



ANZCA
FPM

Global Development Committee

**STRATEGIC PRIORITIES
2023–2027**



**AUSTRALIAN AND NEW ZEALAND
COLLEGE OF ANAESTHETISTS
& FACULTY OF PAIN MEDICINE**

The college acknowledges the Traditional Custodians of Country throughout Australia and recognises their unique cultural and spiritual relationships to the land, waters and seas and their rich contribution to society. We pay our respects to ancestors and Elders past and present, and commit to supporting our Aboriginal and Torres Strait Islander fellows and trainees.

The college acknowledges and respects ngā iwi Māori as the Tangata Whenua of Aotearoa and is committed to upholding the principles of Te Tiriti o Waitangi, fostering the college's relationship with Māori, supporting our Māori fellows and trainees, and striving to improve the health of Māori.

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Introduction

BACKGROUND

ANZCA has a long history of training and education related support initiatives in low-and middle-income countries. Formal educational assistance was first provided by the Faculty of Anaesthetists (Royal Australasian College of Surgeons) in the 1960s through the Australian Government Department of Foreign Affairs and Trade's (DFAT) Colombo Plan. In the early 1990s Professor Garry Phillips became involved in teaching in Papua New Guinea and arranged for registrars from Papua New Guinea to work in posts in Australia. In 2007 an ANZCA Papua New Guinea working party was formed and this group was formalised in 2010 as the ANZCA Overseas Aid Committee.

As language employed in the global health space evolved, the committee felt it beneficial to look for a new contemporary name to better reflect the role and purpose of its work. In 2020 the committee changed its name to the ANZCA Global Development Committee.

Through the Global Development Committee, the college provides support for education, training and development of safety and quality in anaesthesia in the Asia-Pacific region and around the world through scholarships, teaching, workshops, awards, and donations of individuals' time and resources. The committee terms of reference specifically exclude activities that provide direct patient care.

The Global Development Committee works closely with other colleges and societies, particularly the Australian Society of Anaesthetists' (ASA) Overseas Development and Education Committee (ODEC), the World Federation of Societies of Anaesthesiology (WFSA) and the Royal Australasian College of Surgeons' (RACS) Global Health Committee.

The committee comprises the following positions:

- Chair.
- Deputy chair.
- ANZCA president.
- Faculty of Pain Medicine representative.
- Australian Society of Anaesthetists representative.
- New Zealand Society of Anaesthetists representative.
- Essential Pain Management representative.
- World Federation of Societies of Anaesthesiologists representative.
- Society of Anaesthetists of Papua New Guinea representative.
- College member.
- Society for Paediatric Anaesthesia in Australia and New Zealand observer.
- University of PNG (School of Medicine and Health Sciences) observer.

This document details the committee's next five-year strategic priorities through the identification of three overarching areas of strategic focus:

These overarching areas are used to frame the committee's strategic priorities for 2023-2027.

Workforce and capacity building

Partnerships and collaboration

Advocacy and evaluation

To give context to these priorities, this document provides an overview of the broader policy landscape and considerations that informed the development of this plan, as follows:

1. Introduction.
2. Australian and New Zealand foreign aid policy.
3. Global health – surgical and anaesthesia care.
4. Global Development Committee activities.
5. Looking forward – strategic priorities 2023-2027.

REVIEW OF THE 2018–2022 STRATEGIC PRIORITIES

The 2018-2022 strategic priorities outlined ANZCA's ongoing commitment to provide training and education, pulse oximeters (Lifebox), and support and advocacy in Papua New Guinea (PNG). In addition to the ongoing commitment to PNG, the 2018-2022 strategic priorities set out to:

- Increase opportunities for trainees to experience working in a low-or middle-income setting.
- Support WFSA programs.
- Increase the promotion of the committee's work through various avenues including the website, conferences, and seminars.
- Provide further opportunities for colleagues in low-and middle-income countries to attend and have access to education events and resources in Australia and New Zealand.
- Explore broadening training and education support to other Pacific countries.
- Build partnerships with other colleges, professional, government and non-government organisations.
- Evaluate our programs.

Due to the COVID-19 global pandemic, several of the committee's ongoing and planned activities were significantly impacted. However, the limitations on travel for more than half of the five-year period presented new opportunities for partnerships, collaboration, and education and learning modalities.

The committee maintained its support and strong collaborative relationship with PNG through continuous and new activities, one of which included a new position on the Global Development Committee for the Society of Anaesthetists of PNG president and an observer position for a University of PNG (School of Medicine and Health Sciences) representative.

Education support and opportunities to attend conferences were broadened to other Pacific countries through the development of the Pacific Online Learning and Education (POLE) program and support for a Timor-Leste trainee in collaboration with ODEC. The POLE program further enabled relationships to be built across the Pacific, and for an increased number of fellows to become involved in global development through facilitation of twice monthly education sessions on various topics relevant to anaesthesia in the Pacific.

Programs that were put on hold during the pandemic will look to be reinstated in 2023 and will work alongside new programs and partnerships formed during the pandemic and over the past five years, ensuring the committee maintains and continues its support and relationships across the Pacific.

A full review of the 2018-2022 strategic priorities can be found in appendix 1.



Australian and New Zealand foreign aid policy

Due to COVID-19, the needs of Australia's neighbours have changed. In response, the Department of Foreign Affairs and Trade (DFAT) has reshaped Australia's development program to deliver "timely, responsive and effective support in a world defined by COVID-19".¹

The response focuses on three core action areas in Australia's nearest neighbourhood:

1. Health security.
2. Stability.
3. Economic recovery.¹

PNG remains Australia's largest development partner, working together to encourage economic growth, improve governance, and support health and education.²

The most recent New Zealand Aid Programme Strategic Plan is the 2015-2019 plan, which also focuses on the Pacific neighbourhood, with close to 60 per cent of aid directed to the Pacific.

The strategic plan suggests that global reach will be achieved through:

- Targeted aid to developing countries where New Zealand has strategic interests and can achieve impact linked to its core skills.
- Partnerships with selected multilateral organisations.
- Humanitarian action to save lives and alleviate suffering resulting from natural disasters and conflict.

