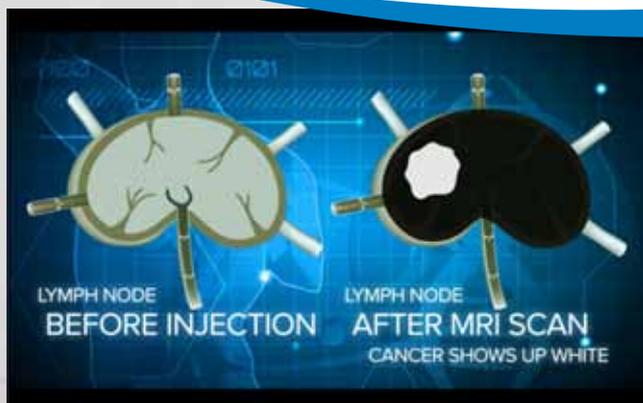


Research Update



Breakthrough MRI lymph node cancer research launched

In a ground-breaking international study, researchers at the Wesley-St. Andrew's Research Institute (WSARI) are launching a trial into a new MRI technique that could for the first time accurately identify cancerous lymph nodes.

While MRI can pinpoint cancer in major organs, specialists have had less success identifying lymph nodes to where cancer cells may have spread.

The new "Nano" MRI technique to be trialled on prostate cancer patients involves injecting small iron particles into the bloodstream. When an MRI is performed 24 hours later cancerous lymph nodes light up white while normal lymph nodes show up black on the MRI image.

The research is a partnership between WSARI researchers, urologists Dr Les Thompson (pictured above) and Dr Morgan Pokorny, radiologists, Dr Nick Brown, Dr David Wong and Dr Darren Ault, together with Professor Jelle Barentsz and his team from the Radboud University Nijmegen Medical Center, in the Netherlands.

A \$1.5million fundraising drive for the project was launched at the Wesley-St. Andrew's Research Institute's 21st anniversary gala evening in Brisbane on Saturday May 23.

"Advances in MRI technology and other treatments are significant

in fighting cancer, but frequently healthy lymph nodes are removed while cancerous ones are spared because we haven't had the images to detect the difference," said Dr Thompson.

The MAGNIFI trial, to be conducted on high-risk prostate cancer patients at The Wesley Hospital, will be launched later this year. The research will compare the current best practice approach to prostate cancer screening – known as the PSMAGa68 PET scan – with the new Nano-MR technique, as well as analysing the pathology of the lymph nodes.

The current guidelines for prostate cancer treatment in high-risk patients are to remove both the prostate and lymph nodes. All trial patients will undergo both Nano MRI and PSMAGa68 PET scans, as well as lymph node removal which will be done robotically.

"We already know that the majority of lymph nodes removed during prostate cancer operations are not cancerous. We are not certain of the accuracy of lymph node imaging and this study aims to find this out," Dr Thompson said.

"We now have anatomical (the Nano MRI) and functional (PET scan) imaging for lymph nodes and we'll be able to find out which is the best way to image cancer in the lymph nodes.

"We expect this will avoid some unnecessary operations on the lymph nodes in future and hopefully, accurate diagnosis and treatment may prevent recurrences of cancer.

"We are starting the work with prostate cancer but we can extend it to other areas like breast, melanoma and head and neck cancer."

Complications from lymph node removal include a risk of developing an infection and a build-up of fluid in the legs and arms which often need long-term treatment.

Dr Thompson said the research was commencing with prostate cancer because of the success

of past research collaborations with Netherlands-based Professor Barentsz.

In 2013, a clinical trial conducted by the Australian and Dutch researchers found that Professor Barentsz's multi-parametric MRI technique significantly improved diagnosis of life-threatening prostate cancer while reducing over-diagnosis of non-life-threatening cases.

The two-year study published in the journal *European Urology* found that use of multi-parametric MRI (mpMRI) reduced the number of men needing prostate biopsies by 51% and reduced the problem of over-diagnosis of non-life threatening disease by about 90%.

"Our past work has significantly changed the diagnostic techniques of prostate cancer and reduced the number of cases requiring biopsies.

(Continued over)

More research funding is desperately needed before this project can commence. Make a donation towards this project today, visit:

www.wesleyresearch.com.au/donate

From the
CEO



Welcome to the Winter edition of Research Update.

The Institute continues to make a difference to both current and future cancer care by investigating new methods to diagnose, treat and improve quality of life for cancer sufferers.

