

The AUSTRALIAN AND NEW ZEALAND COLLEGE *of* PERFUSIONISTS GAZETTE

NOVEMBER 2021

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1. Donelli A, Jansen JRC, Hoeksel B, et al. Performance of a real-time dirotic notch detection and prediction algorithm in arrhythmic human aortic pressure signals. *J Clin Monit.* 2002;17(3-4):181-185. Study sponsored by Teleflex.

The
AUSTRALIAN AND NEW ZEALAND COLLEGE
of PERFUSIONISTS **GAZETTE**

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FROM THE EDITOR

Kieron C Potger CCP, FANZCP

Dear Members, I hope that this issue finds you well.

The upheaval the whole world has been going through would have undoubtedly impacted on us all — both personally and professionally. Since the last issue in April, COVID-19 ECMOs have surged in our region.

The recent COVID-19 ECMO webinar was notable by the attendance of most of our members – over 80 in fact. This interest highlights the essential role we play in ECMO management, and the communities need for our skills and knowledge during this pandemic crises. Any thoughts of divesting ourselves from this role in the past should now be laid to rest, as these events serve as a reminder that our unique role puts us in a leadership position when helping these patients. I anticipate that both our education and job descriptions to further reflect this into the future.

Whilst on this topic, forty-two days on ECMO! And this patient visits the unit later to thank the staff. What greater attestation of the care and dedication given by the team at Westmead Hospital to a COVID-19 pneumonitis patient. Be inspired by Ray Miraziz's article.

Of even greater existential threat is global heating, but the lacklustre commitments of the world at Cop26 in Glasgow should not excuse us from doing our bit. Carla Zazulak shows how we can embrace recycling within our departments – something every unit should now be seriously undertaking.

In this edition we have reprinted two recently published articles written by our members from the journal 'Perfusion'. This is an opportunity to showcase their high quality scientific work, international acclaim and celebrate their achievements.

Up-and-coming perfusionist Nicole Shrimpton's (and colleagues) – from Queensland Children's Hospital in Queensland – elegant article demonstrates the applied haematological principles in diagnosing, monitoring and

treating a child with a coagulation abnormality during cardiopulmonary bypass.

Rona Steel (and colleague), a long-time resident perfusionist from Westmead Hospital in western Sydney, presents her survey of priming solutions used for CPB. What is impressive is her remarkable 100% response rate from the 63 cardiac units she approached across Australia.

A big doff of my hat to Annette Mazzone – achieving the lofty heights of a PhD. Her article gives an overview of her challenges and tribulations, but shows that it can be done. This is an amazing achievement but hopefully will inspire others to follow in her steps.

I was taught that to quickly assess the function of the oxygenator it was 'black blood in, red blood out'. But this may not be always the case – as Nicola Walton-Hughes intriguing case study attests. What am I talking about? Read it for yourself.

And Casey Edwards shows the need for a comprehensive pre bypass assessment to customise a patient focused perfusion practice to optimise care.

We would like members to know of the sad passing of one of the pioneers in the field of Perfusion – Jeff Riley. He certainly deserves a moment of reflection as he was one of the leaders in arguably the world's largest perfusion organisation, who had close links to Australia and New Zealand.

As this issue was going to press, our new President – Carla Zazulak – was being inaugurated. There is no doubt that the College will be remain in competent and experienced hands – congratulations Carla!

Finally, I would like to thank our corporate supporters for their continuing support of our Gazette. Maybe when you next see a company representative, tell them that you saw their advert in the Gazette!

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Casey Edwards – Secretary
Adriano Luongo – Autotransfusion
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Alex Peterson, Patrick O'Neill,
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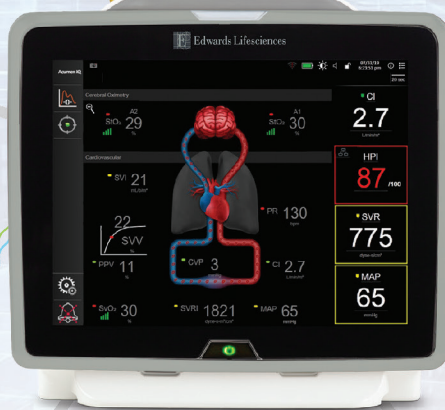
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PRESIDENT'S REPORT

Rob Baker PhD, CCP, FANZP

Dear Friends and Colleagues,

In what has been a tumultuous 2021, hot on the heels of an unprecedented 2020, our perfusion community has never been so important.