Health is listed as one of New Zealand's aid priorities, specifically reducing the impact of non-communicable diseases, and improving maternal health and child health.³

GLOBAL HEALTH – SURGICAL AND ANAESTHESIA CARE

In addition to COVID-19, there are several emerging and ongoing global health issues throughout Australia and New Zealand's neighbouring regions. In direct relation to anaesthesia, the global burden of disease amenable to surgery is substantial and growing. In 2015, the Lancet Commission on Global Surgery – *Global Surgery 2030: evidence and solutions for achieving health, welfare, and economic development*, developed five key messages stressing the importance of access to safe and affordable surgical and anaesthesia care when needed. These are:

- Five billion people do not have access to safe, affordable surgical and anaesthesia care when needed.
- 143 million additional surgical procedures are needed in low-and middle-income countries (LMIC) each year to save lives and prevent disability (an increase from an estimated 313 million procedures per year).
- 33 million individuals face catastrophic health expenditure due to payment for surgery and anaesthesia care each year (plus another 48 million cases of catastrophic expenditure attributable to non-medical costs).
- Investing in surgical services in LMIC is affordable, saves lives and promotes economic growth.
- Surgery is an “indivisible, indispensable part of healthcare”.⁴

The report furthermore outlined six core indicators for monitoring of universal access to safe, affordable surgical and anaesthesia care when needed.



	Definition	Target
Access to timely essential surgery	Proportion of the population that can access, within two hours, a facility that can do caesarean delivery, laparotomy, and treatment of open fracture (the Bellwether Procedures)	A minimum of 80% coverage of essential surgical and anaesthesia services per country by 2030
Specialist surgical workforce density	Number of specialist surgical, anaesthesia, and obstetric physicians who are working, per 100,000 population	100% of countries with at least 20 surgical, anaesthesia, and obstetric physicians per 100,000 population by 2030
Surgical volume	Procedures done in an operating theatre, per 100,000 population per year	80% of countries by 2020 and 100% of countries by 2030 tracking surgical volume; a minimum of 5000 procedures per 100,000 population by 2030
Perioperative mortality	All-cause death rate before discharge in patients who have undergone a procedure in an operating theatre, divided by the total number of procedures, presented as a percentage	80% of countries by 2020 and 100% of countries by 2030 tracking perioperative mortality; in 2020, assess global data and set national targets for 2030
Protection against impoverishing expenditure	Proportion of households protected against impoverishment from direct out-of-pocket payments for surgical and anaesthesia care	100% protection against impoverishment from out-of-pocket payments for surgical and anaesthesia care by 2030
Protection against catastrophic expenditure	Proportion of households protected against catastrophic expenditure from direct out-of-pocket payments for surgical and anaesthesia care	100% protection against catastrophic expenditure from out-of-pocket payments for surgical and anaesthesia care by 2030

Five billion people lack access to safe, affordable, and effective surgery.⁴

Furthermore, in relation to workforce, the World Health Organization (WHO) estimates a projected shortfall of 15 million health workers by 2030, mostly in low-and lower-middle income countries.⁵

Specific to anaesthesia, in 2015 the World Health Assembly (WHA) made a resolution (WHA 68.15) supporting the strengthening of emergency and essential surgical care and anaesthesia as a component of universal health coverage. The resolution recognised the need to train more anaesthesia and surgical providers to ensure access to safe anaesthesia and surgery. All 194 member states taking part in the WHA committed to the resolution, including Australia and New Zealand.⁶

Given its geographic proximity to Australia and New Zealand, poor health workforce numbers and poorer health outcomes, Asia and the Pacific represent a priority for the college. During 2015-2016 the World Federation of Societies of Anaesthesiologists (WFSA) conducted a global workforce survey. The results show that the majority of Australia and New Zealand's neighbouring countries reported a total physician anaesthesia provider number of less than five per 100,000 population.⁷ Rates for selected Asia-Pacific nations are shown in the table below.

Country	Anaesthesia providers per 100,000 population 2017	Number needed by 2030 (Based on a target of 7 per 100,000 population)
Australia	23.1	N/A
Cambodia	2.9	1090
Cook Islands	4.8	1
Fiji	3.1	62
Kiribati	3.6	5
Micronesia	4.8	5
Mongolia	6.8	207
Nauru	10.0	N/A
New Zealand	21.7	N/A
Papua New Guinea	0.6	523
Samoa	1.6	13
Solomon Islands	0.6	40
Tonga	4.7	5
Tuvalu	18.4	N/A
Vanuatu	1.5	18
Vietnam	1.1	6541

Source: 4, 7

Global Development Committee activities

SCHOLARSHIPS

International scholarship

The ANZCA International Scholarship supports a consultant anaesthetist or pain medicine specialist from a low-or middle-income country to work in a hospital in Australia or New Zealand for up to a year.

The scholarship is designed to increase the recipient's capacity to advance anaesthesia and pain medicine for the benefit of their community. Recipients are potential future leaders in their field and are invited to attend the ANZCA Emerging Leaders Conference.

The committee has offered the international scholarship since 2005. Since then, five scholarships have been awarded to recipients from Papua New Guinea, Fiji, Myanmar, Solomon Islands and Kenya.

Global Development Trainee Scholarship

The Global Development Trainee Scholarship provides up to three final year college trainees with a maximum of \$A4000 each to accompany a visiting team on a short (for example four to eight weeks) educational or teaching visit to a low-or middle-income country. The scholarship aims to foster interest in global development work and allow the recipient to improve their knowledge and understanding of the challenges of providing anaesthesia and pain medicine in low resource environments.

The committee has offered the trainee scholarship since 2012. Since that time 10 scholarships have been awarded, and recipients have participated in educational visits to countries including Vanuatu, Mongolia, Papua New Guinea, Rwanda, Zambia, and China.

Anaesthetic Services scholarship

Established in 1958, Anaesthetic Services Group (Victoria) is an association of anaesthetists working in private practice in Victoria. Since 2013, Anaesthetic Services has generously funded a scholarship for an anaesthetist in a low-or middle-income country to attend a relevant anaesthesia or pain medicine conference.

Administered by the committee, the scholarship is designed to address the lack of continuing professional development opportunities faced by many anaesthetists in low-and middle-income countries and provides an opportunity for the recipient to advance their understanding of anaesthesia and pain medicine for the benefit of their community.

ANAESTHETIC SERVICES SCHOLARSHIP RECIPIENTS

2013 Dr Greg Tokwabilula

(Consultant, Papua New Guinea) attended the ANZCA ASM in Melbourne.



2015 Dr Pauline Wake

(Consultant, Papua New Guinea) attended the ANZCA ASM and the New Fellows Conference in Auckland.



2016 Dr Maria Moguna

(Consultant, Papua New Guinea) attended the World Congress of Anaesthesiology Conference in Hong Kong.



2018 Dr Nancy Kwara

(Consultant, Papua New Guinea) attended the ASA National Scientific Congress in Adelaide.



2014 Dr Mungun Banzar

(Consultant, Mongolia) attended the WFSA 14th Asian Australasian Congress of Anaesthesiology in Auckland.



2015 Dr Oliver Adams

(Consultant, Papua New Guinea) and Dr Alu Kali (Registrar, Papua New Guinea) attended the combined ASA and NZSA National Scientific Congress in Darwin with assistance of additional funding from the ASA and NZSA.



