

SCT Newsletter



End of year 2015

Hello and welcome to the end of year newsletter for 2015. On behalf of the SCT I would like to wish all our members a happy holiday period and a prosperous new year. The 'year of the case study' was a success and I have been able to include many member written articles in the last year. I would love to build on this for next year so why not make it a new year's resolution to send me a case study in 2016.

The current SCT council

- Fiona Riddell, Chairperson (ACH)
- Renelle French (ACH)
- Belinda Bennett, Treasurer + Secretary (ACH)
- Gary Zealand, Newsletter Editor (HBY)
- Gay Noyer, Webmaster (ACH)
- Mirimia Gideona, Education Co-ordinator (MMH)
- Karen Harvey, South Island Representative (CHC)
- Vikki D'Ath, (Midcentral DHB)
- Megan Tomlins (Southland DHB)

The council's activities in 2015 were varied with continued work on a position statement for E.C.G. application, the move to online exams for the CCP and CPM exams, Transferring to a paperless SCT office with the use of dropbox and increasing our fellowships for the CSANZ meetings to \$1000 within New Zealand and \$2000 for the international meeting.

I'm sure 2016 will also be a busy year as the SCT endeavours to be more involved in workforce planning, will continue to review and update our constitution, plan the symposium for the CSANZ meeting in Rotorua and tackle any other challenges as they arise. Should any members have any professional concerns contact us and we will do what we can to assist you.

A Report on CSANZ Conference 2015 Melbourne, Australia by Celestina Chang.

Firstly, I would like to thank the Society of Cardiopulmonary Technology for funding my attendance at the 63rd Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, from 13-17 August 2015 at the Melbourne Exhibition and Convention Centre.



There were many interesting presentations of which I have chosen several to highlight:

The Arrhythmia Stream

There was a great emphasis on how studies on basic molecular and genetic science may be translated to the clinical setting, specifically gene therapy for Cardiac Inherited Diseases (CID). The RT Hall Lecture: Inherited Arrhythmias – from genes to genetic therapy was given by Dr Silvia Pirori from the University of Pavia, IRCCS Fondazione Maugeri, Italy and New York University. Dr Pirori presented on the experimental work done so far to find a cure for Catecholaminergic Polymorphic Ventricular Tachycardia (CPVT). CPVT can result from abnormalities in two genes: RyR2 and CASQ2. The gene of interest, CASQ2 was chosen due to its smaller size compared to RyR2 and it is responsible for the expression of Calsequestrin, a protein channel in the sarcoplasmic reticulum (SR) that binds calcium ions. A gene knock-out mouse was bred and a carrier vector, the Adenovirus Associated Virus 9 (AAV9) acted as a vehicle to transport a healthy copy of the CASQ2 gene into the mouse via an injection. The results of this study showed that there was a 40-50% rate of infection of the AAV9-CASQ2, there was localisation of the gene in the nucleus, an increase in Calsequestrin expression was seen and ultrastructural abnormalities in the T-tubular SR were fixed. This study was deemed relatively successful with positive long term electric effects. Future studies on larger animal models more similar to human electrophysiology may be undertaken. A limitation to gene therapy may be the cost of AAV9 production which is currently at \$1million per patient.

One of the Ralph Reader Prize finalists, Dr Rajeev Kumar Pathak presented the Aggressive Risk factor REduction STudy: Implications for the substrate for Atrial Fibrillation (ARREST-AF Substrate Study) which involved putting PAF patients through aggressive risk modification and weight management including exercising 3-4 times a week up to 200bpm, a strict planned diet, CPAP for those with sleep apnoea, anti-arrhythmic drug therapy – the results at follow up showed reduced AF frequency, duration, symptom and symptom severity in risk modification group vs control group.



There was also a lively debate on whether high level athletes should be screened for Sudden Cardiac Death risk by Dr Chris Semsarian (for) and Dr Andre La Gerche (against). There was no clear winner but the take home message was that there should be more awareness raised around SCD, more education on how to use Advisory External Defibrillators (AEDs) which also should be made more readily available in the community and the advice and message we give patients at risk – to avoid physical activity altogether which may do more harm or to carry on with moderation and supervision.



What's Hot?

There was a new concluding segment this year at the last session of the conference which saw a panel of representatives from each stream who presented what was “hot” in their areas of expertise. This was a nice way of providing everyone with an overview of the entire conference. Dr Clara Chow presented on wearable e-health products including those which provide heart rate trends, blood pressure reading, ECG tracings obtained from two panels attached to a smart phone – the questions raised were if these findings were acceptable and reproducible, where or who should these information be submitted to and what of follow ups or sustainability.

In the imaging world, there were presentations about using robots and computational models to do cardiac measurements, compute therapy options and predict the effects of the therapy, and also using Echocardiography combined with 3-D printers to produce whole heart models and the production of holograms.