For example, WSARI researcher A/Prof James Nicklin and his team are investigating ovarian cancer and the impact of chemo resistance on treatment. Dr Ian Dickinson and his team are currently evaluating adolescents with sarcoma (bone cancer) throughout their treatment process, to determine the psychological impacts and quality of life outcomes in these young survivors.

We also announced our latest prostate cancer research at the Institute's 21st Birthday Gala Evening on 23 May: Lymph Node Imaging in Prostate Cancer (more project information can be found on the cover of this newsletter).

I would like to express my utmost thanks to all who attended the Gala and to those who have generously kick-started the funding required to commence this prostate cancer project. A total of \$1.5 million dollars is required to fund this research and we cannot achieve this without your help.

Please support WSARI's cancer research today at www.wesleyresearch.org.au/donate

Professor Christian Gericke, CEO

(Cover story continued)

The multi-parametric MRI solved a significant problem, now we are tackling the next frontier: the lymph nodes."

Professor Christian Gericke, CEO and Director of Research of the WSARI, said the research was an example of 21 years of research leadership.

"The Wesley-St. Andrew's Research Institute has become a leader in clinical research, helping patients through improved diagnosis methods, new treatment options and increased quality of life post-treatment for many conditions. We are hoping to raise significant support for this important new research."

Free community health talks

This second in our series of Health Talks for 2015 was held on Wednesday 10 June. Post-Doctoral Research Fellow at WSARI, Dr Tamara Street, presented 'Txt 4 Health'.

Modern technological devices such as mobile telephones are omnipresent in our society. These devices are often blamed for increases in poor lifestyle behaviours including physical inactivity and poor nutritional consumption.

Tamara shared how her team are using mobile telephone text-messaging technology to empower workers in Queensland to achieve positive lifestyle behaviour changes.

Come along to our next Free Health Talk on Wednesday 15 July.

Light refreshments will be served before the talk and there will be sufficient time to ask questions afterwards.

The Health Talk is open to everyone, but pre-registration is essential due to limited seating.

Time: 10.30am to 12.30pm
(Registration & refreshments
10.30am to 11.00am)

Where: Wesley-St. Andrew's Research Institute
Level 8, East Wing, The Wesley Hospital
451 Coronation Drive
Auchenflower QLD 4066

Register: Email rsvp@wesleyresearch.com.au
or phone 3721 1742 and leave your
contact details.

SAVE THE DATE:
2015 HEALTH TALKS

Wed 15 July

Wed 26 August

Wed 23 September

Wed 11 November

Event series sponsor:



The 2015 Gala Evening was a wonderful vote of confidence in the Wesley-St. Andrew's Research Institute.

The clinicians and scientists whose work defines the Institute can take the Gala as a massive endorsement of their high quality research. The congratulations of the Prime Minister, confirmed by the presence and financial support of so many people, should inspire our researcher clinicians and scientists to continue to extend the boundaries of medical science.

The Gala has helped us to attract a wider circle of people. It gave us an opportunity to showcase the achievements and aspirations of our researchers. We must now build on the generosity of the night towards the Institute, generosity that in particular has taken the prostate to lymph node cancer imaging project a long way towards being fully funded.

Despite the wonderful support of the Gala guests, the lymph node project needs more funding to ensure it will proceed.

Many men are benefiting from the success of the prostate cancer imaging research. Previously undetected cancers are being discovered earlier. Their unnecessary pain and suffering is being avoided. Their medical costs are being reduced.

We also need to develop ways to fund ourselves. What a landmark it was at the Gala to be able to announce the establishment of an Australia-New Zealand centre to train doctors in the latest prostate cancer imaging.

Your continuing donations and the development of the Institute's own revenue generating initiatives will enable our researchers to improve the health and well-being of people everywhere.

Peter Allen, Chairman

From the
Chairman



Investigating kallikrein 7 enzyme in treatment for ovarian cancer

Ovarian cancer is a silent killer on the rise with approximately 1,680 new cases predicted in 2020. 75% of patients are diagnosed at a late stage when tumours have spread in the abdominal cavity, making surgery a very difficult treatment option.

Patients are then treated with chemotherapy, which only leads to an approximate 30% five-year survival rate as the ovarian cancer cells develop resistance to the chemotherapy, allowing for the recurrence of the tumour and leading to death of patients.

Previous research has led to the discovery of kallikrein (KLK)7 enzyme which increases the spreading and chemo resistance of ovarian cancer cells via an inflammatory pathway.

