achievements and status as a leading clinical trials centre in Australia.

and Susan Lohan).

![](_page_34_Picture_10.jpeg)

Finance team

Approximately 30 staff in the Business Group provide expertise in a range of support areas, including human resources, workforce planning and management (HR, led by Cynthia Carr); financial planning and management (Finance, led by Paul Smyth); clinical data systems (DSD led by Mark Maclean, working in close collaboration with clinical data management led by Salma Fahridin); pre and post award grant coordination and contract management (Grants and Contracts, led by Nicole Wong); IS infrastructure and internal helpdesk support (IS, led by Dinh Tran); internal and external communications (Communications, including Ben Falkenmire and Sarah Munro); and executive and administration support (Administration, led by Suzanne Everett

![](_page_34_Picture_14.jpeg)

### CTC Community

We are privileged to work closely with a number of specialist organisations, some of which began life at the CTC or are currently co-located at the CTC.

# Sydney Catalyst

Sydney Catalyst is the Translational Cancer Research Centre of central Sydney and regional NSW, and aims to improve outcomes for people affected by cancer.

Sydney Catalyst brings together over 700 outstanding researchers and clinicians from leading NSW institutions working across the full translational research continuum and opportunity to experience the inner provides a rich forum for members to connect and collaborate.

The Sydney Catalyst central office is housed within the CTC. This has provided an important opportunity for the groups to work closely together across a range of translational research projects and activities, challenging institutional and work culture boundaries. Co-location also provides Sydney Catalyst staff with a unique workings of the CTC, enriching their understanding of clinical research.

![](_page_35_Picture_6.jpeg)

### Cancer work

The Embedding Research (and Evidence) in Cancer Healthcare (EnRICH) Study is Sydney Catalyst's major flagship research program and is an important example of translational research collaboration between the CTC and Sydney Catalyst. The program is led by CTC Director, Professor John Simes.

EnRICH is assembling a clinical cohort of 1,000 patients with lung cancer to:

- Describe the natural history of and patterns of care for lung cancer
- Better define, treat and care for patients across Sydney Catalyst member hospitals, including the Lifehouse
- Create a platform for researchers across the T1–T3 translational research spectrum to develop and initiate clinical research and intervention studies to address gaps

Significant new research opportunities have been made possible by EnRICH, enabling Sydney Catalyst members to use the resource to improve outcomes for people affected by cancer. A number of sub-studies using biospecimens and data from the EnRICH cohort are currently being undertaken. www.sydneycatalyst.org.au

### centenary cancer research centre

Centenary Institute.

In partnership with the ACRF and Sydney Catalyst, the new ACRF Centenary Cancer Research Centre expands the capabilities of the Centenary's cancer research stream. The Centre has four core strategic aims: i) making key discoveries about disease mechanisms; ii) their effective translation into the clinic; iii) catalysing medical research by collaborations and iv) local and international recognition.

The Centre is located within the University of Sydney's Charles Perkins Centre and will be the first dedicated cancer biology research centre in the Royal Prince Alfred Hospital and the University of Sydney Precinct — a health precinct that is technically excellent, clinically innovative and directly connected to patients.

Professor Philip Hogg

# Professor Philip Hogg,

Professor Philip Hogg is an NHMRC Senior Principal Research Fellow. He currently holds the Sydney Catalyst Chair in Translational Cancer Research and is Director of the Australian Cancer Research Foundation (ACRF) Centenary Cancer Research Centre at the

![](_page_35_Picture_22.jpeg)

![](_page_36_Picture_0.jpeg)

#### BCA team

### Biostatistics Collaboration of Australia

The Biostatistics Collaboration of Australia (BCA) is a consortium of biostatistical experts from around Australia, with representatives from universities, government and the pharmaceutical industry, who have combined to offer a program of postgraduate courses via an alliance of six universities. The BCA Coordinating Office is hosted by the CTC. The BCA program is delivered entirely by distance. At the end of Semester 2 2018, around 300 students were enrolled, 141 new in 2018 (of which 73 were enrolled in award courses and 68 in single units of study). Since 2003, 568 students have graduated from BCA courses (130 Graduate Certificates, 85 Graduate Diplomas, 344 Masters). These graduates will contribute to solving the shortage of well qualified biostatisticians in Australia and internationally. www.bca.edu.au

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![](_page_36_Picture_6.jpeg)

## Current CTC trials

As at December 2018

Group	Participant	Target	Accrual
ONCOLOGY			
CURRENT TRIALS			
Cannabis CINV: Pilot and definitive trials of cannabis extract for prevention of secondary nausea and vomiting (CTC, Lambert, NSW Health, Tilray)	Adults with cancer with significant nausea or vomiting during Cycle 1 of intravenous chemotherapy	330	66
EMBRACE: Phase II clinical trial of the PARP inhibitor, olaparib, in HR-deficient advanced breast and ovarian cancer (GCCTI, including ANZGOG and CCT)	Patients with either: a) metastatic TNBC; or b) relapsed platinum-sensitive HGSOC; who have an eligible tumour molecular analysis result and have not received prior treatment for metastatic/ relapsed disease	60	2
Breast cancer (collaborating with the R	oyal Australasian College of Surgeons)		
TRIALS IN FOLLOW-UP			
SNAC 1: Sentinel node biopsy versus axillary clearance (RACS and CTC study)	Women with a single operable breast tumour <3 cm, stratified by factors including age and tumour size	1,000	1,088
SNAC 2: Sentinel node biopsy versus axillary clearance (RACS and CTC study)	Women with operable breast cancer, stratified by factors including age and tumour size	1,012	326
Gastro-intestinal cancer (collaborating	with AGITG)		
TRIALS IN START-UP			
MASTERPLAN: A randomised Phase II study of MFOLFIRINOX And Stereotactic Radiotherapy (SBRT) for Pancreatic Cancer With High-Risk and Locally Advanced Disease (AGITG and CTC study)	Adults aged 18–75 years with histologically proven high-risk, borderline resectable pancreatic cancer or locally advanced pancreatic cancer suitable for neoadjuvant or definitive chemotherapy and SBRT. High risk is defined as any patient with tumour >4cm, extrapancreatic extension or node positive disease	120	N/A
CURRENT TRIALS			
ACTICCA-1: Phase III trial of adjuvant gemcitabine and cisplatin chemotherapy compared with standard treatment (AIO-led (Germany), AGITG and CTC study)	Patients with biliary tract cancer after resection	781 (Int'l) 50 (ANZ)	331 (Int'I) 5 (ANZ)
ASCOLT: Aspirin for Dukes C and high-risk Dukes B CRCs (National Cancer Institute (Singapore)- led, AGITG and CTC study)	Patients with CRC who have completed surgery and other treatment	1,500 (Int'l) 460(ANZ)	1,334 (Int'l) 326 (ANZ)
INTEGRATE II: Phase III trial comparing regorafenib and placebo for oesophagogastric cancer (AGITG and CTC-led international study)	Patients with refractory advanced oesophageal or gastric cancer	350 (Int'l) 90 (ANZ)	98 (Int'I) 40 (ANZ)
LIBERATE: A phase II study evaluating liquid biopsies to profile metastatic CRC (AGITG and CTC study)	Male and female patients aged ≥18 years with chemotherapy naïve metastatic CRC	100	36

Group	Participant	Target	Accrual	
ONCOLOGY continued				
MONARCC: A randomised Phase II study of panitumumab monotherapy and panitumumab plus 5-fluorouracil as first-line therapy for RAS and BRAF wild-type metastatic CRC (AGITG and CTC study)	Elderly patients, >70 years, with histologically confirmed RAS and BRAF wild-type metastatic CRC who have not have previously received chemotherapy and/or targeted therapy for their metastatic disease who are suitable for panitumumab alone or panitumumab plus 5-FU	80	4	
NABNEC: Phase II study of nab-paclitaxel and carboplatin as first-line treatment (AGITG and CTC study)	Patients with advanced gastro-intestinal neuroendocrine carcinoma	70	27	
SPAR: A randomised, placebo-controlled Phase II trial of simvastatin in addition to standard chemotherapy and radiation in preoperative treatment for rectal cancer (AGITG and CTC study)	Patients aged >18 years with biopsy-proven rectal adenocarcinoma (or high-grade dysplasia on biopsy with radiological evidence of invasive tumour) planned for concurrent long-course pCRT using fluoropyrimidine-based chemotherapy	222	6	
TOPGEAR: Randomised Phase II–III trial of preoperative chemoradiotherapy versus preoperative chemotherapy for gastric cancer (AGITG and CTC-led international study)	Patients with resectable gastric cancer suitable for these treatments	620 (Int'l) 280 (ANZ)	458 (Int'l) 206 (ANZ)	
TRIALS IN FOLLOW-UP				
A La CART: Australian Phase III randomised trial of laparoscopy-assisted resection compared with open resection (AGITG and CTC study)	Patients with primary rectal cancer	470	475	
ALT-GIST: Imatinib alternating with regorafenib compared to imatinib alone for GIST (AGITG, SSG, EORTC and CTC study)	Adults with previously untreated metastatic gastro-intestinal stromal tumours	76 (Int'l) 30 (ANZ)	78 (Int'I) 21 (ANZ)	
CONTROL NETS: Phase II open-label trial of lutetium-177 octreotate added to capecitabine and temozolomide for neuroendocrine tumours (AGITG and CTC study)	Patients with pancreatic or midgut neuroendocine tumours	72	75	
DOCTOR: Phase II trial of preoperative cisplatin, 5-fluorouracil and docetaxel with or without radiotherapy for oesophageal cancer (AGITG and CTC study)	Patients with resectable adenocarcinoma of the oesophagus not responsive to chemotherapy	120	124	
ICECREAM: Irinotecan-cetuximab evaluation and cetuximab response evaluation among mutants (AGITG- and CTC-led international study)	Patients with KRAS wild-type metastatic colorectal carcinoma	100	101	
InterAACT: Phase II open-label trial comparing cisplatin plus 5-fluorouracil versus carboplatin plus paclitaxel for anal cancer (Cancer Research UK, AGITG and CTC study)	Patients with locally recurrent or metastatic anal cancer	90 (Int'l) 20 (ANZ)	91 (Int'l) 3 (ANZ)	
Gynaecological cancer (collaborating v	vith ANZGOG)			
TRIALS IN START-UP				
AtTEND: Phase III double-blind randomised placebo-controlled trial of atezolizumab in combination with paclitaxel and carboplatin in women with advanced/recurrent endometrial cancer (MaNGO-led, ANZGOG and CTC study)	Newly diagnosed advanced stage (III/IV) endometrial cancer patients with residual disease after surgery, or recurrent endometrial cancer patients who have not been treated with systemic therapy in the advanced/recurrent setting	80 (ANZ) 550 (Int'l)	N/A	
SOLACE2: A Phase II randomised trial comparing immune priming by low-dose oral cyclophosphamide plus planarib versus	Women with platinum-sensitive high-grade serous carcinoma of the ovary, fallopian tube or primary peritopeum, at first asymptomatic	114	N/A	

oral cyclophosphamide plus olaparib versus or primary peritoneum, at first asymptomatic priming by olaparib alone, prior to combination CA125 progression therapy with olaparib plus durvalumab, versus single agent olaparib alone, in asymptomatic platinum-sensitive recurrent ovarian, fallopian tube or primary peritoneal cancers with homologous recombination repair defects (ANZGOG and CTC study)