2017 Dr Hilbert Tovirika

(Registrar, Papua New Guinea) attended the ANZCA ASM and the Young Fellows conference in Brisbane.



WORKSHOPS

Essential Pain Management

Essential Pain Management (EPM) is a short, easily deliverable, and cost-effective training program designed to improve pain management worldwide. EPM provides a systematic approach for managing patients in pain and a system for teaching others about pain management. EPM aims to:

- Improve pain knowledge.
- Teach health workers to Recognise, Assess and Treat pain (the “RAT” approach).
- Address pain management barriers.
- Train local health workers to teach EPM.

EPM was developed by ANZCA fellows Dr Wayne Morriss and Associate Professor Roger Goucke in response to a request from colleagues in Papua New Guinea who wanted to support doctors and other health professionals in understanding and providing effective pain management.

Face-to-face EPM workshops have now been delivered in more than 60 countries around the world, with over 13,000 people trained.

EPM goes online

EPM has traditionally been taught face-to-face as a full day workshop, however this hasn't been possible in most parts of the world during the COVID-19 pandemic. The dramatic spread of the virus around the world and subsequent lockdowns and travel restrictions led to a consideration of alternative ways of teaching. While the first online EPM program was developed by Dr Linda Huggins at the University of Auckland in 2014, the need to continue to deliver pain management training in the “COVID-normal” era acted as a catalyst to develop modified training programs that can be delivered online in an effective and engaging manner.

Led by Dr Carolina Haylock-Loor, past president of the Honduran Society for Anaesthesiology, the first virtual EPM workshop “Resuscitation and pain”, was held on 30 May 2020 for 24 medical students from several Latin American countries. Seven Latin American EPM instructors participated in the workshop which lasted five-and-a-half hours. To keep people engaged and stimulated there were several breaks for tea and coffee, stretching, “brain gym” and even some dancing to local Latin American rhythms!

In June 2020, two half-day online EPM workshops were conducted in Da Nang, Vietnam. This was the first time EPM had been facilitated in Da Nang, with previous face-to-face workshops having been held in Hanoi and Ho Chi Minh City. More than 30 healthcare providers from different specialties participated including anaesthetists, oncologists, rehabilitation physicians and anaesthesia nurses.



In August 2020, two half-day online EPM workshops were delivered to 31 doctors and nurses from the Chinese General Hospital and Medical Center in Manila, led by Dr Jocelyn Que, and in January this year a train-the-trainer workshop was held for 17 instructors across Latin America.

In addition to modifying the EPM program to make it more amenable to an online delivery format, we've also been working with Interplast and Praxhub to develop a standalone online interactive version of EPM. Interplast is an Australian-based non-government organisation that is improving health outcomes in the Asia-Pacific region through a range of programs that includes provision of free clinical care (plastic and reconstructive surgery and related services) and the development and delivery of free education to locally-based healthcare professionals. Praxhub is a health-technology company focused on the distribution of education to a global community of healthcare professionals and has been working with Interplast for the past two years to develop and deliver online education for Interplast's partners across the Asia Pacific.

With support from the World Federation of Societies of Anaesthetists (WFSA), the Australian Society of Anaesthetists, the International Association for the Study of Pain and the Northern Hospital, EPM online was launched at the 2021 WFSA World Congress of Anaesthesiologists.

In addition to covering the tools to recognise, assess and treat pain, the EPM online course provides participants with a series of cases using videos to demonstrate the use of EPM in patients with acute trauma and postoperative pain, cancer pain and chronic non-cancer pain.

For further information on the EPM program or to access EPM online, please visit www.essentialpainmanagement.org.

Other workshops

Through various avenues and partnerships, the committee facilitates and supports the following workshops:

- Safer Anaesthesia From Education (SAFE) – obstetrics, paediatrics and operating room – a short course aimed at equipping anaesthesia providers with the essential skills and knowledge to deliver safe care to patients, even in low-resource settings.
- Vital Anaesthesia Simulation Training (VAST) – a 3-day simulation-based program allowing delivery of immersive, multidisciplinary, simulation-based training using low-cost equipment. It focuses on core aspects of safe anaesthesia practice and non-technical skills.

In addition to these workshops, the committee supports other courses such as Airway Management, Basic Life Support, Advanced Life Support, and regional anaesthesia at conferences and meetings.

GROWING WORKFORCE CAPACITY IN PAPUA NEW GUINEA

Educational visits

Through invitation from the University of PNG, the committee supports up to three educational visits each year to PNG to provide in-country assistance for anaesthesia and pain medicine training and examinations. The focus of these visits is to provide mentoring and coaching to maximise the success of doctors in training to become anaesthetists in PNG.

Requirements are advised by university lecturers and include conducting lectures, running workshops, having input into exam preparation, and supporting the annual medical symposium.

Awards

The college provides up to three academic awards annually in association with the Society of Anaesthetists of Papua New Guinea:

- Best medical student in anaesthesia (certificate and cash prize).
- Best Diploma of Anaesthesia candidate who goes on to Masters of Medicine (Anaesthesiology) training (certificate and cash prize).
- Professor Garry Phillips Prize for outstanding achievement within the final Masters of Medicine (Anaesthesiology) program (inscribed medal and cash prize).

Higher graduate diploma support

The committee has supported, and continues to support, the development of higher graduate diplomas across several sub-specialties, including paediatric anaesthesia, obstetrics and gynaecology anaesthesia, and head and neck surgery/airway management. The higher graduate diplomas are also supported through external supervision of consultants completing diplomas.

Papua New Guinea exams 2021

The ongoing rapid spike of COVID-19 cases in Papua New Guinea towards the end of 2021 exams threatened the viability of the University of Papua New Guinea's School of Medicine and Health Sciences annual Masters of Medicine (Anaesthesiology) and Diploma of Anaesthesiology examinations (22 October to 1 November). In previous years, two members of the Global Development Committee attended the exams in person to assist, however in 2020, with the inability to travel overseas, the exams were run with external examiners taking part in the assessment via Zoom. In 2021, the Committee assisted again, with various members and other fellows acting as remote external examiners.

At the time of the 2021 exams, around 75 per cent of patients in the Port Moresby General Hospital were COVID-19 positive and hospital staff were stretched providing clinical services. Furthermore, a significant number of hospital staff were in isolation, including some senior medical officers which necessitated a last-minute restructuring of the exams to minimise time away from work for the clinicians. Two of the candidates became COVID-19 positive and were in isolation before the exams. Fortunately, both remained well and were able to sit the exams, however further rescheduling was required to fit in with their period of isolation. Both candidates passed.