The latest in arrhythmia and EP included the latest studies on AF and the effects of multiple risk modification, implantable loop-recorders for identifying and monitoring AF, the subcutaneous ICD experience in New Zealand, the latest development in implanting leadless pacemakers in the RV apex and the relatively new HRS guideline which states that there is Class 1a evidence for home monitoring for all patients with implanted cardiac devices.

In conclusion, it was a very educational meeting with just the right balance of local and international speakers and studies. I have come away with a new found appreciation for the scientific and research work being done to improve the diagnosis and treatment of cardiac patients.

SCT AGM 2015 Minutes

Date: 28th October 2015

Venue: Video conferencing

Opened: 08:05

Present at ACH: Fiona Riddell, Liane Dawson, Kara Edwards, Catriona Tilsley, Kelly Reynish, Marina Fowler, Belinda Bennett, Pauline Borst, Catherine Middlemiss, Christine Shanahan, Diane Owens, Lindsey-Rose Topp, Halina Hinds, Paran Ramanathan, Simon Mummery, Sara Mckenzie

MMH: Margaret Oldfield, Talia Brown, Motofoua Motofoua, Mark Antonio, Craig Smith, Sonam Lal

SOUTHLAND: Lisa Wilson

CHRISTCHURCH: Jennifer Inglis, Karen Harvey, Sarah Webby, Jude Greenslade, Sharron Matthewson, Delia Calian, Natalie Barrell

TAURANGA: Michelle Bayles

APOLOGIES: Miriama Gideona, Faith Mclean, Angela Morgan, Renelle French, Ellen Woodcock

Meeting Chair: Fiona Riddell

Previous Minutes:

Minutes correct. Nominated by Catriona Tilsley, seconded by Marina Fowler.

Matters Arising from Previous Minutes:

Nil

Chairperson's Report:

This was presented by Fiona Riddell and is attached. Thank you to all council members for their work and participation in the 2014-2015 council.

Report accepted: nominated by Chrisine Shanahan and seconded by Liane Dawson.

Education Committee.

This was presented by Christine Shanahan and is attached.

Report accepted: nominated by Belinda Bennett, seconded by Sara Mckenzie.

Treasurer's Report:

This was presented by Belinda Bennett and is attached.

Auditors report accepted as a true record for the 2014-2015 tax period.

Report accepted: nominated by Kelly Reynish, seconded by Paran Ramanathan

Recommendation from Treasurer: Annual subscriptions should stay at \$50.

Nominated by Fiona Riddell, seconded by Kara Edwards.

Recommendation from Treasurer: Use the chartered accountant Ivy O'Leary and Associates as the SCT financial auditor. Nominated by Catriona Tilsley, seconded by Marina Fowler.

Professional Development Group.

This was presented by Michelle Bayles and is attached.

Report accepted: nominated by Karen Harvey seconded by Christine Shanahan.

General Business:

Suggestion from Kara Edwards (ACH) that any tender processes for new equipment should be included in the Continuing Professional Development (CPD) points. Fiona Riddell will put this idea forward to the CPRB.

Question from Marina Fowler (ACH), what are the SCT doing with their excess funds? Fiona Riddell explained that the funding for NZ CSANZ fellowships have been increased from \$500 to \$1000. International CSANZ fellowships have also been increased from \$1000 to \$2000.

Meeting closed: 0835.

SCT Chairpersons Report for SCT AGM 28/10/15

Fiona Riddell Chairperson SCT

SCT Council/Working Groups 2014/2015

SCT Council

- Fiona Riddell, Chairperson (ACH)
 - Renelle French, Treasurer (ACH)
 - Belinda Bennett Treasurer (ACH)
 - Gary Zealand, Newsletter Editor (HBY)
 - Catriona Pearson, Secretary (ACH)
 - Mirimia Gideona, Education Co-ordinator (MMH)
 - Karen Harvey, South Island Representative (CHC)
 - Vikki D'Ath, (WEL)
 - Megan Tomlins (Southland DHB)
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- Education Committee, Chairperson Christine Shanahan, ACH.
 - Professional Development Group, Chairperson Michelle Bayles, Tauranga Hospital.

Work of the Council

- Monthly meetings via phone conference
- Discussing and processing membership applications
- Discussing and processing CPM/CCP applications
- Organising CSANZ meeting in conjunction with meeting organising committee
- Reviewing and setting policies
- Distributing fellowships
- Monthly newsletter
- Liaising with the Education Committee, Professional Group and Registration Board.