WSARI researcher and gynaecologic oncologist A/Prof James Nicklin, in collaboration with Dr Ying Dong, D/Prof Judith Clements and A/Prof Jonathan Harris, hope to investigate whether KLK7 blockade can inhibit the spread of ovarian cancer and improve cell response to chemotherapy.

Results of this study will determine the potential of KLK7 inhibition as a therapeutic adjuvant and its possibilities of becoming part of a regimen with ovarian cancer chemo-agent carboplatin/Taxol.

Inflammatory blockers will also be tested for preventing cell aggregation to find more effective anti-cancer treatment and better patient outcomes.

This is a proposed project which requires urgent funding to enable this to happen. If you would like to support this research, visit: www.wesleyresearch.org.au/donate or contact Rod Knapp on 07 3721 1510.



Improving outcomes for adolescent and young adult cancer survivors

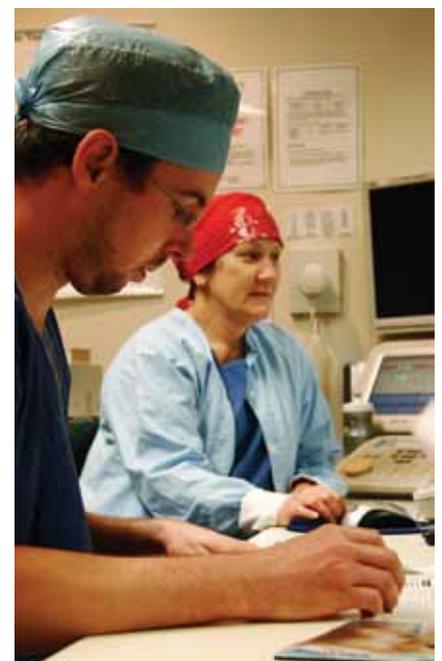
With most cancer survivors reporting acceptable outcomes after treatments, surgery and recovery, a significant proportion of cancer survivors will experience ongoing disability, increased psychological disorder and a reduced quality of life.

Given the impacts and outcomes of surviving cancer, little is known about the long-term effects of adolescent and young adult cancer survivors, even when this age range is often associated with a range of particularly challenging cancers.

A team of WSARI researchers, led by Dr Ian Dickinson from the The Wesley Hospital, explored various factors and moderators, such as social support, health competency beliefs, treatment experiences and adaptive coping, that influence the psychological and quality of life outcomes in adolescent and young adult cancer survivors.

This project examined adolescents and young adults diagnosed with bone sarcoma between the ages 10-25 who received surgical intervention for cancer.

Results are expected to evaluate possible moderators, perceived needs during medical intervention and identify modifiable factors for predicting better outcomes specific to adolescent and young adult cancer survivors.



The 21st Birthday Gala Evening launches fundraising for lymph node imaging in prostate cancer project

More than 600 friends and supporters of The Wesley-St. Andrew's Research Institute attended the unforgettable 21st Birthday Gala Evening on 23 May at Brisbane City Hall.

Including two major pre-committed contributions, the Gala evening raised a grand total of \$613,478 of the \$1.5M needed to fund the new Lymph Node Imaging in Prostate Cancer project.

The Institute was proud to host the Prime Minister, The Hon Tony Abbott, MP, as the guest of honour and WSARI Chief Patron Prof Jelle Barentsz, Radiologist from Radboud University in the Netherlands, who astonished guests during his awe-inspiring speech outlining the lymph node imaging in prostate cancer project.

WSARI Chairman Peter Allen urged guests to dig deep in support of this new research project, assisted by auctioneer Peter Vamvakaris who implored guests to generously support this ground-breaking research throughout the auction.

Channel 9 journalist Katherine Feeney kindly donated her time and talent to host the Gala, while guests enjoyed a night of fine food, dancing and entertainment by the Queensland Youth Orchestra Jazz Quintet in King George Square and special performances by Darren Percival throughout the evening.

The event was proudly sponsored by Commonwealth Private. A number of companies and individuals generously supported the event through donation of services, auction and raffle prizes including: North Star Cruises Australia (True North Luxury Adventure Cruises), Lawrence Daws, The Henschke Family, Monili Jewellers, Burberry, Mitchell Ogilvie, Dr Paul Eliadis, Maserati, Wineaway, Gambaro Hotel, The Euro and 1889 Enoteca, Indooroopilly Shopping Centre, Bang and Olufsen, Surfers Paradise Marriot Resort and Spa, Gold Coast Adventure, Queensland Ballet, Hilton Brisbane, Warner Brothers, Esquire Male Grooming, Australia Zoo, Lone Pine Koala Sanctuary, Aussie World, Event Cinema, Flour and Chocolate Patisserie.