As the number of cases increased, hospital management considered cancelling all exams at the last minute, which would have delayed training potentially for another year. To further complicate the process, there was also a candidate from the Solomon Islands with two anaesthetic senior medical officers sitting in via Zoom and two external examiners from Victoria who lost power due to a major storm during the exam!

All this hard work was rewarded with all seven candidates passing the exams – a fantastic achievement both for them and the people of Papua New Guinea who will benefit from their expertise and commitment in the years ahead. Congratulations to Dr Indira Vele, Dr Rosemarie Andrews, Dr Sohana Totori, Dr Jeremy Low, Dr Newman Berry, Dr Koani Lohia and Dr Ramokasa B Stanton.



Four oxygen concentrators and other items arrive at ANGAU Hospital, Lae on 8 October 2021 after a long and delayed journey from the UK.

2021 successful candidates

Master of Medicine in Anaesthesiology (MMed II)

Dr Indira Vele
Dr Rosemarie Andrews
Dr Sohana Totori

Master of Medicine in Anaesthesiology (MMed I)

Dr Nellie Evo'o
Dr Imelda Bal
Dr Priscilla Mathew Nonge

Diploma of Anaesthesiology (DA)

Dr Jeremy Low
Dr Newman Berry
Dr Koani Lohia
Dr Ramokasa B Stanton (Solomon Islands)

Dr Indira Vele was awarded the college's Garry David Phillips medal for outstanding achievement in anaesthesia within the Masters of Medicine program at the School of Medicine and Health Sciences, University of Papua New Guinea.

Dr Jeremy Low was awarded the college's best Diploma of Anaesthesiology candidate who goes on to Masters of Medicine (Anaesthesiology) training.

The college's best final year medical student in anaesthesia prize was awarded to Morris Kinau.

The college also donated personal protective equipment to the University of Papua New Guinea, with thanks to Multigate Medical Products who supplied N95 masks free of charge and the Royal

Australasia College of Surgeons who donated hand sanitiser and provided logistical assistance in transporting the goods.

Earlier in the year, the Global Development Committee and the Rotary Clubs of Central Melbourne and Lae Huon Gulf donated four oxygen concentrators to the ANGAU Hospital in Lae. These were purchased from Medical Aid International in the United Kingdom and despite considerable delays in transport due to COVID-19 related global logistical issues, were handed over to Morobe Provincial Health Authority CEO Dr Kipas Binga on 8 October 2021. Dr Alfred Mel, Consultant Medical Oncologist Radiation and oncologist in-training provided invaluable help in the organisation, working closely with Rotary Club members in Lae and reported that the concentrators proved to be very useful during the COVID surges.



Three new anaesthetic consultants in Papua New Guinea, (from left) Dr Rosemary Andrews, Dr Sohana Totori and Dr Indira Vele, who recently passed their Master of Medicine in Anaesthesiology II examinations.

GROWING WORKFORCE CAPACITY IN TIMOR-LESTE

As it's not possible to undertake postgraduate training in anaesthesia in Timor-Leste, in 2020 ANZCA commenced support for a Timorese doctor to undertake their Master of Medicine training in anaesthesia at the Fiji National University in Suva. Training continued throughout COVID-19, however training was conducted in Timor-Leste rather than Fiji for most of 2021. This support is undertaken in consultation and collaboration with the ASA's Overseas Development and Education Committee.

PACIFIC ONLINE LEARNING AND EDUCATION

Due to the inability to deliver face to face education support because of COVID-19 travel restrictions, the committee established Pacific Online Learning and Education (POLE) at the end of 2020 to continue to support and maintain connections with overseas colleagues. In addition to ANZCA, membership of the group consists of representatives from:

- The Australian Society of Anaesthetists (ASA).
- The New Zealand Society of Anaesthetists (NZSA).
- The Society for Paediatric Anaesthesia in New Zealand and Australia (SPANZA).
- The Society of Anaesthetists of Papua New Guinea.
- The University of Papua New Guinea (UPNG).
- Fiji National University College of Medicine (FNU).
- The Pacific Society of Anaesthetists (PSA).
- The Micronesia Society of Anaesthetists.
- Timor-Leste (Hospital Nacional Dili).
- The Samoa Ministry of Health.
- An Australian junior consultant.

The first online education sessions commenced in February 2021 with sessions on obstetric anaesthesia. Since then, 34 online education sessions covering numerous topics (identified by participants and working group members) have been delivered to participants from countries including Papua New Guinea, Timor-Leste, Solomon Islands, Samoa, Micronesia and Fiji.

In addition to the online sessions, the POLE working group has organised other education events for anaesthesia and pain medicine professionals in the Pacific, such as sponsorship registrations to scientific meetings.

Feedback from the Pacific has been overwhelmingly positive. The regular meeting sessions are an opportunity to stay in contact, continue medical education and exchange experiences while further developing and strengthening the anaesthesia and pain medicine network in the Pacific. The sessions provide collaborative two-way learning, with facilitators learning from our Pacific colleagues, as they do from us.

The working group will continue to guide the direction of POLE over the coming years.

HEALTH EQUITY PROJECTS FUND

The Health Equity Projects Fund was established in 2019 to support activities of both the Global Development Committee and Indigenous Health Committee. A competitive grants process for projects that support the aims and activities of these committees is in place to allocate the available money. Applications are assessed by three reviewers and ranked in order of merit. The ANZCA Foundation Committee has final responsibility for approving and awarding grants according to the funds available.

Health Equity Projects Fund grants have been awarded to support the following global development projects.

Year	Project title
2019	Attendance at Medical Symposium and PNG Anaesthetic Society Meeting Port Moresby
2019	Building specialist anaesthesia and pain management capability in PNG
2019	WFSA Fund a Fellow
2020	Delivering Essential Pain Management in the Asia Pacific
2020	Vital Anaesthesia Simulation Training (VAST) Instructor Course Darwin
2020	VAST Instructor Course Ethiopia
2020	Interplast Indonesian Anaesthetic Training Placement
2020	Improving maternal outcomes at Intermediate Hospital Oshakati, Namibia
2020	Impact of training in anaesthesia on maternal outcomes at the district hospital level
2022	Delivering Essential Pain Management in the Asia Pacific
2022	VAST resuscitation team training: a pilot project in Rwanda
2022	Anaesthetic skills instructional clinical video assets
2022	Anaesthetic Society meeting attendance and Support Papua New Guinea

LIFEBOX

Lifebox was established in 2011 as a joint initiative of the World Federation of Societies of Anaesthesiologists (WFSA), the Association of Anaesthetists of Great Britain and Ireland and the Harvard School of Public Health with the simple aim of providing pulse oximeters to operating rooms that lacked this critical monitoring device. A pulse oximeter is the only piece of equipment included on the World Health Organization (WHO) Surgical Safety Checklist and yet, at Lifebox's launch, it was estimated that 77,000 operating rooms around the world lacked this essential piece of medical equipment.