Group	Participant	Target	Accrual
ONCOLOGY continued			
STICs and STONEs: A randomised Phase II double-blind placebo-controlled trial of acetylsalicylic acid in prevention of ovarian cancer in women with BRCA 1/2 mutations (CCTG-led, ANZGOG and CTC study)	Women with documented germline BRCA 1/2 mutations, scheduled to undergo risk-reducing surgery within six months to two years after the date of randomisation	70 (ANZ) 414 (Int'l)	N/A
TIPS: Testing individual interventions to optimise perioperative care in ovarian cancer surgery (ANZGOG and CTC study)	Women undergoing surgery for advanced or, suspected advanced malignancy of the ovary, fallopian tubes or primary peritoneum. Neoadjuvant chemotherapy is allowed	60	N/A
CURRENT TRIALS			
ECHO: Exercise during chemotherapy for ovarian cancer (ANZGOG and CTC study)	Women with newly diagnosed ovarian cancer starting treatment	304	185
ICON9: An international Phase III randomised study to evaluate the efficacy of maintenance therapy with olaparib and cediranib or olaparib alone in patients with relapsed platinum- sensitive ovarian cancer following a response to platinum-based chemotherapy (UCL-led, ANZGOG and CTC study)	Women with high-grade serous or endometrioid carcinoma of the ovary, fallopian tube or peritoneum, progressing ≥6 months after Day 1 of the last cycle of first-line chemotherapy and requiring platinum-based chemotherapy for first relapse	110 (ANZ) 618 (Int'l)	1 (ANZ) 8 (Int'l)
STATEC: A randomised trial of non-selective versus selective adjuvant therapy in high-risk apparent Stage 1 endometrial cancer (UCL-led, ANZGOG and CTC study)	Women aged 16 years or above, that have histologically confirmed high-risk apparent International Federation of Gynecology and Obstetrics Stage I endometrial cancer	240 (ANZ) 2,000 (Int'l)	6 (ANZ) 29 (Int'l)
TRIALS IN FOLLOW-UP			
ICON 6: Safety and efficacy of cediranib in combination with standard chemotherapy (MRC-led, ANZGOG and CTC study)	Women with platinum-sensitive relapsed ovarian cancer	400 (Int'l)	17 (ANZ) 486 (Int'l)
ICON 8: Dose-fractionated chemotherapy compared with three-weekly chemotherapy for ovarian cancer (MRC-led, ANZGOG and CTC study)	Women with ovarian, fallopian tube or primary peritoneal cancer	145 (ANZ) 1,485 (Int'l)	70 (ANZ) 1,566 (Int'l)
OUTBACK: Phase III trial of addition of adjuvant chemotherapy to standard chemoradiation as primary treatment for cervical cancer (ANZGOG- and CTC-led international study)	Women with locally advanced cervical cancer	150 (ANZ) 900 (Int'l)	168 (ANZ) 926 (Int'l)
OVAR2.21: Non-inferiority Phase III trial of bevacizumab + gemcitabine and carboplatin compared with bevacizumab + doxorubicin and carboplatin (GCIG-led, ANZGIG and CTC study)	Women with recurrent cancer sensitive to platinum-based treatment	120 (ANZ) 654 (Int'l)	76 (ANZ) 680 (Int'l)
OVAR 16: Pazopanib versus placebo for ovarian cancer (AGO-led, ANZGOG and CTC study)	Women without disease progression after chemotherapy for epithelial ovarian, fallopian tube, or primary peritoneal cancer	50 (ANZ) 900 (Int'l)	65 (ANZ) 940 (Int'l)
PARAGON: Phase II study of anastrozole in gynaecological cancers (ANZGOG- and CTC-led international study)	Women with potentially hormone-responsive gynaecological cancers	350 (Int'l)	226 (ANZ) 333 (Int'l)
PHAEDRA: Durvalumab (MEDI-4736) in endometrial cancer progressing after one or more lines of chemotherapy: a Phase II trial in mismatch repair deficient (MMR-d) and mismatch repair competent (MMR-c) cohorts (ANZGOG and CTC study)	Adult women with advanced, unresectable endometrial cancer that is either MMR-proficient and progressing after 1–3 lines of chemotherapy, or MMR-deficient and progressing after 0–3 lines of chemotherapy. Key eligibility criteria include known MMR status, one or more target lesions according to RECIST 1.1, ECOG performance status 0–2, adequate organ function, and no contraindication to treatment with durvalumab	70	71
PORTEC 3: Chemoradiation and adjuvant chemotherapy compared with pelvic radiation alone in high-risk endometrial carcinoma (ANZCOG, and CTC-led international study)	Women with advanced endometrial carcinoma	120 (ANZ) 670 (Int'l)	122 (ANZ) 688 (Int'l)

Group	Participant	Target	Accrual
ONCOLOGY continued			
REZOLVE: Phase II study to evaluate the safety and potential palliative benefit of intraperitoneal bevacizumab (DGOG-led, ANZGOG and CTC study)	Women with symptomatic ascites due to advanced chemotherapy-resistant ovarian cancer	24	24
Genitourinary cancer (collaborating w	ith ANZUP)		
CURRENT TRIALS			
BCG+MMC: Phase III trial of adding mitomycin C to BCG as adjuvant intravesical therapy for bladder cancer (ANZUP and CTC study)	Patients with high-risk, non-muscle-invasive bladder cancer	500	188
P3BEP: Phase III trial of accelerated versus standard BEP (ANZUP, CUH (UK), CTI (IRL), COG/CHOP/NIH (USA) and CTC study)	Patients with intermediate and poor-risk metastatic germ cell tumours	150	72 (Int'l) 47 (ANZ)
Pain Free TRUS B: Phase III trial of methoxyflurane with periprostatic local anaesthesia to reduce discomfort of transrectal ultrasound-guided prostate biopsy (ANZUP and CTC study)	Men scheduled to undergo first TRUS biopsy of the prostate	420	330
KEYPAD: Denosumab and pembrolizumab in clear cell renal carcinoma: a Phase II trial (ANZUP and CTC study)	Adults with unresectable or metastatic ccRCC progressing after treatment with a VEGFR TKI. Key eligibility criteria include target lesion(s) according to RECIST 1.1, good performance status (ECOG PS 0–2), no history of significant autoimmune disease, tumour sample available (archival or recent biopsy), and no previous treatment with immunotherapy	70	16
TheraP: Randomised Phase II trial of 177Lu labelled PSMA-DKFZ-617 versus cabazitaxel in men with progressive metastatic castration- resistant prostate cancer (ANZUP and CTC study)	Men with castration-resistant prostate cancer suitable for chemotherapy with cabazitaxel (surgical or medical castration, and previous chemotherapy with docetaxel. Previous enzalutamide and/or abiraterone is permitted), ECOG performance status 0–2. <sup>68</sup> Ga-PSMA PET/CT must show high PSMA avidity without discordant disease on FDG PET/CT	200	103
Tiger: A randomised Phase III trial comparing conventional-dose chemotherapy using paclitaxel, ifosfamide, and cisplatin (TIP) with high-dose chemotherapy using mobilising paclitaxel plus ifosfamide followed by high- dose carboplatin and etoposide (TI-CE) as first salvage treatment in relapsed or refractory germ cell tumours	Men, aged ≥14 years on the date of randomisation with histologically or cytologically confirmed germ cell tumour and who relapsed or were refractory to one prior line of cisplatin based chemotherapy for GCT	420 (Int'I) 60 (ANZ)	2 (Int'I) 2 (ANZ)
TRIALS IN FOLLOW-UP			
ENZAMET: Phase III trial of enzalutamide in androgen-deprivation therapy for metastatic prostate cancer (ANZUP and CTC international study)	Men with metastatic prostate cancer	1,100 (Int'l)	684 (ANZ) 1,125 (Int'l)
ENZARAD: Phase III trial of enzalutamide in androgen-deprivation therapy with radiation therapy for high-risk, clinically localised prostate cancer (ANZUP and CTC study)	Men with high-risk localised prostate cancer	800 (Int'l)	802 (Int'l); 503 (ANZ)
SORCE: Adjuvant sorafenib for renal cell carcinoma (MRC-led, ANZUP and CTC trial)	Patients with resected renal cell carcinoma at intermediate or high risk of relapse	250 (ANZ) 1,656 (Int'l)	168 (ANZ) 1,711 (Int'l)

Group	Participant	Target	Accrual
ONCOLOGY continued			
Lung cancer (collaborating with ALTG)			
TRIALS IN START-UP			
ILLUMINATE: A Phase II trial of durvalumab (MEDI4736) and tremelimumab with chemotherapy in metastatic EGFR mutant NSCLC following progression on EGFR tyrosine kinase inhibitors (ALTG, CTC and National Taiwan University Hospital study)	Adults with relapsed EGFR-mutated non-squamous NSCLC	50 (ANZ) 100 (Int'I)	0
CURRENT TRIALS			
BR.31: Phase III study of adjuvant MEDI4736 (CCTG-led, ALTG and CTC study)	Patients with resected primary Stage IB (>4 cm), II or IIIA NSCLC	100 (ANZ) 1,360 (Int'l)	88 (ANZ) 982 (Int'l)
BR34: A randomised trial of durvalumab and tremelimumab +/- platinum-based chemotherapy in patients with high-risk metastatic (Stage IV) squamous or non- squamous NSCLC (CCTG-led, ALTG and CTC study)	Patients with documented evidence of metastatic (Stage IV per 4.1.2) squamous or non-squamous NSCLC and be planned for standard first-line therapy	80 (ANZ) 300 (Int'l)	53 (ANZ) 300 (Int'l)
NIVORAD: Nivolumab and stereotactic ablative body radiotherapy (SABR) versus nivolumab alone (ALTG and CTC study)	Patients with advanced NSLC progressing after chemotherapy	120	38
OSCILLATE: Alternating osimertinib and gefitinib in patients with EGFR T790M positive NSCLC (ALTG and CTC study)	Adults with advanced, EGFR-mutated NSCLC that have acquired resistance to first or second generation EGFR-TKIs and are EGFR-T790M mutation positive	45	36
PEARL: Palliative care Early in Advanced Lung cancers (ALTG and CTC study)	The target population is adults with advanced NSCLC, SCLC or MPM that has been newly diagnosed within the last 60 days	200	58
STIMULI: A randomised open-label Phase II trial of consolidation with nivolumab and ipilimumab in limited-stage SCLC after chemoradiotherapy (ETOP-led, ALTG and CTC study)	Radically treated limited-stage SCLC following completion of thoracic radiotherapy concomitant to chemotherapy and PCI	50 (ANZ) 260 (Int'l)	0
TRIALS IN FOLLOW-UP			
DREAM: A Phase II trial of durvalumab with first-line chemotherapy in mesothelioma with a safety run-in (ALTG and CTC study)	Adults commencing first-line doublet chemotherapy with cisplatin and pemetrexed for MPM	54	55
Brain cancer (collaborating with COGN	O)		
TRIALS IN START-UP			
CODEL: Phase III Intergroup study of radiotherapy with concomitant and adjuvant temozolomide versus radiotherapy with adjuvant PCV chemotherapy in patients with 1p/19q co-deleted anaplastic glioma or low- grade glioma (ALLIANCE-led, EORTC, COGNO and CTC study)	Patients with newly diagnosed co-deleted 1p/19q anaplastic glioma or high-risk low-grade glioma	360	N/A
PersoMed-1: Personalised targeted therapy for adolescent and young adult medulloblastoma patients (EORTC, COGNO and CTC study)	Post-pubertal patients with newly diagnosed medulloblastoma	180 (Int'l) 33 (ANZ)	N/A
SEQUITUR – BRAIN: SEQUential ImmunoTherapy in patients with Underserved Rare cancers (COGNO and CTC study)	Adults with advanced cancers who have received standard of care treatments and progressed, or where there is no evidence-based effective treatment option	60	N/A
CURRENT TRIALS			
ACED: Phase II study of acetazolamide + dexamethasone v dexamethasone alone for cerebral oedema (COGNO and CTC studv)	Adults with recurrent or progressive high-grade glioma, who require dexamethasone or dose increase for cerebral oedema	84	23

Group	Participant	Target	Accrual
ONCOLOGY continued			
NUTMEG: A randomised Phase II study of nivolumab and temozolomide vs temozolomide in newly diagnosed elderly GBM patients (COGNO and CTC study)	Newly diagnosed patients with histologically confirmed supratentorial GBM (Grade IV astrocytoma), aged 65 years or older who have not received any treatment for GBM other than surgery	102	21
TRIALS IN FOLLOW-UP			
CATNON: Phase III trial of concurrent and adjuvant temozolomide chemotherapy for anaplastic glioma (EORTC, COGNO and CTC study)	Patients with non-1p/19q-deleted anaplastic glioma	100 (ANZ) 748 (Int'l)	82 (ANZ) 751 (Int'l)
VERTU: Veliparib, radiotherapy and temozolomide in unmethylated MGMT GBM (COGNO and CTC study)	Patients with newly diagnosed resected GBM with an unmethylated MGMT gene promoter	120	128
Molecular Screening and Therapeutics	Program (MoST) (collaborating with AGCM	IC)	
TRIALS IN START-UP			
MOST 5: Single-arm open-label signal-seeking Phase IIa trial of the activity of eribulin in patients with advanced CD31 positive angiosarcoma and selected CD31 positive sarcomas	Patients with advanced CD31 positive angiosarcoma and selected CD31 positive sarcomas	16	N/A
CURRENT TRIALS			
MOST 2: Single-arm open-label signal-seeking Phase IIa trial of the activity of durvalumab (MEDI4736) in combination with tremelimumab in patients with advanced rare or neglected cancers (CTC-led study)	Patients with advanced rare or neglected cancers	112	71
MOST 3: Single-arm open-label signal-seeking Phase IIa trial of the activity of olaparib in combination with durvalumab in patients with tumours with homologous recombination repair defects (CTC-led study)	Patients with tumours with homologous recombination repair defects	48	6
MOST 4: Single-arm open-label signal-seeking Phase IIa trial of the activity of vismodegib in patients with tumours harbouring PTCH1 or SMO mutations	Patients with tumours with PTCH1 or SMO mutations	16	3
TRIALS IN FOLLOW-UP			
MOST 1: Single-arm open-label signal-seeking Phase Ib/IIa trial of the CDK4/6 inhibitor palbociclib in patients with tumours with amplified D-type cyclins or CDK4 or inactivation of CDKN2A (CTC-led study with the Garvan Institute)	Patients with tumours with amplified D-type cyclins or CDK4 or inactivation of CDKN2A	16	16
CARDIOVASCULAR DISORDERS			

TRIALS IN START-UP Colchicine Cardiovascular Outcomes in Acute Adult patients with acute coronary syndrome 3,000 (Int'l) Coronary Syndrome Study — a randomised clinical trial (COLCARDIO-ACS) Long-term Study of LDL-c Lowering with Participants in the FOURIER OUTCOMES trial 10,000 (Int'l) Evolocumab: Observational Follow-up after the FOURIER Outcomes Study (FOURIER LEGACY)