As health professionals we are used to facing challenges and making difficult decisions. I have seen our community pull together in response to the Delta strain to navigate these uncharted waters: thank you for everything you have all done in the last year to support and keep both our patients, our colleagues, and our families safe from a virus about which we are still learning and have learned we simply cannot predict. We recently held our second COVID-19 webinar and those of you who were able to attend gained valuable insight into what our colleagues especially in Victoria and New South Wales have been working through. The webinar was chaired by Jessica Cantrick and Carla Zazulak and was a valuable and timely success for which we thank them both. We would like to thank all the speakers who gave up their time, especially Vincent Pellegrino, Richard Totaro, Paul Forrest, Ray Miraziz, Mark Ambrose and Alison Horton, and the nearly 80 members who participated.

With COVID so much on our community mind, and the overarching shared goal of safety in mind, it was a very difficult decision to postpone the Inaugural 3SCTS Meeting to 16th–19th November 2022. All the hard work of scientific planning, marketing and logistics have been reworked several times over, with the current outcome being a positive one that retains all the terrific plans and feel of the event in Cairns. The ANZCP appreciates the work the committees contributed. The great news is that it will be significantly more enjoyable when we can all finally meet together again in person. That said we will be holding our College AGM virtually again on 11th November 2021 and the virtual ASM Thursday 25th and Friday 26th November 2021.

Across 2021 the College has continued to develop, with further growth of functionality of our website, with membership and financial system upgrades, with much happening behind the scenes to significantly assist the college moving forward. I wish to highlight Kirri Hogan, who came in as the new Treasurer for the College at our 2020 AGM, and who undertook the immense project of overhauling our financial IT platforms that work with our website and business model to ensure the college functions more efficiently, and the day to day work of our volunteer Executive, Board and our Administrative Officer are all reduced: it has been nothing short of miraculous and the College, and its financial systems, are firmly operating within the current era.

Another new Executive member that has greatly assisted with taking on and running with projects is our Registrar - Britney Westbrook. Never short of enthusiasm Britney has contributed considerably to the Scientific committee of 3SCTS, the planning of future ASM's, developing a sharing platform for protocols and provided valuable support and input to various other Executive functions. This underscores our current generation of up-and-coming perfusionists who are the future of our profession, and we are grateful for their input as volunteers with the College and confident of where the ANZCP is heading. We encourage all to get involved and become a driving force within our industry.

The submission to the Australian Health Ministers' Advisory Council (AHMAC) for nationally consistent scheduled medicines has moved forward albeit slowly given this current health climate, by successfully achieving the support of ANZSCTS and positive feedback from ANZCA, while we await a formal response. This has happened in parallel with the Victorian Drugs, Poisons and Controlled Substances Regulations submission which the ANZCP continues to work on and remains hopeful of advancing in the near future. Once again COVID, as

we all know, is consuming much of the space in government and we need to move forward but also be patient.

The ABCP continues to go from strength to strength under the guidance of Chair Jessica Cantrick. Implementing the Emeritus policy has seen several retired perfusionists recognised with Emeritus status; the Overseas Trained Perfusionist pathway has been immensely successful in its application and continues to build. The new online Autotransfusion course commenced this year and being delivered digitally it continues to have terrific uptake and enrolment figures. We hope to expand upon this success in the near future with further digital content, so watch this space.

Clarke Thuys, who has faithfully served the Board and College for as long as most of us can remember, is passing the baton on to new Board members and is retiring from Board and Executive functions. Clarke has been a stalwart of educating generations of perfusionists and has aided many students throughout the years. His thoughtful, kind demeanour and knowledge has helped countless students. We are indebted to him and thank him for his service.

While we focus on education it is great that we can share with you the recent announcement by the Medical University of South Carolina (MUSC) of the successful progress of their Perfusion Master's degree through the process from the University department, through the University Senate to the State Legislature, where it has been formally approved to begin in 2022. We are looking forward to our first students enrolling next year.

The ANZCP is about to embark on the term of our next President, Carla Zazulak: I think that we could not hope for a better incumbent at this time to lead us through the next few years which unfortunately are going to continue to put up new and novel challenges for our profession. Carla brings substance and enormous experience to the college and will continue building the momentum to further the professional aims of the College on behalf of its members. I will be moving into the role of immediate Past-President and look forward to continuing to serve the College in whatever way that I can. I have enjoyed my period as president immensely, albeit it is with some regret that I will go through my presidency without the honour of hosting a live ASM or AGM.

I do have one request of the membership, as we approach the AGM we need your participation to nominate for the positions that are vacant in the College and Board. I am especially seeking people to consider the role of President-Elect. This is perhaps the most important position within the Executive as it shapes the way we move forward. Carla has been outstanding in this position, and for her to have a successful Presidency she needs a strong and confident member of the College in the President-Elect role – is that you?!