Special thanks also to Bravo Productions (Derek Lancashire and Brett Cruice) for their significant donation of AV services leading up to and during the event, and to David McGarry, Bettina MacAulay, Bronwyn Hogan, Aung Lynn, Meg Dahiya (The Luxury Network) and Channel 9 for their generosity and support for this event.

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Donating to medical research before June 30

As we are fast approaching the end of the financial year, it is important to consider what eligible tax planning initiatives may be available to you or your business. There are a number of tax planning initiatives available to assist with managing or reducing tax. Some of these initiatives are set out below:

- Payment of work-related expenses including eligible self-education materials and courses, before 30 June 2015;
- Prepayment of margin loan interest or interest on other business related loans;
- Repairs to your rental property;
- In some cases, personal superannuation contributions can be tax deductible (subject to caps and limitations);
- Salary sacrifice arrangements including salary sacrificed superannuation contributions;
- Under the current legislation, for small business entities (turnover of less than \$2 million), immediate deductions may be available for assets purchased for less than \$1,000.
- Other assets acquired for more than \$1,000 must be depreciated over time, however depreciation is also tax deductible if the asset is installed and ready for use before 30 June;
- For employers, payment of superannuation guarantee amounts for employees before 30 June.

Another tax planning initiative is making donations to eligible deductible gift recipients. To maximise the tax benefit of making a donation this financial year, it is important that the recipient has been endorsed as a deductible gift recipient, such as The Wesley-St. Andrew's Research Institute.

Some of these strategies will take time to understand, plan and implement. To stay ahead of the 30 June deadline, make sure you contact your accountant or please feel free to contact the team at McGarry Partners, to find out how we can help you to get the most out of this financial year.

While every effort has been made to provide valuable, useful information in this publication, this firm and any related suppliers or associated companies accept no responsibility or any form of liability from reliance upon or use of its contents. Any suggestions should be considered carefully within your own particular circumstances, as they are intended as general information only. Liability limited by a scheme approved under Professional Standards legislation.



www.mcgarrypartners.com.au

Photos from The 21st Birthday Gala Evening



Channel 9's Katherine Feeney as MC, dressed by Carla Zampatti and Indoороopilly Shopping Centre



Guests seated in the Main Auditorium, Brisbane City Hall



CEO Prof Christian Gericke presented an overview of the Institute's research to guests



From left: WSARI Chairman Peter Allen, with Prime Minister The Hon Tony Abbott, MP and Wesley Hospital Urologist Dr Les Thompson



Prof Jelle Barentsz (left) with Prime Minister The Hon Tony Abbott, MP



Darren Percival and his band entertaining guests on the dance floor



PARTICIPANTS REQUIRED

Do you have trouble 'popping' your ears?

A study is currently being conducted on Eustachian Tube Dysfunction and requires healthy individuals to act as study participants in a hyperbaric chamber.

Participants need to be available for three afternoon sessions over a 3 week period at The Wesley-St. Andrew's Research Institute in Auchenflower, Brisbane.

Reimbursement for your time is available.

Study Requirements

- History of Rhinitis (Hay fever) & difficulty 'popping' ears, otherwise healthy
- Average weight
- Aged 18 years or older
- Not claustrophobic

For more information please contact Tracy Grierson or Helen Woodhouse on 07 3721 1523

Clayfield College sets a new record

Students at Clayfield College have broken their own fundraising record again with a donation of \$1915.05 to fund breast cancer research at the Institute.

For a third year in a row, students have staged a Pink Accessories Day at the College to support the Institute, and the annual fundraiser has grown from \$370 in 2013, to \$1074 in 2014, to a new record in 2015.

Prof Christian Gericke said "The Institute is very grateful for the interest and enthusiasm that Ms Samantha Knott and her student group have shown in our research work. It is encouraging to see young Australians practising philanthropy in their school years."

Leaving a Bequest to The Wesley-St. Andrew's Research Institute

The Institute is committed to conducting world-class medical research that delivers improved diagnostics, more effective treatments and greater quality of life for patients who have suffered illness or injury.

As a not-for-profit organisation, we rely on the generosity of donations to fund critical research programs and facilities to better serve the community.

By including a bequest to The Wesley-St. Andrew's Research Institute in your Will, you are leaving a tangible gift to future generations.

Visit www.wesleyresearch.org.au/support/bequest for more information.

Donate securely online at
www.wesleyresearch.org.au/donate

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