Group	Participant	Target	Accrual
CARDIOVASCULAR DISORDERS continue	ed		
CURRENT TRIALS			
Restoring Microcirculatory Perfusion in ST- Elevation Myocardial Infarction: A randomised trial to evaluate the efficacy of low-dose intracoronary tenecteplase in STEMI patients with high microvascular resistance post-PCI (RESTORE-MI)	Adults with STEMI	800 (1,666 registered)	3
TRIALS IN FOLLOW-UP			
FIELD: Fenofibrate Intervention and Event Lowering in Diabetes (CTC-led study)	Patients with Type 2 diabetes	8,000	9,795
LIPID: Long-term intervention with pravastatin in ischaemic disease (CTC-led study)	Patients with a history of coronary heart disease	9,000	9,014
T4DM: A randomised, placebo-controlled, Phase III trial adding testosterone to a lifestyle programme to prevent Type 2 diabetes (University of Adelaide and CTC-led study)	Men with prediabetes or newly diagnosed diabetes and low testosterone	1,000	1,007
DIABETES			
CURRENT TRIALS			
FAME1-Eye: Fenofibrate and microvascular events in Type 1 diabetes (CTC-led study)	Adults with Type 1 diabetes and non-proliferative retinopathy	450	6
Performance of closed-loop artificial pancreas at home compared with best available technology (St Vincent's Hospital Melbourne, JDRF, Medtronic, CTC study)	People with Type 1 diabetes: paediatric cohort adult cohort	120 160	39 41
NEONATAL AND PERINATAL			
TRIALS IN START-UP			
ESPRESSO: Can esomeprazole improve outcomes in women at high risk of pre- eclampsia? A Phase II placebo-controlled randomised, multicentre clinical trial (CTC-led study)	Pregnant women at high risk of pre-eclampsia	500	0
CURRENT TRIALS			
LEAP: Lactoferrin evaluation in anaemia in pregnancy (CTC-led study)	Pregnant women with anaemia	800	101
PAEAN: Preventing adverse outcomes of neonatal hypoxic ischaemic encephalopathy (CTC-led study)	Newborn infants with signs of brain damage	300	170
TORPIDO: Targeted oxygenation in the respiratory care of premature infants at delivery: effects on developmental outcome (CTC-led study)	Neonates born before 29 weeks gestation	1,470	19
PROTECT: Can pentoxifylline improve long-term outcomes in pre-term infants with late-onset sepsis or necrotising enterocolitis? A pragmatic, randomised, placebo-controlled trial	Infants born less than 29 weeks gestation with suspected sepsis or necrotising enterocolitis	1,800	211
TRIALS IN FOLLOW-UP			
APTS: Australian placental transfusion study (CTC-led study)	Neonates born before 30 weeks gestation	1,600	1,634
LIET: Lactoferrin infant feeding trial	Infants horn weighing under 1 500 g	1 100	1 5/12

# Funding

![](_page_40_Figure_3.jpeg)

(CTC-led study)

## Staff profiles

Congratulations to the following people who received a staff award for their outstanding contribution to the CTC in 2018.

![](_page_41_Picture_2.jpeg)

**Andrew Martin** What do you do at the CTC? I am Principal Research Fellow in Biostatistics and have over 20 years' experience in clinical trials research, gained from senior roles within researchbased pharmaceutical organisations and the

What do you love about working for the CTC? Working together with great colleagues on interesting and important projects!

University of Sydney.

If you didn't work in clinical trials what would you like to do? Hmm, maybe I could become a botanist!

![](_page_41_Picture_6.jpeg)

Burcu Vachan What do you do at the CTC? Before becoming the Director of Clinical Trial Operations in 2018, I led the CTC oncology program for 15 years.

What do you love about working for the CTC? The intelligent and committed people both internally and externally.

If you didn't work in clinical trials what would you like to do? Something else in medicine or health. I love working in this field.

![](_page_41_Picture_10.jpeg)

Ha Le What do you do at the CTC? As part of the IT team, I provide and coordinate support and facilities to CTC staff and trials.

What do you love about working for the CTC? The people!

If you didn't work in clinical trials what would you like to do? Hike around the globe!

![](_page_41_Picture_14.jpeg)

Ilka Kolodziej What do you do at the CTC? I work in the Clinical Data Systems team.

What do you love about working for the CTC? I am passionate about working on clinical trials.

If you didn't work in clinical trials what would you like to do? I am very interested in research so would definitely stay in research but in a different area.

![](_page_41_Picture_18.jpeg)

Sarah Finlayson I have worked as a trial coordinator across oncology multicentre studies.

What do you love about working for the CTC? Everyone is so committed to what they do, the projects they work on and the patients at the end of it.

If you didn't work in clinical trials what would you like to do? I'm completing my MPH at the moment, and am really interested in the way the general public receive, process and interact with scientific information.

![](_page_41_Picture_22.jpeg)

![](_page_41_Picture_24.jpeg)

### What do you do at the CTC? and neonatalogy since 2014, coordinating large, international

#### **CTC** Executive

John Simes, Director Tony Keech, Deputy Director Burcu Vachan, Director Clinical Trial Operations Vera Terry, Business Director

Consultant Wendy Hague, Clinical Trials Strategic Consultant

Executive Support Paulette Anderson, Executive Assistant Susan Lohan, Executive Assistant

### **Oncology Trials Managers**

AGITG Christine Aiken, Associate Oncology Program Mgr Martijn (Martinus) Oostendorp, Associate Oncology Program Mgr Kate Wilson, Associate Oncology Program Mgr

#### ALTG

Sarah Chinchen, Associate Oncology Program Mgr Hannora Jurkovic, Associate Oncology Program Mgr Jenna Mitchell, Associate Oncology Program Mgr

#### ANZGOG

John Andrews, Associate Oncology Program Mgr Candace Carter, Associate Oncology Program Mgr

#### ANZUP

Kate Ford, Associate Oncology Program Mgr Margot Gorzeman, Associate Oncology Program Mgr

#### COGNO

Merryn Hall, Associate Oncology Program Mgr Candace Carter, Associate Oncology Program Mgr

#### MoST

Lucille Sebastian, MoST Program Mgr Ann Livingstone, Associate Oncology Program Mgr

#### **Oncology Trials Staff**

Amasy Alkhateeb, Senior Trials Coordinator Lisa Bailey, Senior Trials Coordinator Anjali Bhardwaj, Senior Trials Coordinator Nathan Bradshaw, Clinical Trials Coordinator Lesley Brassel Ngo, Group Coordinator Hannah Cahill, Clinical Trials Coordinator Mariam Chendeb. Clinical Trials Assistant Yvonne (Ching Loong) Cheung, Clinical Trials Coordinator Jennifer Chong, Clinical Trials Assistant Andrea (Lay Fong) Chiu, Clinical Trials Assistant

Xanthi Coskinas, Senior Project Mgr Georgina Dukoska, Clinical Trials Assistant Lauren Fisher, Clinical Trials Coordinator Tara Flores, Clinical Trials Coordinator Kathleen Harwood, Clinical Trials Assistant Stephanie Hollis, Clinical Trials Coordinator Savita Iyer, Clinical Trials Coordinator Marzena Kucharska-Kelly, Clinical Trials Coordinator Lenna Lai, Clinical Trials Assistant Ailsa Langford, Senior Trials Coordinator Loc (Phuoc) Le, Clinical Trials Coordinator Sandra Lee. Clinical Trials Assistant Margaret Lett, Clinical Trials Coordinator Joseph Levitt, Senior Trials Coordinator Anneliese Linaker. Clinical Trials Assistant Juanita Lopez Gaitan, Clinical Trials Assistant Angus McDonald, Clinical Trials Coordinator Kristen McParland, Clinical Trials Coordinator Raewyn O'Connor, Admin Assistant Catherine O'Connor, Clinical Trials Assistant Danielle Parker, Clinical Trials Coordinator Raynelle Penaflor, Clinical Trials Coordinator

Aliki Rasmiena, Clinical Trials Assistant Tet (Marie Antonette) Ricafort, Clinical Trials Coordinator Thida Thein, Clinical Trials Coordinator Evonne Tim, Clinical Trials Coordinator Eric Tsobanis, Senior Project Mgr Emily Tu. Senior Trials Coordinator Jaclyn Verghis, Senior Clinical Trials Coordinator Mariya Walker, Senior Clinical Trials Coordinator Anna Walsh, Senior Trials Coordinator Portia Westall, Clinical Trials Assistant Diana Winter, Senior Trials Coordinator

Nicole Wong, Senior Project Manager Sarah York, Senior Trials Coordinator Shirley Yung, Senior Trials Coordinator

#### Oncology Translational **Research** Team

Led by Sonia Yip, Oncology Translational Research Manager Michelle Parry, Associate Oncology Program Mgr, Translational Research Garry Chang, Clinical Trials Coordinator, Translational Research

### **Oncology Clinical Team**

Led by Martin Stockler, Co-Director of Cancer Trials Mustafa Khasraw, MRFF Career Development Fellow Belinda Kiely, Senior Research Fellow Nicola Lawrence, Oncology Research Fellow Chee Lee, Clinical Lead Chen (Yeh Chen) Lee, Oncology Research Fellow Rebecca Merceica-Bebber, NHMRC Early Career Fellow Antony Mersiades, Oncology Research Fellow Sayeda Naher, Oncology Research Fellow Felicia Roncolato. Research Fellow Hao-Wen Sim, Oncology Research Fellow Katrin Sjoquist, Clinical Lead Alison Zhang, Oncology Research Fellow

#### Cardiovascular/Diabetes Trials Staff

Led by Rebecca Mister, Program Manager Karen Bracken, Project Manager San Yip Chan, Admin Assistant Li Ping Li, Project Manager Sarah Mulray, Clinical Trials Coordinator Helen Pater, Project Manager Jessie Payne, Clinical Trials Coordinator Caitlin van Holst Pellekan, Clinical Trials Coordinator Annie Yeung, Senior Trials Coordinator

#### Collaborator

Chris Ryan, Telehealth Program Manager

#### Cardiovascular/Diabetes Clinical Team

Led by Alicia Jenkins, Professor, Diabetes & Vascular Medicine

Anandwardhan Hardikar, JDRF Career Devt Fellow; Associate Professor, Genetics and Epigentics Andrzej Januszewski, Senior Research Fellow

Mugdha Joglekar, JDRF Postdoctoral Fellow Wilson Wong, Postdoctoral Research Fellow

#### Neonatal and Perinatal Trials Team

Led by Alpana Ghadge, Project Manager Rebecca Brown, Senior Trials Coordinator Catherine Lu, Clinical Trials Assistant Sarah Finlayson, Senior Clinical Trials Coordinator

#### Neonatal and Perinatal Clinical Team

William Tarnow-Mordi, Professor, Neonatology

#### Ethics and Regulatory

Lara Hall, Senior Ethics and Regulatory Coordinator Jade Lor-Chan, Ethics and Regulatory Coordinator Hira Saud, Clinical Trials Assistant, Ethics and Regulatory

#### Health Economics

Led by Rachael Morton, Principal Research Fellow Health Economics Mbathio Dieng, Research Fellow Nikita Khanna, Research Assistant Mai Nguyen, Project Officer Karan Shah. Health Economist Anh Tran. Research Fellow

#### Systematic Reviews Led by Lisa Askie, Principal Research Fellow

Health Economics Lukas Staub, Clinical Epidemiologist Melina Willson, Project Manager Mark (Peter) Ayson, Project Officer Angie (Ekaterina) Barba Malespin, Project Administrator Slavica Berber, Project Officer Vendula Blaya-Novakova, Project Officer Saskia Cheyne, Project Officer Kylie Hunter, Senior Systematic Reviews Project Officer Lene (Anna) Seidler, Systematic Reviews Biostatistician (Research Fellow) Ava Tan-Koay, Systematic Reviews Project Officer Matthew Wynn, Systematic Reviews Project Administrator Sally (Sarah) Lord, Senior Research Fellow Jenny Chow, Coordinator, Systematic Reviews

and Research Methodology Nanda Arval, Biostatistician Rebecca Asher, Biostatistician Liz (Elizabeth) Barnes, Research Fellow Chris Brown, Research Fellow Karen Byth Wilson, Biostatistician Vanessa Cochrane, Admin Officer David Espinoza, Biostatistician Adrienne Kirby, Senior Research Fellow Ian Marschner, Professor Biostatistics Andrew Martin, Senior Research Fellow James Murray, Biostatistician Rachel O'Connell, Senior Research Fellow Kristy Robledo, Research Fellow

#### BCA

**Biostatistics** 

Erica Jobling, Executive Officer

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Cara McFarlane, Sydney Catalyst Project Officer, Education and Communications Talia Palacios, Clinical Trials Coordinator Emma Ramsay, Postdoctural Research Associate, T1T2 Translational Research Eve Simons, Sydney Catalyst Project Officer, Education and Communication Alison Young, Postdoctoral Research Associate

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Salma Fahridin, Clinical Data Project Manager