The Lifebox pulse oximeter has been specifically designed for use in low-resource settings with robust construction and rechargeable batteries that stay on even when the power fails.

Lifebox Australia and New Zealand (ANZ) was established in 2015 as a partnership between ANZCA, Interplast Australia and New Zealand, the Australian Society of Anaesthetists (ASA), the New Zealand Society of Anaesthetists (NZSA) and Lifebox Foundation to work with hospitals in the Asia Pacific to introduce pulse oximeters into clinical practice.

Lifebox ANZ is supported by a memorandum of understanding between the five organisations and was renewed in 2022 for a further five years.

Lifebox

Lifebox is the only non-government organisation dedicated to making surgery and anaesthesia safer. Lifebox's area of work has now expanded across three core pillars – improving anaesthesia safety, reducing surgical infection rates and strengthening surgical teamwork. By working alongside local partners, Lifebox provides the training and tools needed to save lives through safer surgery. This work is rooted in the WHO Surgical Safety Checklist. It has been ten years since the development of the checklist and it remains a transformational force in the global surgery movement.

Lifebox is evolving to deliver other programs and education initiatives to make every operating room a safer place for patients and healthcare providers. In addition to donating pulse oximeters and educating staff in their use, Lifebox is working to improve surgical safety in other ways, such as helping hospitals to introduce the WHO's Surgical Safety Checklist. The Clean Cut program now being piloted in Ethiopia takes this a step further to improve perioperative and postoperative practice by tackling the high rates of surgical site infections in low resource operating rooms.



Lifebox Light

Every year, up to 24 million patients are at risk from inadequate or unreliable lighting during surgery and over 400,000 surgeons (including general surgeons, obstetricians, and other specialists) are working in health facilities with lighting constraints.

In a recent survey of surgeons working in low or middle-income countries, 48% indicated their facility experienced frequent power outages⁸. Even in facilities with a functioning backup generator, there is a lighting gap when switching from mains to generator power. Power outages are dangerous for operating room staff and even more so for patients undergoing surgery who can face complications or even death. There are many operating rooms in low and middle-income countries where no surgical lighting is available.

Lifebox is working on a solution: a durable, affordable, high-quality surgical headlamp for use in these settings to save lives, avoid cancellations of essential and emergency surgery due to lighting problems, prevent unnecessary deaths from unsafe surgery and to empower surgical teams in low-resource countries with a robust, low-cost headlight to be used during operations.



WFSA FUND A COLLEAGUE'S EDUCATION

ANZCA supports the World Federation of Societies of Anaesthesiology (WFSA) Fund A Colleague's Education (FACE) program which provides low-cost, high-quality training to anaesthetists from low-and middle-income countries through fellowships at leading hospitals around the world.

The college also enables its members to make tax-deductible donations to FACE through the ANZCA Foundation.

GLOBAL DEVELOPMENT GUIDES AND RESOURCES

The Global Development Committee library guide contains many resources to support committee activities and provides free access to textbooks and journals to students and doctors in the Asia-Pacific. The library guide also includes a section for resources specific to Pacific Online Learning and Education, including presentation PowerPoint slides and recordings.

The committee provides advice on how to select, assess and work ethically on international volunteering trips, through various documents, presentations and checklists including:

- Guidelines on humanitarian work.
- Interested in volunteering factsheet.

The ASA administers a volunteer database that enables members to be notified of opportunities and upcoming positions in global health and RACS has developed a Global Health Deployment Guideline.

We encourage those interested in global health work to attend a Real World Anaesthesia Course.

ADVOCACY

The Global Development Committee advocates through:

- Participation in forums and groups such as the Global Health Meeting of Specialist Colleges, Associations and Organisations.
- *ANZCA Bulletin* articles.
- Submissions to governmental and other inquiries.
- Engagement and collaboration with stakeholders including government and other colleges.
- ANZCA Annual Scientific Meeting presentations.
- Attendance and presentations at Pacific conferences including the PNG medical symposium and the Pacific Society of Anaesthetists annual conference.

PROGRAM EVALUATION

A number of evaluations of Global Development Committee activities have been undertaken as a quality improvement mechanism and to refine their targeting and effectiveness. The committee also supports more formal evaluation programs and in 2020 jointly funded an evaluation of the Essential Pain Management Program with Interplast – Evaluation of Essential Pain Management program in Bangladesh 2013-2018.



Dr Hilbert Tovirika from Port Moresby General Hospital with the medal awarded for the Garry Phillips Prize.

Looking forward

In developing the Global Development Committee's next five-year strategic priorities, the following were considered:

- Areas for support identified by colleagues in the Pacific.
- Past activities and established links with communities and health services.
- The global surgery and anaesthesia landscape.
- Australian and New Zealand government foreign aid policy.
- ANZCA's strategic priorities.
- The strengths, expertise and in-country relationships of Global Development Committee members.

Three overarching areas of strategic focus have been identified to frame the committee's strategic priorities for 2023-2027, as detailed below.

Workforce and capacity building

The college will work alongside colleagues in Papua New Guinea and other Pacific nations to help build and support their workforce and capacity through educational and support initiatives as guided by colleagues in-country.

- Support anaesthesia, perioperative medicine and pain medicine education to PNG through teaching visits, prizes, conference, workshop, scholarships and exam support, and higher post graduate diploma support.
- Develop and implement online education to anaesthesia providers in the Pacific through the Pacific Online Learning and Education program.
- Provide opportunities for Pacific colleagues to attend scientific meetings and education programs.
- Support EPM in the Asia Pacific.
- Support other training programs in the Asia Pacific including SAFE and VAST.
- Support Timor-Leste anaesthesia training and consider expanding educational support in partnership with the ASA.
- Provide financial support for WFSA Fund A Colleague's Education (FACE) program through a yearly donation.
- Support projects led by fellows that align with the committee's aims and initiatives.

Partnerships and collaboration

The college will develop, maintain and build partnerships with societies, hospitals and universities in the Pacific and like-minded colleges, societies and organisations in Australia and New Zealand to expand opportunities and ensure a collaborative approach is taken to initiatives.

The following partnerships will be developed and maintained:

- Society of Anaesthetists of Papua New Guinea.
- University of Papua New Guinea.
- Fiji National University.
- Pacific Society of Anaesthetists.
- World Federation of Societies of Anaesthesiologists.
- Interplast Australia and New Zealand.
- Lifebox Australia and New Zealand.
- Lifebox Foundation.
- Australian Society of Anaesthetists.
- New Zealand Society of Anaesthetists.
- Royal Australasian College of Surgeons.
- Other medical colleges.