In order to have a great Executive and Board, one needs members who are engaged and inspired and understand how to help. This has been true for those I have been lucky enough to serve with; their passion and drive to instigate positive change have all made a difference and I hope they all share the sense of success of what has been achieved.

It has been an honour to serve you all and I look forward to the future our College brings.

All the best,

Sincerely,



President, Australian & New Zealand College of Perfusion

ABCP REPORT

Jessica Cantrick CCP, FANZCP, ABCP Chair

Dear Colleagues,

What an interesting year we've had. The development of the pandemic has seen many of us stretched more than ever before, or alternatively, a reduction to work due to reduced ICU capacity with only urgent surgeries going ahead. Either way, it has been a testing time for all of us, with a great deal of uncertainty. It has been so heartening to see the support and collaboration throughout the perfusion community, with many colleagues keeping in regular contact to share not only experiences and encouragement, but equipment and staff, ensuring we meet the needs of the communities we serve during these demanding times. I've said it before, but the resilience of the ANZCP community is incredible, we should be so proud of ourselves.

The Board has had a busy year. Eight students have successfully completed their Structured Course in Clinical Perfusion – Congratulations on your efforts over the past two years, your dedication and aptitude has paid off! Clarke Thuys and Ghaz Jabur are working together to deliver the course to the 15 students currently enrolled across Australia, New Zealand and Hong Kong. Ghaz will officially take over as Course Coordinator in November as Clarke retires from his Board position. On behalf of the entire perfusion community, thank you Clarke! We are incredibly grateful for the devotion you have shown to the education and training of our budding perfusionists for over 18 years. Ghaz has big shoes to fill, however, his passion for the education of our trainees is apparent and he will do a great job at seeing our final students through the SCiCP course. A reminder that the last intake for the SCiCP course will be in February 2022, after this time only the Masters course will be offered for perfusion trainees.

The adoption of the Medical University of South Carolina (MUSC) Master of Science in Cardiovascular Perfusion is continuing to progress, with the first cohort due to commence in August 2022. Alex Peterson has been in regular contact with MUSC to negotiate and finalise details. The course intake will occur once a year, as we follow the American teaching schedule. Course entry criteria will soon be available on the College website to guide managers in their trainee recruitment. I am certain we will have a teething issues over the course of the next year or so, but the ABCP is doing everything it can to ensure a seamless transition to the Masters course and will continue to bring information to you as it becomes available. Alex will be addressing the membership at the AGM and will be available to answer any questions.

Under the guidance of Casey Edwards, 2021 has seen the Autotransfusion course undergo a major improvement, now operating on an online platform, making the user experience much more enjoyable and easier to administer. Eighty-two students have enrolled in the Autotransfusion course this year. After the successful

implementation of the new program, Casey is now handing over the Autotransfusion Course Coordinator role to Adriano Luongo from Prince of Wales Hospital, Randwick. Adriano is showing initiative in his new role and is motivated to continue the success and development of the course and other online course offerings in the future.

The Overseas Trained Perfusionist program has recognised the equivalency of 23 perfusionists recognised since its inception. We welcome them and encourage their involvement with the Board and Executive as we value the diversity they bring to our local perfusion community.

Congratulations to Darryl McMillan, Kaye Collins, James Picken, Mike Whitburn and John Dittmer who have received Emeritus status to commemorate their extended service to perfusion. We thank you for your contributions to innovation, training, education and the establishment of various perfusion departments throughout Australia. You should all be very proud of the legacy you have left.

We are unfortunately losing a valuable member of the Board this year, Annette Mazzone, who will be resigning from her secretary position. Annette has showcased a high level of organisation and has been a great contributor to the decision-making processes required of the Board, as well as being highly involved in the SCiCP and OTP exams. From the Board, thank you Annette for your contribution over the past two years, it's been invaluable to have you as part of the team. Casey will be taking over the Secretary role whilst continuing as the student liaison representative. This role will become increasingly important as we transition to the offshore delivery of the course, ensuring our trainees receive valuable support, guidance and connection offered by the Board.

As we approach the end of the year, please keep recertification criteria and your CPD points in mind. If you believe you will have difficulties meeting the minimum criteria for 2021, please contact the Board. We encourage everyone to attend the ANZCP Virtual ASM and claim 20 CPD points. There are many other ways to gain points if you are unable to attend, please refer to the CPD policy.

We look forward to welcoming new members to the Board in November, bringing fresh perspectives, ideas and minds eager to collaborate and work towards our goal of providing quality education to perfusionists throughout Australia and New Zealand.