### Data Systems Development

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## Publications

### As at December 2018

- 1. Agbata EN, Morton RL, Bisoffi Z, Bottieau E. Greenaway C. Biggs BA. Montero N, Tran A, Rowbotham N, Arevalo-Rodriguez I, Myran DT, Noori T, Alonso-Coello P, Pottie K, Requena-Mendez A. Effectiveness of screening and treatment approaches for schistosomiasis and strongyloidiasis in newly-arrived migrants from endemic countries in the EU/EEA: A systematic review. International Journal of Environmental Research and Public Health. 2018:16(1).
- 2. Alexander BM, Ba S, Berger MS, Berry DA, Cavenee WK, Chang SM, Cloughesy TF. Jiang T. Khasraw M. Li W. Mittman R. Poste GH. Wen PY. Yung WKA. Barker AD, Network GA. Adaptive global innovative learning environment for glioblastoma: GBM Agile. Clinical Cancer Research. 2018;24(4):737–743.
- 3. Andre T, Vernerey D, Mineur L, Bennouna J. Desrame J. Faroux R. Fratte S, Hug de Larauze M, Paget-Bailly S. Chibaudel B. Bez J. Dauba J. Louvet C, Lepere C, Dupuis O, Becouarn Y, Mabro M, Egreteau J, Bouche O, Deplanque G, Ychou M, Galais MP, Ghiringhelli F. Dourthe LM. Bachet JB, Khalil A, Bonnetain F, de Gramont A, Taieb J, for PRODIGE Investigators, Gercor Federation Francaise de Cancerologie Digestive, Unicancer. Three versus six months of oxaliplatinbased adjuvant chemotherapy for patients with stage III colon cancer: Disease-free survival results from a randomised, open-label, international duration evaluation of adjuvant (IDEA) France, phase III trial. Journal of Clinical Oncology. 2018;36(15):1469-1477.
- 4. Asher R, Obermair A, Janda M, Gebski V. Disease-free and survival outcomes for total laparoscopic hysterectomy compared with total abdominal hysterectomy in earlystage endometrial carcinoma: A meta-analysis. International Journal of Gynecological Cancer. 2018;28(3):529-538.
- 5. Askie LM. Darlow BA. Finer N. Schmidt B. Stenson B. Tarnow-Mordi W. Davis PG, Carlo WA, Brocklehurst P, Davies LC. Das A. Rich W. Gantz MG. Roberts RS, Whyte RK, Costantini L, Poets C. Asztalos E. Battin M. Halliday HL Marlow N, Tin W, King A, Juszczak

E, Morley CJ, Doyle LW, Gebski V. Hunter KE. Simes RJ. Neonatal Oxygenation Prospective Metaanalysis Collaboration. Association between oxygen saturation targeting and death or disability in extremely pre-term infants in the Neonatal Oxygenation Prospective Metaanalysis Collaboration, JAMA. 2018;319(21):2190-2201.

- 6. Askie L, Duley L. Associations between the timing and dosing of aspirin prophylaxis and term and pre-term pre-eclampsia. BMJ Evidence-Based Medicine. 2018. doi: 10.1136/ bmiebm-2018-110931
- Askie LM. Davies LC. Schreiber MD. Hibbs AM, Ballard PL, Ballard RA, Race effects of inhaled nitric oxide in pre-term infants: An individual participant data meta-analysis. Journal of Pediatrics. 2018;193:34-39 e32.
- 8. Au L, Turner N, Wong HL, Field K, Lee B, Boadle D, Cooray P, Karikios D. Kosmider S. Lipton L. Nott L. Parente P, Tie J, Tran B, Wong R, Yip D, Shapiro J, Gibbs P. How accurate are medical oncologists' impressions of management of metastatic colorectal cancer in Australia? Asia-Pacific Journal of Clinical Oncology. 2018;14(2):e167e174.
- 9. Ballard RA, Ballard PL, Askie LM, Schreiber MD, Hibbs AM, Torgerson DG, Keller RL. Reply. Journal of Pediatrics. 2018;201:300-301.
- 10. Battaglini E, Park SB, Barnes EH, Goldstein D. A double-blind, placebocontrolled, phase II randomised cross-over trial investigating the use of duloxetine for the treatment of chemotherapy-induced peripheral neuropathy. Contemporary Clinical Trials. 2018;70:135–138.
- 11. Bekendam RH, Iyu D, Passam F, Stopa JD, De Ceunynck K, Muse O, Bendapudi PK, Garnier CL, Gopal S, Crescence L. Chiu J. Furie B. Panicot-Dubois L. Hogg PJ, Dubois C, Flaumenhaft R. Protein disulfide isomerase regulation by nitric oxide maintains vascular quiescence and controls thrombus formation. Journal of Thrombosis and Haemostasis. 2018;16(11):2322-2335.
- 12. Bhattacharva IS. Kirby AM. Bliss JM. Coles CE. Can interrogation of tumour characteristics lead us to safely omit adjuvant radiotherapy in patients with

early breast cancer? Clinical Oncology. 2018:30(3):158-165.

- 13. Blinman PL, Davis ID, Martin A, Troon S, Sengupta S, Hovey E, Coskinas X, Kaplan R, Ritchie A, Meade A, Eisen T, Stockler MR. Patients' preferences for adjuvant sorafenib after resection of renal cell carcinoma in the SORCE trial: What makes it worthwhile? Annals of Oncology. 2018;29(2):370-376.
- 14. Bohula EA, Giugliano RP, Leiter LA, Verma S, Park JG, Sever PS, Lira Pineda A, Honarpour N, Wang H, Murphy SA, Keech A, Pedersen TR, Sabatine MS. Inflammatory and cholesterol risk in the FOURIER trial. Circulation. 2018;138(2):131-140.
- 15. Bohula EA. Scirica BM. Fanola C. Inzucchi SE, Keech A, McGuire DK, Smith SR, Abrahamsen T, Francis BH, Miao W, Perdomo CA, Satlin A, Wiviott SD, Sabatine MS. Design and rationale for the cardiovascular and metabolic effects of lorcaserin in overweight and obese patients—Thrombolysis In Mvocardial Infarction 61 (CAMELLIA-TIMI 61) trial. American Heart Journal. 2018:202:39-48
- 16. Bohula EA, Wiviott SD, McGuire DK, Inzucchi SE, Kuder J, Im K, Fanola CL, Qamar A, Brown C, Budaj A, Garcia-Castillo A. Gupta M. Leiter LA, Weissman NJ, White HD, Patel T, Francis B, Miao W, Perdomo C, Dhadda S. Bonaca MP. Ruff CT. Keech AC. Smith SR, Sabatine MS, Scirica BM, CAMELLIA-TIMI Steering Committee, Investigators. Cardiovascular safety of lorcaserin in overweight or obese patients. New England Journal of Medicine, 2018:379(12):1107-1117.
- 17. Bohula EA, Scirica BM, Inzucchi SE, McGuire DK, Keech AC, Smith SR, Kanevsky E, Murphy SA, Leiter LA, Dwyer JP, Corbalan R, Hamm C, Kaplan L. Nicolau JC. Ophuis TO. Ray KK, Ruda M, Spinar J, Patel T, Miao W. Perdomo C. Francis B. Dhadda S. Bonaca MP, Ruff CT, Sabatine MS, Wiviott SD, CAMELLIA-TIMI Steering Committee, Investigators. Effect of lorcaserin on prevention and remission of Type 2 diabetes in overweight and obese patients (CAMELLIA-TIMI 61): A randomised, placebo-controlled trial. Lancet. 2018;392(10161):2269-2279. 18. Bonaca MP, Nault P, Giugliano RP, Keech AC, Pineda AL, Kanevsky E,

Kuder J, Murphy SA, Jukema JW, Lewis BS, Tokgozoglu L, Somaratne R, Sever PS, Pedersen TR, Sabatine MS. Lowdensity lipoprotein cholesterol lowering 25. Chandramouli C, Reichelt ME, Curl with evolocumab and outcomes in patients with peripheral artery disease: Insights from the FOURIER trial (Further cardiovascular OUtcomes Research with pcsk9 Inhibition in subjects with Elevated Risk). Circulation. 2018:137(4):338-350.

- 19. Brakoulias V, Starcevic V, Milicevic D, Hannan A, Viswasam K, Brown C. The Nepean belief scale: Preliminary reliability and validity in obsessive compulsive disorder. International Journal of Psychiatry Clinical Practice. 2018:22(2):84-88.
- 20. Brazionis L, Jenkins A, Keech A, Ryan C, Brown A, Boffa J, Bursell S, Centre of Research Excellence in Diabetic Retinopathy, the TeamsNet Study Group, Diabetic retinopathy in a remote Indigenous primary healthcare population: A central Australian diabetic retinopathy screening study in the Telehealth Eye and Associated Medical Services Network project. Diabetic Medicine. 2018;35(5):630-639.
- 21. Butera D, Passam F, Ju L, Cook KM, Woon H, Aponte-Santamaria C, Gardiner E, Davis AK, Murphy DA, Bronowska A, Luken BM, Baldauf C, Jackson S, Andrews R, Grater F, Hogg PJ. Autoregulation of von Willebrand factor function by a disulfide bond switch. Science Advances, 2018:4(2):eaag1477.
- 22. Canfell K, Saville M, Caruana M, Gebski V. Darlington-Brown J. Brotherton J, Heley S, Castle PE. Protocol for COMPASS: A randomised controlled trial of primary HPV testing versus cytology screening for cervical cancer in HPVunvaccinated and vaccinated women aged 25-69 years living in Australia. BMJ Open. 2018:8(1):e016700.
- 23. Caudwell-Hall J, Kamisan Atan I, Brown C, Guzman Rojas R, Langer S, Shek KL, Dietz HP. Can pelvic floor trauma be predicted antenatally? Acta Obstetricia et Gynecologica Scandinavica. 2018;97(6):751-757.
- 24. Caumo F. Romanucci G. Hunter K. Zorzi M, Brunelli S, Macaskill P, Houssami N. Comparison of breast cancers detected in the Verona screening program following transition to digital breast tomosynthesis screening with cancers

detected at digital mammography screening. Breast Cancer Research and Treatment. 2018;170(2):391-397. CL. Varma U. Bienvenu LA. Koutsifeli P, Raaijmakers AJA, De Blasio MJ, Qin CX. Jenkins AJ. Ritchie RH. Mellor KM. Delbridge LMD. Diastolic dysfunction is more apparent in stz-induced diabetic female mice, despite less pronounced hyperglycemia. Science Reports. 2018;8(1):2346. 26. Cheng JY, Martin A, Ramanathan G,

- 2018:8(4):e021100.
- 10.1071/AH16209
- for advanced pancreatic cancer. Reviews, 2018:3:CD011044.
- 1921. 31. Clark MD, Szczepura A, Gumber A systematic review of discrete

Cooper BA. Optimising live kidney donor workup: A decision analysis approach. Transplantation Direct. 2018;4(5):e340. 27. Chiang JI, Furler J, Mair FS, Jani B, Nicholl BI, Jenkins A, Condron P, O'Neal D, Manski-Nankervis JA. Impact of multimorbidity count on all-cause mortality and glycaemic outcomes in people with Type 2 diabetes: A systematic review protocol. BMJ Open.

28. Chim L, Salkeld G, Kelly PJ, Lipworth W, Hughes DA, Stockler MR. Community views on factors affecting medicines resource allocation: Cross-sectional survey of 3080 adults in Australia. Australian Health Review, 2018, doi:

29. Chin V, Nagrial A, Sjoquist K, O'Connor CA, Chantrill L, Biankin AV, Scholten RJ, Yip D. Chemotherapy and radiotherapy Cochrane Database of Systematic

30. Chow PKH, Gandhi M, Tan SB, Khin MW, Khasbazar A, Ong J, Choo SP, Cheow PC, Chotipanich C, Lim K, Lesmana LA, Manuaba TW, Yoong BK, Raj A, Law CS, Cua IHY, Lobo RR, Teh CSC, Kim YH, Jong YW, Han HS, Bae SH, Yoon HK, Lee RC, Hung CF. Peng CY. Liang PC. Bartlett A. Kok KYY, Thng CH, Low AS, Goh ASW, Tay KH. Lo RHG. Goh BKP. Ng DCE. Lekurwale G. Liew WM. Gebski V. Mak KSW, Soo KC, Asia-Pacific Hepatocellular Carcinoma Trials G. Sirvenib: Selective internal radiation therapy versus sorafenib in Asia-Pacific patients with hepatocellular carcinoma. Journal of Clinical Oncology. 2018;36(19):1913-

> A, Howard K, Moro D, Morton RL. Measuring trade-offs in nephrology:

choice experiments and conjoint analysis studies. Nephrology, Dialysis, Transplantation. 2018;33(2):348-355.