Advocacy and evaluation

The college will advocate for the importance of anaesthesia, perioperative medicine and pain medicine in the Pacific at various levels within its sphere of influence.

The college will evaluate its programs to ensure aims and objectives are being met.

- Encourage and support trainees interested in global health.
- Provide information to fellows and trainees through conference presentations and college communication avenues including the college website, social media platforms, e-newsletters and the *ANZCA Bulletin*.
- Provide advice to fellows interested in undertaking or supporting global development work.
- Conduct regular environmental scans to identify opportunities to support and advocate for better health outcomes in the Asia Pacific region.
- Support partners in advocacy efforts where appropriate.
- Write submissions to governmental and other inquiries.
- Conduct continuous informal and formal evaluation of educational support activities and implement any recommendations.

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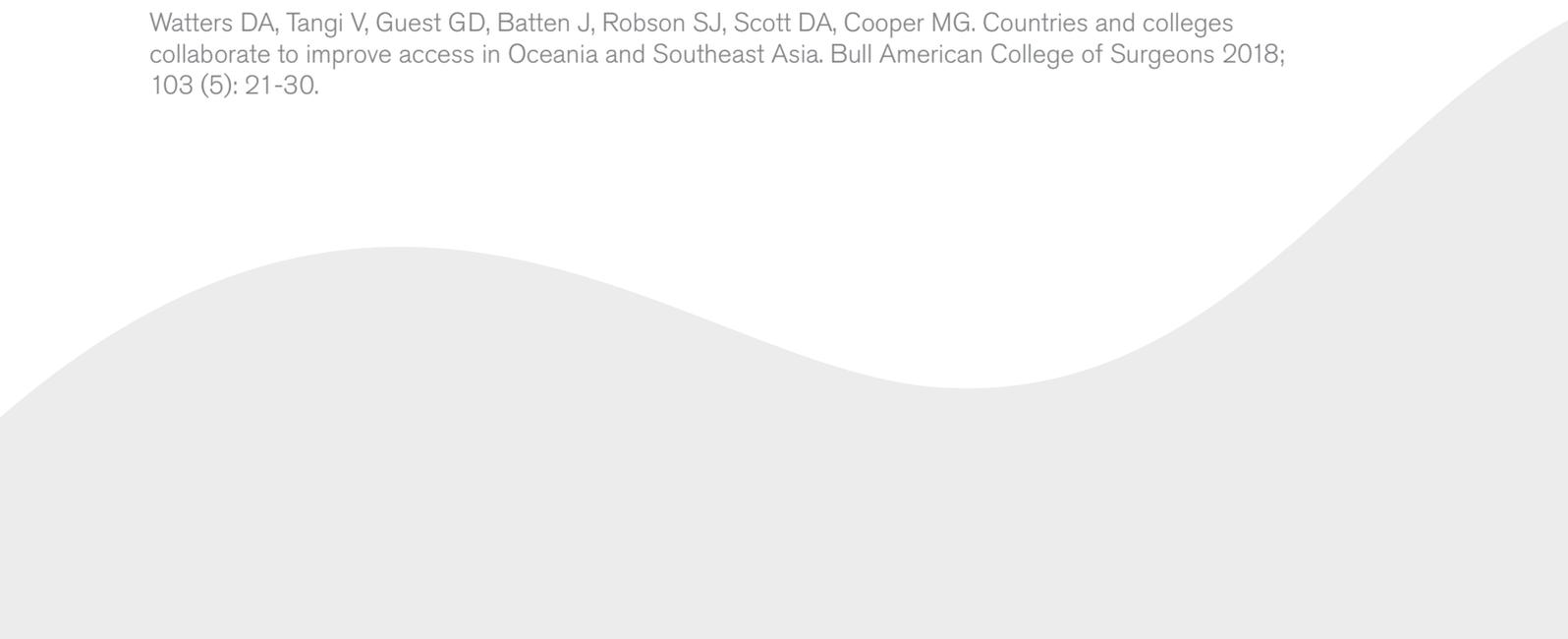
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Appendices

APPENDIX 1 – REVIEW OF THE GDC STRATEGIC PRIORITIES 2018–2022

The 2018-2022 strategic priorities outlined ANZCA's ongoing commitment to provide training and education, pulse oximeters (Lifebox), and support and advocacy in Papua New Guinea (PNG). In addition to the ongoing commitment to PNG, the 2018-2022 strategic priorities set out to:

- Increase opportunities for trainees to experience working in a low-or middle-income setting.
- Support WFSA programs.
- Increase the promotion of the committee's work through various avenues including the website, conferences, and seminars.
- Provide further opportunities for colleagues in low-and middle-income countries to attend and have access to education events and resources in Australia and New Zealand.
- Explore broadening training and education support to other Pacific countries.
- Build partnerships with other colleges, professional, government and non-government organisations.
- Evaluate our programs.

COVID-19

Due to the COVID-19 global pandemic several of the committee's ongoing and planned activities were significantly impacted. However, the limitations on travel for more than half of the five-year period presented new opportunities for partnerships, collaboration and education and learning modalities.

Papua New Guinea

Ongoing activities

Education visits to PNG continued throughout the years not restricted by COVID-19, including teaching visits, the annual PNG Medical Symposium and Society of Anaesthetists of PNG workshop and presentation support, and support for external examiners.

The college continued to provide prizes in anaesthesia at the undergraduate, diploma and master level, and ensure Lifebox pulse oximeter needs were met. This included conducting a needs assessment at the PNG Medical Symposium, and an emergency response for pulse oximeters during COVID-19 in PNG.

COVID-19 response

In response to COVID-19, the college kept in close contact with colleagues to help understand the situation and how the college could provide support. The following activities were in direct response:

- Emergency pulse oximeters were shipped to PNG and distributed to hospitals including small provisional hospitals by the Society of Anaesthetists of PNG through several basic ventilator workshops in Port Moresby.
- A donation of oxygen concentrators to ANGAU was facilitated by the college and rotary, and personal protective equipment (PPE) was sent to Port Moresby for clinical exams.
- An external examiner is a requirement for exams at the School of Medicine and Health Sciences, University of Papua New Guinea. With no travel allowed, the college provided virtual external examiners and support for exams in 2020 and 2021, importantly allowing for the continuation of trainee progression in PNG.

Other support activities

In 2022, the University of PNG launched three anaesthesia/intensive care higher post graduate diplomas – intensive care, paediatric, and obstetrics and gynaecology. Through fellow support, the committee helped to develop the curricula for paediatric and obstetrics and gynaecology and are acting as external supervisors of training. Several fellows are currently helping to develop a regional anaesthesia diploma and an airways/head and neck diploma.