SCT Fellowships

- Applicants need to have had ≥ 1 year work experience to be eligible.
 - \$500 Fellowships to attend NZ CSANZ meeting
 - \$1,000 Fellowships to attend Australian CSANZ meeting

2014/15 Fellowship Recipients

- CSANZ Auckland June 2015:
 - Gay Noyer
 - Jacalin Sutherland
 - Jenni Stratford
 - Susan Brady
- CSANZ Australia August 2015
 - Celestina Chang

CSANZ Meetings

- Auckland CSANZ meeting June 2015
 - Successful SCT Cardiac Technology meeting
 - Business meeting following
 - No training meeting due to limited available program time

- CSANZ meeting in Rotorua 23rd - 25th June 2016
 - SCT Cardiac Technology meeting to be held Thursday morning
 - Theme of our meeting is to be decided.
 - Plan for a Business meeting to follow (all SCT members welcome)
 - Fellowship applications will be available
 - Members should consider applying for CSANZ Affiliate Fellowships for meeting attendance also (need to be a CSANZ member or membership pending).

SCT Achievements

- Continue to provide appropriate practical certification for Cardiac Physiology Technicians and Cardiac Physiologists.
- Continue to adapt both certification courses to meet technology changes and as a result of feedback
- The Education Committee and the Professional Development Group are strong forums in which detail and policy can be discussed openly and honestly. The Chairpersons will present a report from these committees.
- Thank you to the old Council
 - Particular thanks to the superb forward thinking and organisational skills of Belinda Bennett and Catriona Tilsley.
 - Both have put in considerable effort to change the methods of Council accounts and record keeping.
 - Resulting workload efficiencies of the Secretary and Treasurer positions will allow these Council positions to be performed by staff employed at other DHBs.
 - We are sad to see Catriona step down from the Council.
- Thank you to the members of the Education Committee and the Professional Development Group
- All feedback welcome

Education Committee Update SCT AGM 2015

Christine Shanahan

Meetings

- Current committee members:
 - Christine Shanahan (Akld)
 - Angela Morgan (Wgtn)
 - Ian McLeod (Tauranga)
 - Miriama Gideona (Middlemore, Akld)
 - Ellen Woodcock (ChCh)
 - Amanda or Graham (Otago Uni representative)

- Two meetings held each year following exams
 - June 18th
 - November – scheduled for the 19th

Accreditation

Current accredited sites:

- Auckland
- Middlemore hospital
- North Shore hospital
- Waikato
- Wellington
- Taranaki
- Tauranga
- Nelson
- Christchurch
- Dunedin
- Southland

Exams

CPM

- 5 students enrolled in 2015 for full course
- All students have successfully completed their assignment work
- All students passed the block weekend practical audit
- Three students required a resit of the block weekend theory audit – all successfully passed the resit.
- exam scheduled for Nov 11th

CCP

- November 2014 = 3 students / 2 passes (66%)
 - Included 1 CCP exam resit from June 2014
- June 2015 = 7 students / 6 passes (86%)
 - Included 1 exam resit from November 2014
 - This was the first CCP online exam format
- November 2015 = 4 scheduled to sit / 3 students sitting
 - Includes the resit from June 2015
 - One student required a training extension til June 2016
- 2016 Numbers
 - 3 scheduled for June and 5 scheduled for November

New / Ongoing developments

- The online exams were held for the first time in June 2015 with the exam running very smoothly. Only one student commented on a slow connection, however I believe this was a hospital internet issue. Most students completed the exam in 1 hour with plenty of time for review. 87% successful pass rate.
- CPM course to be reviewed: Assignments have been updated throughout the year by Mia.

Treasurer's Report

on the financial position of the Society of Cardiopulmonary Technology(NZ) Inc as at 31 March 2015

Presented at the AGM on 28 October 2015 by Belinda Bennett

Activities

The last twelve months have been 'business as usual' with no substantial changes in either income or expenses. I will go through the financial accounts shortly.

We completed our second year using Xero as the accounting package. The software is easy to use and enables the Treasurer to quickly and easily complete the required transactions.

All registered charities must now submit an annual report to Charities Services instead of the Registrar of Incorporated Societies. This is submitted by 30 September each year and so has been completed for this year.

Financials

Our total worth at the end of the financial year was \$129,895 which represents an increase of \$12,712 compared with the end of the previous financial year. This was achieved through a combination of an increase in income and a reduction in costs.

Income

Income increased nearly \$4,000 between the last two financial years. The bulk of this was due to the number of students. Currently there are five CPM students who are due to complete their studies at the end of the year, five CCP students due to complete this year and a further five CCP due to complete next year. So, a total of 15 students currently enrolled. We also received an additional \$600 in subscriptions this year representing a net increase of 12 members.