- 32. Couttas TA, Kain N, Tran C, Chatterton Z. Kwok JB. Don AS. Age-dependent changes to sphingolipid balance in the human hippocampus are gender-specific and may sensitise to neurodegeneration. Journal of Alzheimer's Disease. 2018;63(2):503-514.
- 33. Critselis E, Vlahou A, Stel VS, Morton RL. Cost-effectiveness of screening Type 2 diabetes patients for chronic kidney disease progression with the ckd273 urinary peptide classifier as compared to urinary albumin excretion. Nephrology, Dialysis, Transplantation. 2018;33(3):441-449.
- 34. Cust AE, Fenton GL, Smit AK, Espinoza D. Dobbinson S. Brodie A. Dang HTC. Kimlin MG. Validation of questionnaire and diary measures of time outdoors against an objective measure of personal ultraviolet radiation exposure Photochemistry and Photobiology. 2018;94(4):815-820.
- 35. Daniels B, Kiely BE, Houssami N, Lord SJ, Dobbins T, Lu CY, Ward RL, Pearson SA. Survival outcomes for Australian women receiving trastuzumab for HER2-positive metastatic breast cancer following (neo)adjuvant trastuzumab: A national population-based observational study (2006–2014). British Journal of Cancer. 2018;118(3):441-447.
- 36. Daniels B, Kiely BE, Lord SJ, Houssami N, Lu CY, Ward RL, Pearson SA. Longterm survival in trastuzumab-treated patients with HER2-positive metastatic breast cancer: Real-world outcomes and treatment patterns in a whole-ofpopulation Australian cohort (2001-2016). Breast Cancer Research and Treatment. 2018;171(1):151–159.
- 37. Daniels B. Kielv BE. Lord SJ. Houssami N. Lu CY. Ward RL. Pearson SA. Trastuzumab for metastatic breast cancer: Real-world outcomes from an Australian whole-of-population cohort (2001–2016). Breast. 2018;38:7–13.
- 38. Daniels B, Girosi F, Tervonen H, Kiely BE. Lord SJ. Houssami N. Pearson SA. Adherence to prescribing restrictions for HER2-positive metastatic breast cancer in Australia: A national populationbased observational study (2001–2016). PLoS ONE. 2018;13(7):e0198152.

**88** CLINICAL TRIALS CENTRE

- 39. Das B, Sundaram V, Tarnow-Mordi W. Ghadge A. Dhaliwal I K. Kumar P. Placental transfusion in pre-term neonates of 30-33 weeks' gestation: A randomised controlled trial. Journal of Perinatology. 2018;38(5):496-504.
- 40. Das B. Sundaram V. Kumar P. Mordi WT. Dhaliwal LK, Das R. Effect of placental transfusion on iron stores in moderately pre-term neonates of 30-33 weeks gestation. Indian Journal of Pediatrics. 2018;85(3):172-178.
- 41. Elmadahm A, Lord SJ, Hudson HM, Lee CK, Buizen L, Farshid G, Gebski VJ, Gill PG. Performance of four published risk models to predict sentinel lymph-node involvement in Australian women with early breast cancer. Breast. 2018;41:82-88
- 42. Ferguson SD, Zheng S, Xiu J, Zhou S, Khasraw M, Brastianos PK, Kesari S, Hu J, Rudnick J, Salacz ME, Piccioni D, Huang S. Davies MA, Glitza IC, Heymach JV, Zhang J, Ibrahim NK, DeGroot IF. McCarty L O'Brien BL Sawaya R. Verhaak RGW, Reddy SK, Priebe W, Gatalica Z, Spetzler D, Heimberger AB. Profiles of brain metastases: Prioritisation of therapeutic targets. International Journal of Cancer. 2018;143(11):3019-3026.
- 43. Fogarty M, Osborn DA, Askie L, Seidler AL, Hunter K, Lui K, Simes J, Tarnow Mordi W. Delaved vs early umbilical cord clamping for pre-term infants: A systematic review and meta-analysis. American Journal of Obstetrics and Gynecology. 2018;218(1):1–18.
- 44. Friedlander M, Gebski V, Gibbs E, Davies L, Bloomfield R, Hilpert F, Wenzel LB, Eek D, Rodrigues M, Clamp A, Penson RT, Provencher D, Korach J, Huzarski T. Vidal L. Salutari V. Scott C. Nicoletto MO, Tamura K, Espinoza D, Joly F, Pujade-Lauraine E. Health-related quality of life and patient-centred outcomes with olaparib maintenance after chemotherapy in patients with platinum-sensitive, relapsed ovarian cancer and a BRCA1/2 mutation (SOLO2/ENGOT OV-21): A placebocontrolled, phase 3 randomised trial. Lancet Oncology. 2018;19(8):1126-1134.
- 45. Fuller NR, Sainsbury A, Caterson ID, Denyer G, Fong M, Gerofi J, Leung C, Lau NS, Williams KH, Januszewski AS, Jenkins AJ, Markovic TP. Effect of a

high-egg diet on cardiometabolic risk factors in people with Type 2 diabetes: The diabetes and egg (DIABEGG) studyrandomised weight-loss and follow-up phase. American Journal of Clinical Nutrition. 2018;107(6):921-931.

- 46. Furler J. O'Neal DN. Speight J. Blackberry I, Manski-Nankervis JA, Thuraisingam S, de La Rue K, Ginnivan L, Browne JL, Holmes-Truscott E, Khunti K, Dalziel K, Chiang J, Audehm R, Kennedy M, Clark M, Jenkins AJ, Liew D, Clarke P, Best J. GP-OSMOTIC trial protocol: An individually randomised controlled trial to determine the effect of retrospective continuous glucose monitoring (R-CGM) on HbA1c in adults with Type 2 diabetes in general practice. BMJ Open. 2018:8(7):e021435.
- 47. Garsed DW, Alsop K, Fereday S, Emmanuel C, Kennedy CJ, Etemadmoghadam D, Gao B, Gebski V. Gares V. Christie EL. Wouters MCA. Milne K, George J, Patch AM, Li J, Arnau GM. Semple T. Gadipally SR. Chiew YE. Hendley J, Mikeska T, Zapparoli GV, Amarasinghe K, Grimmond SM, Pearson JV, Waddell N, Hung J, Stewart CJR, Sharma R, Allan PE, Rambau PF, McNally O, Mileshkin L, Hamilton A, Ananda S, Grossi M, Cohen PA, Leung YC, Rome RM. Beale P. Blomfield P. Friedlander M. Brand A, Dobrovic A, Kobel M, Harnett P. Nelson BH. Bowtell DDL. deFazio A. Nadia Traficante, Australian Ovarian Cancer Study Group. Homologous recombination DNA repair pathway disruption and retinoblastoma protein loss are associated with exceptional survival in high-grade serous ovarian cancer. Clinical Cancer Research.
- 2018;24(3):569-580. 48. Ge L. Chee SN. Robledo KP. Lowe P. Comparison of skin cancers in liver and renal transplant recipients: Results of a prospective study in an Australian tertiary referral centre. Australasian Journal of Dermatology. 2018;59(4):291-296.
- 49. Gebski V, Gares V, Gibbs E, Byth K. Data maturity and follow-up in time-toevent analyses. International Journal of Epidemiology. 2018. doi: 10.1093/ije/ dyy013
- 50. Gebski V, Yang JC, Lee CK. Estimating and interpreting the overall survival benefit of checkpoint inhibitors via meta-analysis-reply. JAMA Oncology.

2018;4(8):1138-1139.

- 51. Gebski V. Byth K. Lowering the pivalue threshold, JAMA, 2018:320(9):935-936.
- 52. Gebski V. Huttunen T. Joensuu H. Trastuzumab therapy for 9 weeks vs 1 year for human epidermal growth factor 2-positive breast cancerreply. JAMA Oncol. 2018. 10.1001/ iamaoncol.2018.5739
- 53. Geerligs L, Rankin NM, Shepherd HL. Butow P. Hospital-based interventions: A systematic review of staff-reported barriers and facilitators to implementation processes. Implementation Science. 2018;13(1):36.
- 54. Gibbs P. Heinemann V. Sharma NK. Taieb J, Ricke J, Peeters M, Findlay M, Robinson B. Jackson C. Strickland A. Gebski V, Van Buskirk M, Zhao H, van Hazel G, Sirflox, FOXFIRE Global Trial Investigators. Effect of primary tumor side on survival outcomes in untreated patients with metastatic colorectal cancer when selective internal radiation therapy is added to chemotherapy: Combined analysis of two randomised controlled studies. Clinical Colorectal Cancer. 2018;17(4):e617-e629.
- 55. Giugliano RP, Keech AC, Sever PS, Pedersen TR, Sabatine MS. Clinical benefits of evolocumab appear less than hoped — authors' reply. Lancet. 2018;391(10124):934-935.
- 56. Goey KKH, Sorbye H, Glimelius B, Adams RA, Andre T, Arnold D, Berlin JD, Bodoky G, de Gramont A, Diaz-Rubio E, Eng C, Falcone A, Grothey A, Heinemann V, Hochster HS, Kaplan RS, Kopetz S, Labianca R, Lieu CH, Meropol NJ, Price TJ, Schilsky RL, Schmoll HJ. Shacham-Shmueli E. Shi O. Sobrero AF, Souglakos J, Van Cutsem E, Zalcberg J, van Oijen MGH, Punt CJA, Koopman M. Consensus statement on essential patient characteristics in systemic treatment trials for metastatic colorectal cancer: Supported by the ARCAD group, European Journal of Cancer. 2018;100:35-45.
- 57. Goldsbury DE, Yap S, Weber MF, Veerman L, Rankin N, Banks E, Canfell K, O'Connell DL. Health services costs for cancer care in Australia: Estimates from the 45 and Up study. PLoS ONE. 2018:13(7):e0201552.
- 58. Graham PS, Kaidonis G, Abhary S, Gillies MC. Daniell M. Essex RW. Chang JH. Lake SR. Pal B. Jenkins AJ. Hewitt AW.

Lamoureux EL, Hykin PG, Petrovsky N, Brown MA, Craig JE, Burdon KP. Genome-wide association studies for diabetic macular oedema and proliferative diabetic retinopathy. BMC Medical Genetics. 2018;19(1):71.

- 59. Greenaway C, Pareek M, Abou Chakra CN, Walji M, Makarenko I, Alabdulkarim B. Hogan C. McConnell T. Scarfo B. Christensen R. Tran A. Rowbotham N. van der Werf MI. Noori T. Pottie K. Matteelli A, Zenner D, Morton RL. The effectiveness and cost-effectiveness of screening for latent tuberculosis among migrants in the EU/EEA: A systematic review. Euro Surveillance. 2018:23(14).
- 60. Greenaway C, Pareek M, Abou Chakra CN. Walii M. Makarenko I. Alabdulkarim B, Hogan C, McConnell T, Scarfo B, Christensen R, Tran A, Rowbotham N, Noori T, van der Werf MJ, Pottie K, Matteelli A, Zenner D, Morton RL. The effectiveness and cost-effectiveness of screening for active tuberculosis among migrants in the EU/FEA: A systematic review. Euro Surveillance. 2018;23(14).
- 61. Greenaway C, Makarenko I, Chakra CNA, Alabdulkarim B, Christensen R, Palayew A, Tran A, Staub L, Pareek M, Meerpohl JJ, Noori T, Veldhuijzen I, Pottie K, Castelli F, Morton RL. The effectiveness and cost-effectiveness of hepatitis c screening for migrants in the EU/EEA: A systematic review. International Journal of Environmental Research and Public Health, 2018:15(9).
- 62. Grothey A, Sobrero AF, Shields AF, Yoshino T, Paul J, Taieb J, Souglakos J, Shi Q, Kerr R, Labianca R, Meyerhardt JA, Vernerey D, Yamanaka T, Boukovinas I, Meyers JP, Renfro LA, Niedzwiecki D, Watanabe T, Torri V, Saunders M, Sargent DJ. Andre T. Iveson T. Duration of adjuvant chemotherapy for stage III colon cancer. New England Journal of Medicine. 2018;378(13):1177-1188.
- 63. Gyawali P, Martin SA, Heilbronn LK, Vincent AD, Jenkins AJ, Januszewski AS, Taylor AW, Adams RJT, O'Loughlin PD. Wittert GA. Cross-sectional and longitudinal determinants of serum sex hormone binding globulin (SHBG) in a cohort of community-dwelling men. PLoS ONE. 2018;13(7):e0200078.
- 64. Harmer JA, Keech AC, Veillard AS, Skilton MR, Watts GF, Celermajer DS, FIELD Vascular Study Investigators. Fenofibrate effects on carotid artery

intima-media thickness in adults with Type 2 diabetes mellitus: A FIFLD substudy. Diabetes Research and Clinical Practice. 2018:141:156-167. 65. Harris M, Gebski V. Re: Medical oncology group of Australia position statement and membership survey on voluntary assisted dying. Internal Medicine Journal, 2018:48(11):1414-1415.

S, Dee S, Leblanc J, Matzke L, O'Donoghue S, Carpenter J, Carter C, Rush A, Byrne J, Barnes R, Mes-Messons AM, Watson P. Is your biobank up to standards? A review of the national Canadian tissue repository network required operational practice standards and the controlled documents of a certified biobank. Biopreservation and Biobanking. 2018;16(1):36-41. Tran A. Wong N. Lintzeris N. Simes J. Stockler M, Morton RL. Systematic review of the costs and benefits of prescribed cannabis-based medicines for the management of chronic illness: Lessons from multiple sclerosis.