On behalf of the Board,



Jessica Cantrick

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¹ Bruppacher H, Alam S, LeBlanc V et al: Simulation-based training improves Physicians' Performance in Patient Care in High-Stakes Clinical Setting of Cardiac Surgery, *Anesthesiology* 2010;112:4. "Medical simulation can improve patient safety by producing elevated knowledge, skill and proficiency in device operation and reducing errors in the delivery of healthcare".

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ANZCP VIRTUAL ASM 2021

Britney Westbrook CCP, FANZCP

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So here we are again, a year on from our last virtual ASM, COVID restrictions still in place and our international borders still currently closed. But this is where the negativity stops. Globally over the last year, 96,500,000 trees have been planted, 77 countries have announced full or partial bans on plastic bags, tourists have now resorted to space travel, Reddit investors adopted 3,500 endangered gorillas in 6 days, the first rover touch-down on Mars and smart-phone controlled pacemakers are on trial for the first time. Our College of Perfusion over the last 12 months have produced equally outstanding achievements.

We have captured the essence of these triumphs in our upcoming ANZCP virtual ASM 2021, featuring both international and local speakers. Our first session is on the COVID-19 pandemic. It features two guest speakers, Assistant Professor David Fitzgerald from the Medical University of South Carolina in Charleston, and Rachel Johnson an ICU nurse from Royal Papworth Hospital in London, sharing their perfusion experience on COVID-19. A whole session will be dedicated to the impact and challenges of ECMO retrieval and initiation services provided in Australasia, from the Women's and Children's Hospital in Adelaide, the Royal Children's Hospital in Melbourne and both

Auckland and Waikato Hospitals in New Zealand. We also have a special guest speaker, Dr Nicole Gifford, a clinical psychologist from Auckland, New Zealand, who specialises in Cognitive Behavioural Therapy (CBT) and Acceptance and Commitment Therapy (ACT) principles. The current climate has people experiencing symptoms of fatigue and mental illness more than ever. She will provide us with psychological tools during these unprecedented times to increase our coping mechanisms. Trainees will get the opportunity to break out and get to know one another virtually. The ASM will wrap up with our all-inclusive education session, discussing topics such as MUSC, PIRS and corporate presentations.

The ASM will have interactive questionnaires throughout and a special guest who you do not want to miss. We want to thank all our presenters, moderators, sponsors, and organizers who have contributed to making this virtual ASM a success.

We will be very excited to see you all again in person for 3SCTS 2022, The inaugural Tri-Society Cardiac & Thoracic Symposium in Cairns, for some much-needed human interaction.

Britney Westbrook – on behalf of the Organising & Scientific Committee

PIRS-2 REPORT

Tim Wilcox CCP, LMANZCP

Tena koutou katoa — ‘Hello everyone’

2021 has been a challenging year, more especially for our Australian colleagues where the delta variant has caused significant disruption not only to the workspace, but also to everyday life.

Reports to the Perfusion Improvement Reporting System have remained at a steady rate this year at one to two per month. The PirsList email group to which reports (with permission to publish) are sent, has grown to in excess of 200 subscribers. An increasing number of these are from outside Australia and New Zealand, and PIRS has received an increasing amount of feedback on reports, all of which has been very positive. An innovation this year has been the ability to upload photos and videos to the PIRS-2 submission form. The addition of photographs to further clarify reports is very valuable and we encourage perfusionists to take photos or make a short video where appropriate in order to demonstrate faults or remedial actions.

Interestingly there have been two recent reports of oxygenator changeout which is somewhat unusual. While changeout is last ditch maneuver, and something that we practice for – but hope won't happen – it carries significant risk. One of these recent reports demonstrated the use of the PRONTO technique for

changing out an oxygenator, in essence without coming off cardiopulmonary bypass. The video (link embedded in the report #126 <https://anzcp.org/pirs-ii/pirs-ii-reports/>) and the publication explaining this technique that was attached to this report is highly recommended to be reviewed by perfusionists, and it is strongly recommended this technique is seriously considered to be incorporated into clinical practice.

An upcoming article in AMSECT Today, written by Gary Grist, will reference PIRS-2 and its contribution to perfusion safety. PIRS-2 has had a recent communication from the Netherlands expressing interest in setting up a similar system or partnering with PIRS-2.

As always, we welcome reports of your good catches in near-miss and no harm incidents and encourage you to submit to PIRS-2. While we recognize that near miss incidents are quickly forgotten, the feedback that we get from these reports being published is universally positive and considered an asset to the learning experience to perfusionists worldwide.

Stay safe in these troubled times and look after each other.

Kia kaha — ‘stay strong’

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