An area of support communicated to the committee was for education around mentoring and teaching adults. Using parts of the ANZCA Educators Program that were identified as being most beneficial, a virtual education session on mentoring was run in 2022 for 20 consultants in PNG, receiving very positive feedback.

Other college activities

COVID-19 response

In addition to the committee's COVID-19 response in PNG, an \$A5000 donation was made to the WFSA for their Unity for Oxygen appeal to deliver oxygen concentrators, pulse oximeters, generators emergency bags, associated training, and ongoing maintenance support to a number of hospitals in Nigeria and Zimbabwe.

The college also co-badged an Oxygen Therapy with Limited Resources document with the College of Emergency Medicine, Pacific Community and WFSA. This resource provides practical oxygen therapy and preventing infections in hospital staff for COVID-19 severe acute respiratory infection (SARI) and pneumonia. The document was implemented by the Society of Anaesthetists of PNG and rapidly promulgated and disseminated around PNG to support provincial hospitals through the pandemic.

Pacific Online Learning and Education

Although the COVID-19 global pandemic impacted the ability to travel both to and from Australia and New Zealand, it also presented new opportunities. The introduction of the Pacific Online Learning and Education (POLE) working group and activities has allowed the college to build relationships with numerous Pacific countries and provide educational support to those countries. A working group was put together at the end of 2020 and consists of representatives from ANZCA, ASA, NZSA, Papua New Guinea Society of Anaesthetists, University of Papua New Guinea, Fiji National University College of Medicine, an anaesthetist representative from Timor-Leste, Pacific Society of Anaesthetists, Micronesia Society of Anaesthetists and Samoa Ministry of Health.

The working group decided on monthly education sessions for anaesthesia trainees and junior doctors and monthly education sessions for anaesthesia scientific officers and nurse anaesthetists, along with consultant continuing medical education (CME) sessions.

Participation in twice monthly online (via Zoom) education and learning sessions has come from countries across the Pacific, including Fiji, Timor-Leste, Federated States of Micronesia, Tonga, PNG, Solomon Islands and Samoa.

Further to supporting education in the Pacific, POLE has also allowed for an increasing number of fellows to become involved in the work of the Global Development Committee through session facilitation.

Due to the success of the POLE program and the ability to reach a wider anaesthesia community in the Pacific through online learning and education, we envisage that the program will continue post travel restrictions and continue to evolve to meet the needs of the participants.

Essential Pain Management

Essential Pain Management face-to-face activities continued until travel restrictions were put in place. As a result, a virtual EPM course was developed in partnership with Interplast and housed on the Praxhub learning network site. The module has received over 4000 views since its launch at the virtual WFSA World Congress in September 2021.

Over the five-year period, two EPM evaluations have been undertaken:

- EPM in Bangladesh – Along with Interplast, the committee supported an evaluation of EPM in Bangladesh (2013-2018) by the Centre of Injury Prevention and Research, Bangladesh.
- EPM in PNG – As part of their Masters of Anaesthesia, a registrar in PNG conducted an evaluation of EPM across PNG. This project was supported by the committee and the ASA's Overseas Development and Education Committee through funding and external supervisor support.

Timor-Leste

In 2020 due to a lack of funding in Timor-Leste, the college committed to supporting a doctor in Timor-Leste to train and complete their master of Anaesthesia at the University of Fiji. Training continued throughout COVID-19, however training was conducted in Timor-Leste rather than Fiji for most of 2021. As the trainee was in Fiji at the time COVID-19 hit, the college supported them to return safely to Timor-Leste.

Support for attendance at major meetings

Providing access to education opportunities through attendance at major scientific meetings continued throughout the five-year period. The committee supported attendance at ANZCA Annual Scientific Meetings and the WFSA World Congress. As the meetings became virtual, the committee was able to support a greater number of registrations.

Although face-to-face meetings provide greater opportunity for networking and meeting colleagues, virtual meetings allow for a larger number of colleagues to attend meetings without putting strain on under resourced departments due to clinicians being away. As future meetings are likely to become hybrid models, the committee will look to support face-to-face and virtual registration options.

International scholarship

In 2018, Dr Pauline Wake from Port Moresby General Hospital completed her international scholarship in Adelaide. In addition to the clinical and education activities within the hospital, Pauline was able to attend the ANZCA educators' course and observe ANZCA exams.

With no suitable applications in 2019, a review of the scholarship procedures took place, with IELTS and finding a suitable/willing Australian or New Zealand supervisor and hospital being identified as the biggest hurdles to progressing the scholarship. The pandemic prevented any kind of trial of a newly structured international scholarship.

Trainee scholarship

In 2018 the number of trainee scholarships increased from one to two. Trainee scholarships ran while travel was not restricted and were put on hold during the pandemic.

In 2018, a trainee scholarship evaluation was put in place to ascertain if trainee scholarship recipients have continued to support low-and middle-income countries through such activities as clinical or education support.

Health Equity Projects Fund

In 2019 a Health Equity Projects Fund (HEPF) was established to support the aims and activities of the Indigenous Health Committee and Global Development Committee. Funding is open to all fellows through a competitive grants process. Grants for global development activities were awarded in 2019, 2020 and 2022. The funding round was not run in 2021 due to COVID-19 and projects granted in 2020 were given till the end of 2022 to complete.

The HEPF has been very successful within global development and has allowed for a range of activities to take place across several countries. It's provided more opportunities for fellows across the college to contribute to the aims of the committee. Reports provided at the end of each activity enables the committee to assess the project's success, and the success of the HEPF more generally.

Lifebox ANZ

The Lifebox ANZ partnership continued over the five-year period. In 2018, a new three-year MoU (2019-2021) was signed by all members – Lifebox Global, Interplast ASA, NZSA and ANZCA. Another three-year MoU was signed in 2022 (2022-2024). In response to COVID-19, a needs assessment for the Pacific was conducted and emergency pulse oximeters were distributed.

Library guide

Access to training resources and academic journals is an identified problem for colleagues in the Asia Pacific. The committee worked with the ANZCA Library team to research access to journals through Hinari and develop an easily accessible Asia Pacific resources library guide.

Annual donations

The committee donated to Lifebox ANZ and Fund a Colleagues Education (FACE) (previously named Fund-A-Fellow) each year throughout the five-year period.

Other relationships

The committee continued to work collaboratively with the ASA and NZSA global health teams. A stronger relationship with SPANZA has been built over the past five years, resulting in collaborative efforts to provide education through meeting attendance. The combined medical colleges and associations global health forum (a collaborative specialist medical colleges and associations global health forum) continued in 2018 and 2019 with ANZCA hosting a meeting in early 2019. The forum was put on hold through COVID-19 which has resulted in a drop off of sharing and collaboration between ANZCA and other colleges, however the forum has been re-established in 2022 in a different format.