66. Hartman V. Castillo-Pelavo T. Babinszky 67. Herzog S, Shanahan M, Grimison P, Pharmacoeconomics. 2018;36(1):67-78.

- 68. Higgs P, Janda M, Asher R, Gebski functional outcomes after total abdominal vs total laparoscopic e414.
- Health. 2018;15(10).
- analysis and survey. BMJ Open. 2018;8(3):e019983.
- J. Scudder C, Boyd KA, Briggs A,

V, Forder P, Obermair A. Pelvic floor hysterectomy for endometrial cancer. American Journal of Obstetrics and Gynecology. 2018;218(4):419 e411-419

69. Hui C, Dunn J, Morton R, Staub LP, Tran A, Hargreaves S, Greenaway C, Biggs BA, Christensen R, Pottie K. Interventions to improve vaccination uptake and costeffectiveness of vaccination strategies in newly-arrived migrants in the EU/EEA: A systematic review. International Journal of Environmental Research and Public

70. Hunter KE, Seidler AL, Askie LM. Prospective registration trends, reasons for retrospective registration and mechanisms to increase prospective registration compliance: Descriptive

71. Iveson TJ, Kerr RS, Saunders MP, Cassidy J, Hollander NH, Tabernero J, Haydon A, Glimelius B, Harkin A, Allan K, McQueen

Waterston A, Medley L, Wilson C, Ellis R,

Essapen S, Dhadda AS, Harrison M, Falk S. Raouf S. Rees C. Olesen RK. Propper D, Bridgewater J, Azzabi A, Farrugia D. Webb A. Cunningham D. Hickish T. Weaver A, Gollins S, Wasan HS, Paul J. 3 versus 6 months of adjuvant oxaliplatinfluoropyrimidine combination therapy for colorectal cancer (SCOT): An international, randomised, phase 3. non-inferiority trial. Lancet Oncology. 2018:19(4):562-578

- 72. Jenkins AJ, Welsh P, Petrie JR. Metformin, lipids and atherosclerosis prevention. Current Opinion in Lipidology. 2018;29(4):346-353.
- 73. Jenkins A, Lengyel I, Rutter GA, Lowe N, Shai I, Tirosh A, Petro T, Khamaisi M, Andrews S, Zmora N, Gross A, Maret W, Lewis EC, Moran A. Obesity, diabetes and zinc: A workshop promoting knowledge and collaboration between the UK and Israel, November 28–30, 2016 – Israel, Journal of Trace Elements in Medicine and Biology. 2018;49:79-85
- 74. Johnson SB, Butow PN, Bell ML, Detering K, Clayton JM, Silvester W, Kiely BE, Clarke S, Vaccaro L, Stockler MR, Beale P, Fitzgerald N, Tattersall MHN. A randomised controlled trial of an advance care planning intervention for patients with incurable cancer. British Journal of Cancer. 2018:119(10):1182-1190.
- 75. Jonker DJ, Nott L, Yoshino T, Gill S, Shapiro J, Ohtsu A, Zalcberg J, Vickers MM, Wei AC, Gao Y, Tebbutt NC, Markman B, Price T, Esaki T, Koski S, Hitron M, Li W, Li Y, Magoski NM, Li CJ, Simes J, Tu D, O'Callaghan CJ. Napabucasin versus placebo in refractory advanced colorectal cancer: A randomised phase 3 trial. Lancet Gastroenterology and Hepatology. 2018;3(4):263-270.
- 76. Kapadia V. Rabi Y. Oei JL. The Goldilocks principle. Oxygen in the delivery room: When is it too little, too much, and just right? Seminars in Fetal and Neonatal Medicine, 2018:23(5):347-354.
- 77. Kelly CB, Hookham MB, Yu JY, Jenkins AJ, Nankervis AJ, Hanssen KF, Garg SK, Scardo JA, Hammad SM, Menard MK, Aston CE, Lyons TJ. Subclinical first trimester renal abnormalities are associated with pre-eclampsia in normoalbuminuric women with Type 1 diabetes. Diabetes Care.

2018;41(1):120-127.

- 78. Kelly CB, Hookham MB, Yu JY, Jenkins AL Nankervis AL Hanssen KE Garg SK. Scardo JA. Hammad SM. Menard MK, Aston CE, Lyons TJ. Response to comment on Kelly et al. Subclinical first trimester renal abnormalities are associated with pre-eclampsia in normoalbuminuric women with Type 1 diabetes. Diabetes Care 2018:41:120-127. Diabetes Care. 2018;41(6):e102e103.
- 79. Khemka A, Mograby O, Lord SJ, Doyle Z, Al Muderis M. Total hip arthroplasty by the direct anterior approach using a neck-preserving stem: Safety, efficacy and learning curve. Indian Journal of Orthopaedics. 2018;52(2):124-132.
- 80. King MT. Stockler MR. O'Connell RL. Buizen L, Joly F, Lanceley A, Hilpert F, Okamoto A, Aotani E, Bryce J, Donnellan P, Oza A, Avall-Lundqvist E, Berek JS, Sehouli J, Feeney A, Berton-Rigaud D. Costa DSJ. Friedlander ML. GCIG Symptom Benefit Group. Measuring what matters most: Validation of the measure of ovarian symptoms and treatment, a patient-reported outcome measure of symptom burden and impact of chemotherapy in recurrent ovarian cancer. Quality of Life Research. 2018;27(1):59-74.
- 81. Koopal C. Visseren FLJ. Westerink J. van der Graaf Y, Ginsberg HN, Keech AC. Predicting the effect of fenofibrate on cardiovascular risk for individual patients with Type 2 diabetes. Diabetes Care. 2018;41(6):1244-1250.
- 82. Lam JKS. Sundaresan P. Gebski V. Veness MJ. Immunocompromised patients with metastatic cutaneous nodal squamous cell carcinoma of the head and neck: Poor outcome unrelated to the index lesion. Head and Neck. 2018:40(5):985-992.
- 83. Larsson CR, Januszewski AS, McGrath RT, Ludvigsson J, Keech AC, MacIsaac RJ, Ward GM, O'Neal DN, Fulcher GR, Jenkins AJ. Suboptimal behaviour and knowledge regarding overnight glycaemia in adults with Type 1 diabetes is common. Internal Medicine Journal. 2018:48(9):1080-1086.
- 84. Lawrence NJ, Chan H, Toner G, Stockler MR, Martin A, Yip S, Wong N, Yeung A. Mazhar D. Pashankar F. Frazier L. McDermott R, Walker R, Tan H, Davis ID. Grimison P. ANZUP. Protocol for

**90** CLINICAL TRIALS CENTRE

the P3BEP trial (ANZUP 1302): An international randomised phase 3 trial of accelerated versus standard BEP chemotherapy for adult and paediatric male and female patients with intermediate and poor-risk metastatic germ cell tumours. BMC Cancer. 2018;18(1):854.

- 85. Lawrence NJ, Martin A, Davis ID, Troon S. Sengupta S. Hovey E. Coskinas X. Kaplan R, Smith B, Ritchie A, Meade A. Fisen T. Blinman P. Stockler MR. What survival benefits are needed to make adjuvant sorafenib worthwhile after resection of intermediate- or high-risk renal cell carcinoma? Clinical investigators' preferences in the SORCE trial. Kidney Cancer. 2018;2(2):123-131.
- 86. Lee CK. Hudson M. Simes J. Ribi K. Bernhard J, Coates AS. When do patientreported quality of life indicators become prognostic in breast cancer? Health and Quality of Life Outcomes. 2018:16(1):13.
- 87. Lee CK, Man J, Lord S, Cooper W, Links M. Gebski V. Herbst RS. Gralla RJ. Mok T, Yang JC. Clinical and molecular characteristics associated with survival among patients treated with checkpoint inhibitors for advanced non-small cell lung carcinoma: A systematic review and meta-analysis. JAMA Oncology. 2018:4(2):210-216.
- 88. Lee CK, Lord S, Marschner I, Wu YL. Sequist L. Rosell R. Fukuoka M. Mitsudomi T, Asher R, Davies L, Gebski V, Gralla R, Mok T, Chih-Hsin Yang J. The value of early depth of response in predicting long-term outcome in EGFR mutant lung cancer. Journal of Thoracic Oncology. 2018;13(6):792-800.
- 89. Li M. Thompson JMD. Cronin RS. Gordon A, Raynes-Greenow C, Heazell AEP, Stacey T, Culling V, Bowring V, Mitchell EA, McCowan LME, Askie L. The collaborative IPD of sleep and stillbirth (CRIBSS): Is maternal going-to-sleep position a risk factor for late stillbirth and does maternal sleep position interact with foetal vulnerability? An individual participant data metaanalysis study protocol. BMJ Open. 2018;8(4):e020323.
- 90. Lim WY, Morton RL, Turner RM, Jenkins MC, Guitera P, Irwig L, Webster AC, Dieng M, Saw RPM, Low D, Low C, Bell KJL. Patient preferences for follow-up after recent excision of a localised

melanoma. JAMA Dermatology. 2018;154(4):420-427.

- 91. Lim WY, Turner RM, Morton RL, Jenkins MC, Irwig L, Webster AC, Dieng M, Saw RPM, Guitera P, Low D, Low C, Bell KJL. Use of shared care and routine tests in follow-up after treatment for localised cutaneous melanoma. BMC Health Services Research. 2018;18(1):477.
- 92. Lo BH, Klopper F, Barnes E, Williams K. Autism spectrum disorder. Journal of Paediatrics and Child Health. 2018:54(2):212-213.
- 93. Luen SJ, Asher R, Lee CK, Savas P, Kammler R, Dell'Orto P, Biasi OM, Demanse D, JeBailey L, Dolan S, Hackl W, Thuerlimann B, Viale G, Colleoni M, Regan MM, Loi S. Association of somatic driver alterations with prognosis in postmenopausal, hormone receptorpositive, HER2-negative early breast cancer: A secondary analysis of the BIG 1-98 randomised clinical trial. JAMA Oncology. 2018;4(10):1335–1343.
- 94. Lwin Z, Broom A, Sibbritt D, Francis K, Karapetis CS, Karikios D, Harrup R, The Australian medical oncologist workforce survey: The profile and challenges of medical oncology. Seminars in Oncology. 2018:45(5-6):284-290.
- 95. Ma RCW. Epidemiology of diabetes and diabetic complications in China. Diabetologia. 2018;61(6):1249-1260.
- 96. Ma RCW. Correction to: Epidemiology of diabetes and diabetic complications in China. Diabetologia. 2018;61(6):1491.
- 97. Mahon KL, Qu W, Lin HM, Spielman C, Cain D, Jacobs C, Stockler MR, Higano CS, de Bono JS, Chi KN, Clark SJ, Horvath LG. Serum free methylated glutathione s-transferase 1 DNA levels, survival, and response to docetaxel in metastatic. castration-resistant prostate cancer Post hoc analyses of data from a phase 3 trial. European Urology. 2018. 10.1016/j.eururo.2018.11.001
- 98. Man J, Ritchie G, Links M, Lord S, Lee CK. Treatment-related toxicities of immune checkpoint inhibitors in advanced cancers: A meta-analysis. Asia-Pacific Journal of Clinical Oncology 2018;14(3):141-152.
- 99. Marinovich ML, Hunter KE, Macaskill P, Houssami N. Breast cancer screening using tomosynthesis or mammography: A meta-analysis of cancer detection and recall. Journal of the National Cancer Institute, 2018:110(9):942-949.

100. Marschner IC, Schou IM. Underestimation of treatment effects in sequentially monitored clinical trials that did not stop early for benefit. Statistical Methods in Medical Research.

- 2018:962280218795320. 101. Martin SS, Giugliano RP, Murphy SA, Wasserman SM, Stein EA, Ceska R, Lopez-Miranda J, Georgiev B, Lorenzatti AJ, Tikkanen MJ, Sever PS, Keech AC, Pedersen TR, Sabatine MS. Comparison of low-density lipoprotein cholesterol assessment by Martin/Hopkins estimation. Friedewald estimation. and preparative ultracentrifugation: Insights from the FOURIER trial. JAMA Cardiology. 2018;3(8):749-753.
- 102. Martin A, Ghadge A, Manzoni P, Lui K. Brown R. Tarnow-Mordi W. Group LCS. Protocol for the lactoferrin infant feeding trial (LIFT): A randomised trial of adding lactoferrin to the feeds of very-low birthweight babies prior to hospital discharge. BMJ Open. 2018;8(10):e023044.
- 103. Mazza D. Lin X. Walter FM. Young JM, Barnes DJ, Mitchell P, Brijnath B, Martin A. Emery JD. The LEAD study protocol: A mixed-method cohort study evaluating the lung cancer diagnostic and pre-treatment pathways of patients from culturally and linguistically diverse (CALD) backgrounds compared to patients from Anglo-Australian backgrounds, BMC Cancer, 2018;18(1):754.
- 104. McAuley SA. de Bock MI. Sundararaian V, Lee MH, Paldus B, Ambler GR, Bach LA, Burt MG, Cameron FJ. Clarke PM, Cohen ND, Colman PG, Davis EA, Fairchild JM, Hendrieckx C, Holmes-Walker DJ, Horsburgh JC, Jenkins AJ, Kaye J, Keech AC, King BR. Kumareswaran K. Macisaac RJ. McCallum RW, Nicholas JA, Sims C, Speight J, Stranks SN, Trawley S, Ward GM, Vogrin S, Jones TW, O'Neal DN. Effect of 6 months of hybrid closed-loop insulin delivery in adults with Type 1 diabetes: A randomised controlled trial protocol, BMI Open 2018;8(6):e020274.
- 105. McGrath RT, Glastras SJ, Scott ES, Hocking SL, Fulcher GR. Outcomes for women with gestational diabetes treated with metformin: A retrospective, case-control study.