Expenses

Total Operating Expenses or costs reduced \$1600 last year compared with the previous year. The largest items of expenditure were:

- Accountancy fees – these were more than double the previous year as the accountant set up our new accounting system, Xero, and did quite a lot of work in Xero to get things up and running.
- CSANZ Fellowship – one Fellowship was awarded this year
- Honoraria, which are paid for the marking of CPM assignments and for the costs associated with the CPM block weekend held in August each year. These came to \$3,782 this year which is about \$900 less than last year.
- Professional Development Group meetings cost \$2,500 not including the travel component compared with \$841 in the previous year.
- Software Fees. This is a new expense category as we now pay a monthly fee of \$43.70 for the use of Xero. This adds up to \$524 annually. We also paid \$575 for Xero to be set up last year. This is a one-off expense.
- National travel which is travel to Education Committee meetings, Professional Development Group Meetings and for the winning MTEX student to attend

CSANZ. It was at a similar level to the previous year. This came to just over \$4,000 for the year.

Overall, our net profit was \$12,700 which was \$5,000 more than the previous year.

Assets

The laptop computer that was bought in September 2007 has been fully depreciated.

There were \$1,500 of outstanding invoices waiting to be paid as at 31 March. Two of these were for \$50 each for subscriptions. One was a \$600 invoice to Tauranga Hospital and the last was an \$850 invoice to a CCP student. These have all since been paid.

Liabilities

The Society did not have any Liabilities on the books at the end of the financial year.

Recommendation

Given that we are able to operate with sufficient funds to run the organization on a day-to-day basis without dipping into our cash reserves, I recommend that the annual subscription remain at \$50.

Are there any questions?

Belinda Bennett

Treasurer

The Society of Cardiopulmonary Technology (NZ) Inc.

Professional Development Group Report for SCT AGM 2015

Michelle Bayles

- I am Michelle Bayles the Team Leader from Tauranga Hospital and I have been elected the Chairperson for the Development Group. This is my first term and I am pleased to have this role and hope that I can follow in the great footsteps of Sharron Denekamp from Christchurch
- As a group we continue to invite Charge Physiologists from secondary hospitals along to our meetings. Those invited must be members of SCT. So far we have had Liane Dawson from North Shore, Jenni Tang from Palmerston North, and Jenni Hardiman from New Plymouth, Belinda Buckley Middlemore and next week Angela Geary from Hutt Valley . The Professional Development Group has proven to be a support to Charge Physiologists –and those new within the role. The group supports those with all the complications and responsibilities dealt with day to day. Please continue to use the members of the group for professional advice.

- HWNZ plans to work towards a more generic Scientific and Technical undergraduate degree. Angela Morgan from Wellington working within this group met with the board and there has been a suggested model and funding agreed. How will it work with our DHBS? We will await a response. HWFNZ current plans can be found on their website. At present there is nothing more to update. Angela will feed back at the next meeting wellington next week.
- There has also been discussion that the Diploma in Respiratory Science will no longer be on the curriculum at Charles Sturt Australia. Sharron informed Peter Larson of the change.
- Discussions with Sharron regarding HRS have initiated a steering group lead by physiologists- Sharron Christchurch –Sheryl Tauranga and Susan from Auckland. to assist in the utilisation of funding resources appropriately and fairly for educational meetings. Discussions will take place on the development of a course and ideas on how that process is to be set up. Fellowships will be open to nursing staff. But criteria will be set for those who wish to go forward to the meetings. Sharron is happy for anyone with ideas on set programmes for future meetings.
- We spent some time discussing the CPD points and it has been agreed that 150 points are to be collected over a 3 year period. Any discrepancies regarding those working out of smaller centres should take their queries to the board. I had been trialling an e-portfolio – in use by the Midland nursing group. It is a very useful and easy way to manage our relevant documents etc. % of the team submitted our evidence through the portfolio pathway. Jennifer Youard and Belinda Buckley reviewed the documentation. It was a challenge regarding the data pathways as this was the first time for submission. It is a useful way for and audit. Discussion for its future purpose will be met and discussed next week.
- CCP online exam pilot took place this year and the first successful online exam took place in June. Ian McLeod from Tauranga hospital worked alongside Christine Shanahan to develop the exam. The feedback was very positive. The second exam is scheduled for Nov 2105
- The CSANZ meeting for 2016 will be in Rotorua at the Conference and Exhibition Centre. The topic/title for the meeting is 'surfing the waves of change' and the SCT topic is innovation. The SCT will meet on the Thursday and have been allocated from 10am-12.30pm for meetings. Suggestions from Fiona on content re paediatric invasive tests.
- APEX discussions re the following –Advance practice- merit progression- Workforce parity and relativity. Sharron and Lisa kept us up to date with further developments.
- Angela Morgan to remain part of the group to represent CPRB and the SCT education committee.
- Our next meeting is 3rd November 2015 Peter Larson has accepted his invitation and so has Angela Geary from Hutt Valley.