In 2021, the college signed a letter of intent with the Mongolian Society of Anaesthetists in an effort to support the development of improved education and continuing professional development in anaesthesia and pain medicine in Mongolia.

Media

The committee's work was featured throughout the college's media platforms, with over 20 related articles appearing in the *ANZCA Bulletin*, and various promotion throughout the college e-news and social media platforms.

Summary

Overall, strategic priorities were met during the 2018-2022 period even with the impact of the COVID-19 pandemic. The committee maintained its support and strong collaborative relationship with PNG through continuous and new activities, one of which included a new position on the Global Development Committee for the Society of Anaesthesia of PNG president and an observer position for a School of Medicine and Health Sciences, University of PNG representative.

Learning and education support and opportunities to attend conferences was broadened to other Pacific countries through the development of the Pacific Online Learning and Education program and support for a Timor-Leste trainee. The Pacific Online Learning and Education program further enabled relationships to be built across the Pacific, and for an increased number of fellows to become involved in global development.

Programs that were put on hold during the pandemic will look to be fully reinstated in 2023 and will work alongside new programs and partnerships formed during the pandemic and over the past five years, ensuring the committee maintains and continues its support and relationships across the Pacific.

2018-2022 strategic priorities

Actions	Ongoing	2018	2019-2022
Support training and education in PNG and other low-and middle-income countries	<p>PNG</p> <ul style="list-style-type: none"> ▪ Support three or more teaching visits per year ▪ Support the annual PNG medical symposium and the PNG Society of Anaesthetists. ▪ Coordinate and support an external examiner for Final MMED (Anaesthesiology) examinations. ▪ Provide prizes in anaesthesia at the undergraduate and diploma levels and the Professor Garry Phillips MMED prize. ▪ Advocate for the educational and teaching benefits of the Health Education and Clinical Services program ▪ Attract and support trainees to Anaesthesia. 	<p>Other low-and middle-income countries</p> <ul style="list-style-type: none"> ▪ Provide support for WFSA Australian paediatric fellowship. 	<p>Other low-and middle-income countries</p> <ul style="list-style-type: none"> ▪ Broaden the geographic reach of existing OAC initiatives, and establish a budget to support training and education in other Asia-Pacific countries ▪ Broaden the scholarships available and establish a budget and guidelines for coordinating anaesthetists from low-and middle-income countries to attend educational events in Australia and New Zealand

Support the donation of educational equipment and safety initiatives for low- and middle-income countries	<ul style="list-style-type: none"> Financial support for the Lifebox initiative with identification of need and donation of pulse oximeters. Provide advice and education on the use of medical equipment. 	<ul style="list-style-type: none"> Financial support for WFSA Fund-A-Fellow program through a yearly donation. 	<ul style="list-style-type: none"> Advocate to ANZCA for free access for low- and middle-income countries to online courses and educational / library resources developed by ANZCA.
Engagement and Advocacy	<ul style="list-style-type: none"> Provide advice to, Fellows interested in undertaking or supporting international development work. Advocate for the importance of anaesthetic and pain medicine at the national and international level. Regular environmental scanning to identify opportunities to support and advocate for better health outcomes in the Asia/Pacific region. Draw on international commitments Australia and New Zealand have signed up to, and documented priorities when advocating. 	<ul style="list-style-type: none"> Increase the number of trainee scholarships available Review and update the OAC page on the ANZCA website. Creation of sponsorship package options for private anaesthetic groups and explore other external funding opportunities Develop partnerships with DFAT and medical Colleges to ensure a coordinated approach to training in PNG Explore options for providing information to Fellows and trainees through a yearly seminar Investigate attaining an OAC/ Lifebox booth at future ASMs Develop a list of ANZCA members working in aid/ interested in working in aid. 	<ul style="list-style-type: none"> Encourage ANZCA trainees interested in international development. Increase exposure of the trainee scholarships and support available to Fellows working in Asia Pacific countries. Provide information to Fellows and trainees through seminars and conference sessions. Develop partnerships within the medical Colleges to expand educational and training opportunities. Develop partnerships with professional, government and non-government organisations to expand educational and training opportunities, including consideration of affiliation with a medical NGO Consider the merits of DFAT requirements for NGO accreditation Engage with MFAT in New Zealand, to explore potential opportunities that support its approach to foreign aid in the Pacific region.
Evaluation		<ul style="list-style-type: none"> Evaluation and efficacy of the Trainee Scholarship Develop a framework for the evaluation of the support provided to PNG 	<ul style="list-style-type: none"> Evaluation of the support provided to PNG Evaluation and efficacy of the International Scholarship

APPENDIX 2 – GDC BULLETIN ARTICLES FROM 2018–2022

Author	Issue	Title
McLeod M	Mar 2018 p76-77	Anaesthesia in Zambia
Wall A	Mar 2018 p52-53	Lifebox a vital tool for saving lives across the globe
Broadbent A	Mar 2018 p49	Steppe out – dealing with chronic pain in Mongolia
Jones C	Mar 2018 p62-3	Leading change for good on the world stage
Mossenson A	Jun 2018 p74-5	A VAST improvement for resource-limited settings
Mitchell R	Sep 2018 p4	President's message
Cooper M	Dec 2018 p12	Contributing to PNG
Cooper M	Mar 2019 p30-31	How ANZCAs overseas aid strategy is working to improve health outcomes
Jones C	Mar 2019 p32-33	Spotlight EPM in Hong Kong
Morriss J, Wall A	Mar 2019 p34-5	Spotlight on EPM in PNG
Endlich Y	Mar 2019 p36	Anaesthesia in PNG
Higgins A, Wall A	Mar 2019 p37	Building future leaders and teachers of anaesthesia in lower income countries
Cooper M	Mar 2019 p38-9	Supporting anaesthesia and pain medicine leadership
Jones C	Sep 2019 p28-32	ANZCAs new health equity projects fund helps drive change in PNG
Cooper M, Endlich Y	Winter 2020 p35	From the global anaesthesia front line
Endlich Y	Winter 2021 p32-33	Pacific boost for online anaesthesia learning
Jones C	Winter 2021 p30-31	Pandemic challenges in PNG
Goucke R	Spring 2021 p50-51	EPM goes online
Broadbent A	Spring 2021 p58-59	Anaesthesia leader and advocate Prof Alan Merry retires
Cooper M	Summer 2021 p74-75	Exam success for PNG candidates
Mossenson A	Autumn 2022 p59	Anaesthesia simulation training a key tool for collaboration
Jones C	Autumn 2022 p54	Anaesthesia training in Mongolia a priority for country's leaders
Jones C	Autumn 2022 p50	PNG anaesthetist scores a 'trifecta' with latest accolade