Journal of Clinical Medicine. 2018;7(3). 106. McKinnon RA. Cook M. Liauw W. Marabani M, Marschner IC, Packer NH, Prins JB. Biosimilarity and interchangeability: Principles and evidence: A systematic review. BioDrugs. 2018;32(1):27-52. 107. Mercieca-Bebber R, Calvert M, Kyte D, Stockler M, King MT. The administration of patient-reported outcome questionnaires in cancer trials: Interviews with trial coordinators regarding their roles, experiences, challenges and training. Contemporary Clinical Trials Communications. 2018:9:23-32. 108. Mercieca-Bebber R, Williams D, Tait MA, Roydhouse J, Busija L, Sundaram CS, Wilson M, Langford A, Rutherford C, Roberts N, King M, Vodicka E, Devine B. International Society for Quality of Life R. Trials with patient-reported outcomes registered on the Australian New Zealand Clinical Trials Registry (ANZCTR). Quality of Life Research. 2018;27(10):2581-2591.

- Research. 2018;27(10):2593. 110. Mercieca-Bebber R. King MT. Calvert
- 111. Mersiades AJ, Tognela A, Haber PS, Stockler M. Lintzeris N. Simes J.

C. Kirby AC. Morton RL. Fox P. Clarke S, Briscoe K, Aghmesheh M, Wong N, Walsh A, Hahn C, Grimison P. Oral cannabinoid-rich THC/CBD cannabis extract for secondary prevention of chemotherapy-induced nausea and vomiting: A study protocol for a pilot and definitive randomised double-blind placebo-controlled trial (CANNABISCINV). BMJ Open. 2018:8(9):e020745.

109. Mercieca-Bebber R, Williams D, Tait MA, Roydhouse J, Busija L, Sundaram CS, Wilson M, Langford A, Rutherford C, Roberts N, King M, Vodicka E, Devine B, International Society for Quality of Life R. Correction to: Trials with patient-reported outcomes registered on the Australian New Zealand Clinical Trials Registry (ANZCTR). Quality of Life

MJ. Stockler MR. Friedlander M. The importance of patient-reported outcomes in clinical trials and strategies for future optimisation. Patient-Related *Outcome Measures*. 2018;9:353–367. McGregor I, Olver I, Allsop DJ, Gedye

112. Moloney M, Faulkner D, Link E, Rischin

D, Solomon B, Lim AM, Zalcberg JR, Jefford M. Michael M. Feasibility of 5-fluorouracil pharmacokinetic monitoring using the my-5FU PCM system in a quaternary oncology centre. Cancer Chemotherapy and Pharmacology. 2018;82(5):865-876.

- 113. Monaghan PJ, Robinson S, Rajdl D, Bossuyt PMM, Sandberg S, St John A, O'Kane M, Lennartz L, Roddiger R, Lord SJ, Cobbaert CM, Horvath AR. Practical guide for identifying unmet clinical needs for biomarkers. Electronic Journal of the International Federation of Clinical Chemistry and Laboratory Medicine, 2018:29(2):129-137.
- 114. Mooi JK, Wirapati P, Asher R, Lee CK, Savas P, Price TJ, Townsend A, Hardingham J. Buchanan D. Williams D. Tejpar S, Mariadason JM, Tebbutt NC. The prognostic impact of consensus molecular subtypes (CMS) and its predictive effects for bevacizumab benefit in metastatic colorectal cancer: Molecular analysis of the AGITG MAX clinical trial. Annals of Oncology. 2018;29(11):2240-2246.
- 115. Morton RL. Schlackow I. Grav A. Emberson J, Herrington W, Staplin N, Reith C, Howard K, Landray MJ, Cass A, Baigent C, Mihaylova B, Group SC. Impact of CKD on household income. Kidney International Reports. 2018;3(3):610-618.
- 116. Moth EB, Kiely BE, Naganathan V, Martin A, Blinman P. How do oncologists make decisions about chemotherapy for their older patients with cancer? A survey of Australian oncologists. Supportive Care in Cancer. 2018;26(2):451-460.
- 117. Muderis MA, Lu W, Glatt V, Tetsworth K. Two-stage osseointegrated reconstruction of posttraumatic unilateral transfemoral amputees. Military Medicine. 2018;183(suppl\_1):496-502.
- 118. Mullins RJ, Turner PJ, Barnes EH Campbell DE. Allergic gastroenteritis hospital admission time trends in Australia and New Zealand, Journal of Paediatrics and Child Health. 2018:54(4):398-400.
- 119. Mullins RJ, Wainstein BK, Barnes EH, Campbell DE. Angioedema in Australia: Hospital admission rates and fatalities, 2000–2013. Medical Journal of

Australia, 2018:208(7):308.

- 120. Mundra PA, Barlow CK, Nestel PJ, Barnes EH, Kirby A, Thompson P, Sullivan DR, Alshehry ZH, Mellett NA, Huynh K, Javawardana KS. Giles C. McConville MJ, Zoungas S, Hillis GS, Chalmers J, Woodward M, Wong G, Kingwell BA, Simes J. Tonkin AM. Meikle PJ. LIPID Study Investigators. Large-scale plasma lipidomic profiling identifies lipids that predict cardiovascular events in secondary prevention. JCI Insight. 2018:3(17).
- 121. Myran DT, Morton R, Biggs BA, Veldhuijzen I, Castelli F, Tran A, Staub LP, Agbata E, Rahman P, Pareek M, Noori T. Pottie K. The effectiveness and cost-effectiveness of screening for and vaccination against hepatitis b virus among migrants in the EU/EEA: A systematic review. International Journal of Environmental Research and Public Health. 2018;15(9).
- 122. Nov JM. Lu H. Hogg PJ. Yang JL. Stenzel M. Direct polymerisation of the arsenic drug penao to obtain nanoparticles with high thiol-reactivity and anti-cancer efficiency. Bioconjugate Chemistry. 2018:29(2):546-558
- 123. Obermair A, Janda M, Gebski V. Allcause death in young women with endometrial cancer who receive progesterone therapy. American Journal of Obstetrics and Gynecology. 2018:219(1):119.
- 124. O'Brien K, Robson K, Bracht M, Cruz M, Lui K, Alvaro R, da Silva O, Monterrosa L, Narvey M, Ng E, Soraisham A, Ye XY, Mirea L, Tarnow-Mordi W, Lee SK, Family Integrated Care Study Group, Family Integrated Care Parent Advisory Board. Effectiveness of family integrated care in neonatal intensive care units on infant and parent outcomes: A multicentre, multinational, cluster-randomised controlled trial. Lancet Child and Adolescent Health. 2018;2(4):245-254.
- 125. O'Brien K. Lui K. Tarnow-Mordi W. Lee SK. Breastfeeding data in the family integrated care trial. Lancet Child and Adolescent Health. 2018;2(4):e5.
- 126. Ow LL, Subramaniam N, Kamisan Atan I, Friedman T, Martin A, Dietz HP. Should genital hiatus/perineal body be measured at rest or on Valsalva? Female Pelvic Medicine and Reconstructive Surgery, 2018, doi: 10.1097/ SPV.0000000000000608

- 127. Pasalic L, Wing-Lun E, Lau JK, Campbell H, Pennings GJ, Lau E, Connor D, Liang HP. Muller D. Kritharides L. Hogg PJ. Chen VM. Novel assay demonstrates that coronary artery disease patients have heightened procoagulant platelet response. Journal of Thrombosis and Haemostasis. 2018;16(6):1198-1210. 128. Passam F, Chiu J, Ju L, Pijning A, Jahan
- Z. Mor-Cohen R. Yeheskel A. Kolsek K, Tharichen L, Aponte-Santamaria C, Grater F, Hogg PJ. Mechano-redox control of integrin de-adhesion. Elife. 2018:7.
- 129. Pijning AE, Chiu J, Yeo RX, Wong JWH, Hogg PJ. Identification of allosteric disulfides from labile bonds in x-ray structures. Royal Society Open Science. 2018:5(2):171058.
- 130. Popat H, Robledo KP, Sebastian L, Evans N, Gill A, Kluckow M, Sinhal S, Waal K, Tarnow-Mordi W, Osborn D. Interobserver agreement and image quality of functional cardiac ultrasound measures used in a randomised trial of delayed cord clamping in preterm infants. Archives of Disease in Childhood Fetal and Neonatal Edition. 2018:103(3):F257-F263.
- 131. Pottie K, Lotfi T, Kilzar L, Howeiss P, Rizk N, Akl EA, Dias S, Biggs BA, Christensen R, Rahman P, Magwood O, Tran A, Rowbotham N. Pharris A. Noori T. Pareek M, Morton R. The effectiveness and cost-effectiveness of screening for HIV in migrants in the EU/EEA: A systematic review. International Journal of Environmental Research and Public Health, 2018:15(8).
- 132. Price TJ, Tang M, Gibbs P, Haller DG, Peeters M, Arnold D, Segelov E, Roy A, Tebbutt N, Pavlakis N, Karapetis C, Burge M, Shapiro J. Targeted therapy for metastatic colorectal cancer. Expert Review of Anticancer Therapy. 2018;18(10):991-1006.
- 133. Quist-Nelson J, de Ruigh AA, Seidler AL, van der Ham DP, Willekes C, Berghella V, Paikrt E. Patterson J. Espinoza D. Morris J. Mol B. Askie L. Pre-term Premature Rupture of Membranes Meta-analysis C. Immediate delivery compared with expectant management in late preterm prelabor rupture of membranes: An individual participant data metaanalysis. Obstetrics and Gynecology. 2018;131(2):269-279.
- 134. Rakhimova GN, Alimova NU, Rvaboshtan A. Waldman B. Ogle GD. Ismailov SI.

Epidemiological data of Type 1 diabetes mellitus in children in Uzbekistan, 1998–2014. Pediatric Diabetes. 2018:19(1):158-165.

- 135. Ralph AP, de Dassel JL, Kirby A, Read C, Mitchell AG, Maguire GP, Currie BJ, Bailie RS, Johnston V, Carapetis JR. Improving delivery of secondary prophylaxis for rheumatic heart disease in a high-burden setting: Outcome of a stepped-wedge, community, randomised trial. Journal of the American Heart Association. 2018;7(14).
- 136. Ramirez PT, Frumovitz M, Pareja R, Lopez A, Vieira M, Ribeiro R, Buda A, Yan X, Shuzhong Y, Chetty N, Isla D, Tamura M. Zhu T. Robledo KP. Gebski V. Asher R, Behan V, Nicklin JL, Coleman RL. Obermair A. Minimally invasive versus abdominal radical hysterectomy for cervical cancer. New England Journal of Medicine. 2018;379(20):1895-1904.
- 137. Ranger A, Dunlop A, Hutchinson K, Convery H, Maclennan MK, Chantler H, Twyman N, Rose C, McQuaid D, Amos RA. Griffin C. deSouza NM. Donovan F. Harris E, Coles CE, Kirby A. A dosimetric comparison of breast radiotherapy techniques to treat locoregional lymph nodes including the internal mammary chain. Clinical Oncology. 2018;30(6):346-353.
- 138. Rankin NM, Lai M, Miller D, Beale P, Spigelman A, Prest G, Turley K, Simes J. Cancer multidisciplinary team meetings in practice: Results from a multi-institutional quantitative survey and implications for policy change. Asia-Pacific Journal of Clinical Oncology. 2018;14(1):74-83.
- 139. Read RL, Madronio CM, Cust AE, Goumas C, Watts CG, Menzies S, Curtin AM, Mann G, Thompson JF, Morton RL. Follow-up recommendations after diagnosis of primary cutaneous melanoma: A population-based study in New South Wales. Australia. Annals of Surgical Oncology. 2018;25(3):617-625.
- 140. Ritchie G, Gasper H, Man J, Lord S, Marschner I, Friedlander M, Lee CK. Defining the most appropriate primary end point in phase 2 trials of immune checkpoint inhibitors for advanced solid cancers: A systematic review and meta-analysis. JAMA Oncology. 2018:4(4):522-528.
- 141. Roncolato FT, Berton-Rigaud D, O'Connell R. Lancelev A. Sehouli J. Buizen L. Okamoto A. Aotani E. Lorusso

D, Donnellan P, Oza A, Avall-Lundqvist E, Berek J, Hilpert F, Ledermann JA, Kaminsky MC. Stockler MR. King MT, Friedlander M. Validation of the modified Glasgow prognostic score (MGPS) in recurrent ovarian cancer (ROC) — analysis of patients enrolled in the GCIG Symptom Benefit Study (SBS). Gynecologic Oncology. 2018;148(1):36-41.

- 142. Sabatine MS, De Ferrari GM, Giugliano RP, Huber K, Lewis BS. Ferreira J. Kuder JF, Murphy SA, Wiviott SD, Kurtz CE, Honarpour N, Keech AC, Sever PS, Pedersen TR. Clinical benefit of evolocumab by severity and extent of coronary artery disease. Circulation. 2018;138(8):756-766.
- 143. Scott ES, McGrath RT, Januszewski AS, Fulcher GR, Jenkins AJ. Short-term glucose variability in adults with Type 1 diabetes does not differ between insulin pump and multiple daily injection users — a masked continuous glucose monitoring study in clinical practice. Diabetes and Metabolism, 2018.
- 144. Seidler AL, Askie L, Ray JG. Optimal aspirin dosing for pre-eclampsia prevention. American Journal of Obstetrics and Gynecology. 2018;219(1):117-118.
- 145. Seidler AL, Hegewald J, Schubert M, Weihofen VM, Wagner M, Droge P, Swart E, Zeeb H, Seidler A. The effect of aircraft, road, and railway traffic noise on stroke - results of a case-control study based on secondary data. Noise Health. 2018;20(95):152-161.
- 146. Sellars M, Clayton JM, Morton RL, Luckett T, Silvester W, Spencer L, Pollock CA, Walker RG, Kerr PG, Tong A. An interview study of patient and caregiver perspectives on advance care planning in ESRD. American Journal of Kidnev Diseases. 2018:71(2):216-224.
- 147. Shapiro JD, Thavaneswaran S, Underhill CR, Robledo KP, Karapetis CS, Day FL. Nott LM. Jefford M. Chantrill LA, Pavlakis N, Tebbutt NC, Price TJ, Khasraw M, Van Hazel GA, Waring PM, Teipar S, Simes J, Gebski VJ, Desai J, Segelov E. Cetuximab alone or with irinotecan for resistant kras-, nras-, braf- and pik3ca-wild-type metastatic colorectal cancer: The AGITG randomised phase II ICECREAM study. Clinical Colorectal Cancer. 2018:17(4):313-319.
- 148. Simes J. Robledo KP. White HD. Espinoza 155. Tan ML. Manski-Nankervis JA.

D, Stewart RA, Sullivan DR, Zeller T, Hague W, Nestel PJ, Glasziou PP, Keech AC. Elliott I. Blankenberg S. Tonkin AM, LIPID Study Investigators. D-dimer predicts long-term cause-specific mortality, cardiovascular events, and cancer in patients with stable coronary heart disease. Circulation. 2018;138(7):712-723. 149. Sioquist KM. Lord SJ. Friedlander ML. John Simes R, Marschner IC, Lee CK. Progression-free survival as a surrogate endpoint for overall survival in modern ovarian cancer trials: A meta-analysis. Therapeutic Advances in Medical Oncology. 2018;10:1758835918788500. 150. Smit AK, Newson AJ, Morton RL, Kimlin M, Keogh L, Law MH, Kirk J, Dobbinson S, Kanetsky PA, Fenton G, Allen M, Butow P, Dunlop K, Trevena L, Lo S, Savard J. Dawkins H. Wordsworth S. Jenkins M, Mann GJ, Cust AE. The melanoma genomics managing your risk study: A protocol for a randomised controlled trial evaluating the impact of personal genomic risk information on skin cancer prevention behaviours Contemporary Clinical Trials. 2018;70:106-116. 151. Smit AK. Newson AJ. Best M. Badcock CA, Butow PN, Kirk J, Dunlop K, Fenton G, Cust AE. Distress, uncertainty,

and positive experiences associated with receiving information on personal genomic risk of melanoma. European Journal of Human Genetics. 2018:26(8):1094-1100.

152. Smith AB, Rutherford C, Butow P, Olver I, Luckett T, Grimison P, Toner G, Stockler M, King M. A systematic review of quantitative observational studies investigating psychological distress in testicular cancer survivors. Psycho-Oncology. 2018;27(4):1129-1137. 153. Stockler MR. Pooled RCTs: Reanalysis accounting for screening intensity suggests that screening reduces prostate cancer mortality. Annals of Internal Medicine, 2018:168(2):JC5. 154. Synnot A, Bragge P, Lowe D, Nunn JS, O'Sullivan M. Horvat L. Tong A. Kay D. Ghersi D, McDonald S, Poole N, Bourke N, Lannin N, Vadasz D, Oliver S, Carey K, Hill SJ. Research priorities in health communication and participation: International survey of consumers and other stakeholders. BMJ Open. 2018:8(5):e019481.

Thuraisingam S, Jenkins A, O'Neal D, Furler J. Socioeconomic status and time in glucose target range in people with Type 2 diabetes: A baseline analysis of THE GP-OSMOTIC study. BMC Endocrine Disorders. 2018;18(1):47.

- 156. Tang M, Price TJ, Shapiro J, Gibbs P, Haller DG, Arnold D, Peeters M, Segelov E, Roy A, Tebbutt N, Pavlakis N. Karapetis C. Burge M. Adjuvant therapy for resected colon cancer 2017, including the idea analysis. Expert Review of Anticancer Therapy. 2018:18(4):339-349.
- 157. Tarnow-Mordi W, Morris J, Kirby A, Robledo K, Askie L, Brown R, Evans N, Finlayson S, Fogarty M, Gebski V, Ghadge A, Hague W, Isaacs D, Jeffery M, Keech A, Kluckow M, Popat H, Sebastian L, Aagaard K, Belfort M, Pammi M. Abdel-Latif M. Revnolds G. Ariff S, Sheikh L, Chen Y, Colditz P, Liley H, Pritchard M, de Luca D, de Waal K, Forder P, Duley L, El-Naggar W, Gill A, Newnham J, Simmer K, Groom K, Weston P. Gullam J. Patel H. Koh G. Lui K, Marlow N, Morris S, Sehgal A, Wallace E, Soll R, Young L, Sweet D, Walker S, Watkins A, Wright I, Osborn D, Simes J, Australian Placental Transfusion Study. Delayed versus immediate cord clamping in pre-term infants editorial comment. Obstetrical and Gynecological Survey. 2018;73(5):265-266.
- 158. Thamrin V. Saugstad OD. Tarnow-Mordi W, Wang YA, Lui K, Wright IM, De Waal K, Travadi J, Smyth JP, Craven P, McMullan R, Coates E, Ward M, Mishra P. See KC. Cheah IGS. Lim CT. Choo YM, Kamar AA, Cheah FC, Masoud A, Oei JL. Pre-term infant outcomes after randomisation to initial resuscitation with FIO2 0.21 or 1.0. Journal of Pediatrics. 2018:201:55-61 e51.
- 159. Than MP, Pickering JW, Dryden JM, Lord SJ, Aitken SA, Aldous SJ, Allan KE, Ardagh MW, Bonning JWN, Callender R, Chapman LRE, Christiansen JP, Cromhout APJ, Cullen L, Deelv JM, Devlin GP, Ferrier KA, Florkowski CM, Frampton CMA, George PM, Hamilton GJ, Jaffe AS, Kerr AJ, Larkin GL, Makower RM. Matthews TJE, Parsonage WA, Peacock WF, Peckler BF, van Pelt NC, Poynton L, Richards AM, Scott AG, Simmonds MB, Smyth D, Thomas OP, To ACY, Du Toit SA, Troughton RW, Yates KM. Icare-ACS Implementation Group. Icare-ACS (Improving care processes

for patients with suspected Acute Coronary Syndrome): A study of cross-system implementation of a national clinical pathway. *Circulation*. 2018;137(4):354–363.

- 160. Thavaneswaran S, Sebastian L, Ballinger M, Best M, Hess D, Lee CK, Sjoquist KM, Hague WE, Butow PN, Simes RJ, Thomas D. Cancer molecular screening and therapeutics (MOST): A framework for multiple, parallel signal-seeking studies of targeted therapies for rare and neglected cancers. *Medical Journal* of Australia. 2018:209(8):354–355.
- 161. Tonkin RS, Bowles C, Perera CJ, Keating BA, Makker PGS, Duffy SS, Lees JG, Tran C, Don AS, Fath T, Liu L, O'Carroll SJ, Nicholson LFB, Green CR, Gorrie C, Moalem-Taylor G. Attenuation of mechanical pain hypersensitivity by treatment with peptide5, a connexin-43 mimetic peptide, involves inhibition of nlrp3 inflammasome in nerveinjured mice. *Experimental Neurology*. 2018;300:1–12.
- 162. Tran AD, Fogarty G, Nowak AK, Espinoza D, Rowbotham N, Stockler MR, Morton RL. A systematic review and meta-analysis of utility estimates in melanoma. *British Journal of Dermatology.* 2018;178(2):384–393.
- 163. Turner N, Lim XY, Toop HD, Osborne B, Brandon AE, Taylor EN, Fiveash CE, Govindaraju H, Teo JD, McEwen HP, Couttas TA, Butler SM, Das A, Kowalski GM, Bruce CR, Hoehn KL, Fath T, Schmitz-Peiffer C, Cooney GJ, Montgomery MK, Morris JC, Don AS. A selective inhibitor of ceramide synthase 1 reveals a novel role in fat metabolism. *Nature Communications*. 2018:9(1):3165.
- 164. Vandermeer B, van der Tweel I, Jansen-van der Weide MC, Weinreich SS, Contopoulos-Ioannidis DG, Bassler D, Fernandes RM, Askie L, Saloojee H, Baiardi P, Ellenberg SS, van der Lee JH. Comparison of nuisance parameters in paediatric versus adult randomised trials: A meta-epidemiologic empirical evaluation. BMC Medical Research Methodology. 2018;18(1):7.
- 165. Vincent FB, Kandane-Rathnayake R, Hoi AY, Slavin L, Godsell JD, Kitching AR, Harris J, Nelson CL, Jenkins AJ,

Chrysostomou A, Hibbs ML, Kerr PG, Rischmueller M, Mackay F, Morand EF. Urinary B-cell-activating factor of the tumour necrosis factor family (BAFF) in systemic lupus erythematosus. *Lupus*. 2018;27(13):2029–2040.

- 166. Waldman B, Ansquer JC, Sullivan DR, Jenkins AJ, McGill N, Buizen L, Davis TME, Best JD, Li L, Feher MD, Foucher C, Kesaniemi YA, Flack J, d'Emden MC, Scott RS, Hedley J, Gebski V, Keech AC, investigators F. Effect of fenofibrate on uric acid and gout in Type 2 diabetes: A post hoc analysis of the randomised, controlled FIELD study. Lancet Diabetes and Endocrinology. 2018;6(4):310–318.
- 167. Walker RC, Morton RL, Palmer SC, Marshall MR, Tong A, Howard K. A discrete choice study of patient preferences for dialysis modalities. *Clinical Journal of the American Society of Nephrology*. 2018;13(1):100–108.
  168. Wang M, Chua SC, Bouhadir L, Treadwell
- EL, Gibbs E, McGee TM. Point-of-care measurement of foetal blood lactate time to trust a new device. Australian and New Zealand Journal of Obstetrics and Gynaecology. 2018;58(1):72–78.
  169. Wann A, Tully PA, Barnes EH, Lwin
- Z, Jeffree R, Drummond KJ, Gan H, Khasraw M. Outcomes after second surgery for recurrent glioblastoma: A retrospective case-control study. Journal of Neuro-Oncology. 2018;137(2):409– 415.
- 170. Watts CG, Wortley S, Norris S, Menzies SW, Guitera P, Askie L, Mann GJ, Morton RL, Cust AE. A national budget impact analysis of a specialised surveillance programme for individuals at very high risk of melanoma in Australia. Applied Health Economics and Health Policy. 2018;16(2):235–242.
- 171. Willeit P, Ridker PM, Nestel PJ, Simes J, Tonkin AM, Pedersen TR, Schwartz GG, Olsson AG, Colhoun HM, Kronenberg F, Drechsler C, Wanner C, Mora S, Lesogor A, Tsimikas S. Baseline and on-statin treatment lipoprotein(a) levels for prediction of cardiovascular events: Individual patient data meta-analysis of statin outcome trials. *Lancet*. 2018:392(10155):1311–1320
- 172. Wilson A, Vento M, Shah PS, Saugstad O, Finer N, Rich W, Morton RL, Rabi Y,

Tarnow-Mordi W, Suzuki K, Wright IM, Oei JL. A review of international clinical practice guidelines for the use of oxygen in the delivery room resuscitation of pre-term infants. *Acta Paediatrica*. 2018;107(1):20–27.

- 173. Wilson MK, Mercieca-Bebber R, Friedlander M. A practical guide to understanding, using and including patient-reported outcomes in clinical trials in ovarian cancer. Journal of Gynecologic Oncology. 2018;29(5):e81.
- 174. Wilson MK, Friedlander ML, Joly F, Oza AM. A systematic review of health-related quality of life reporting in ovarian cancer phase III clinical trials: Room to improve. *Oncologist.* 2018;23(2):203–213.
- 175. Wittert G, Atlantis E, Allan C, Bracken K, Conway A, Daniel M, Gebski V, Grossmann M, Hague W, Handelsman DJ, Inder W, Jenkins A, Keech A, McLachlan R, Robledo K, Stuckey B, Yeap BB. Testosterone therapy to prevent Type 2 diabetes mellitus in at-risk men (T4DM): Design and implementation of a double-blind randomised controlled trial. *Diabetes, Obesity and Metabolism.* 2018. doi: 10.1111/dom.13601
- 176. Yap S, Goldsbury D, Yap ML, Yuill S, Rankin N, Weber M, Canfell K, O'Connell DL. Patterns of care and emergency presentations for people with non-small cell lung cancer in New South Wales, Australia: A population-based study. Lung Cancer. 2018;122:171–179.
- 177. Yardi S, Caldwell PH, Barnes EH, Scott KM. Determining parents' patterns of behaviour when searching for online information on their child's health. *Journal of Paediatrics and Child Health.* 2018;54(11):1246–1254.
- 178. Zhang AY, Judson I, Benson C, Wunder JS, Ray-Coquard I, Grimer RJ, Quek R, Wong E, Miah AB, Ferguson PC, Dufresne A, Teh JYH, Stockler M, Tattersall MHN. Author correction: Chemotherapy with radiotherapy influences time-to-development of radiation-induced sarcomas: A multicentre study. *British Journal of Cancer.* 2018;118(12):1682.

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