

The Australian and New Zealand College of Anaesthetists ANZCA Clinical Trials Network

Large Trials in Anaesthesia and Perioperative Medicine

Ms Sophie Wallace and Ms Jaspreet Sidhu

AGENDA

- ANZCA Clinical Trials Network
- Investigator initiated clinical trials in Anaesthesia
- Funding sources NHMRC, College Foundation, hospital grants / awards
- Trial management Project Office perspective
 - ETHICS and governance
 - CTRA negotiation
 - CTNs
- NMA past, present, future?

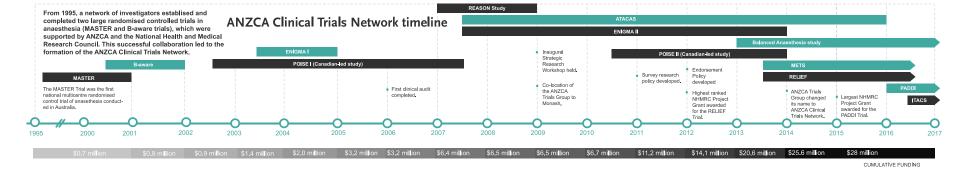


DISCLAIMER

The views and opinions expressed in this presentation are based on our individual and collective experiences only and we encourage our colleagues and peers in this room to share your experience at the end of this session as there may be discipline specific issues that we have not addressed today.



CELEBRATING OVER 20 YEARS IN ANAESTHESIA RESEARCH





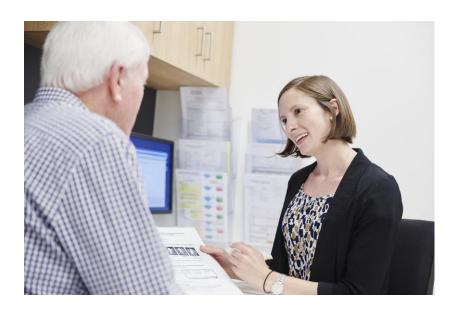
AT A GLANCE

\$\frac{33 \text{ million}}{\text{in total research}}\$
funding



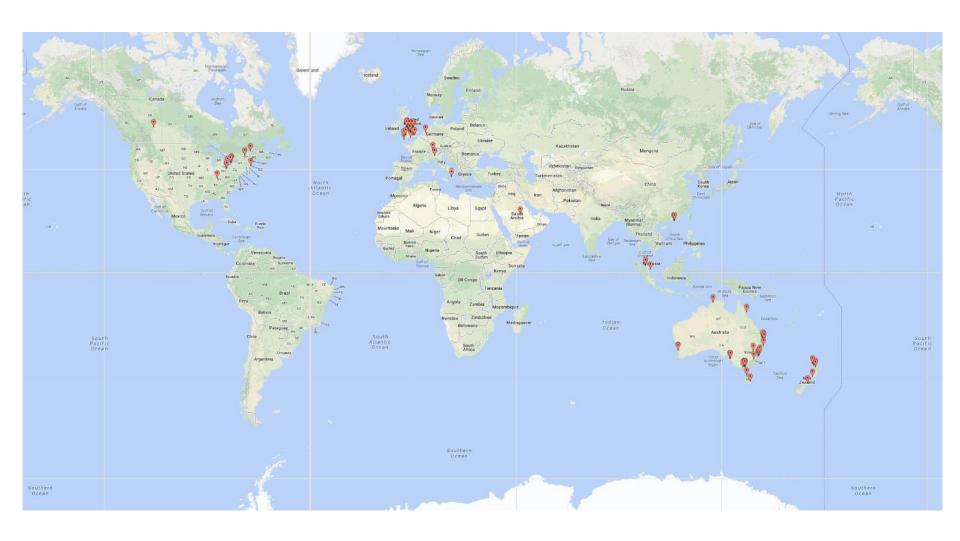
15 multicentre trialsacross 130 sites in12 countries





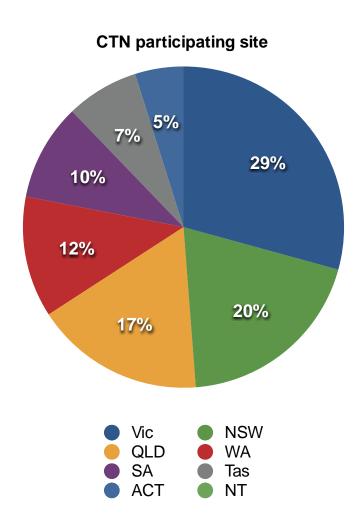


SITES





Australian sites



$$NSW - 8$$

$$QLD - 7$$

$$WA - 5$$

$$SA - 4$$

$$Tas - 3$$

$$ACT - 2$$



ANZCA CTN Trials

Completed Trial

ANZCA Research Grant MASTER

ANZCA Research Grant B-Aware

POISE

ANZCA Research Grant ENIGMA

ANZCA Research Grant REASON

ANZCA Research Grant ENIGMA II

POISE-2

Neurovision

ISOS

Current Trials

ANZCA Research Grant ATACAS

ANZCA Pilot Grant BALANCED

ANZCA Pilot Grant RELIEF

ANZCA Research Grant METS

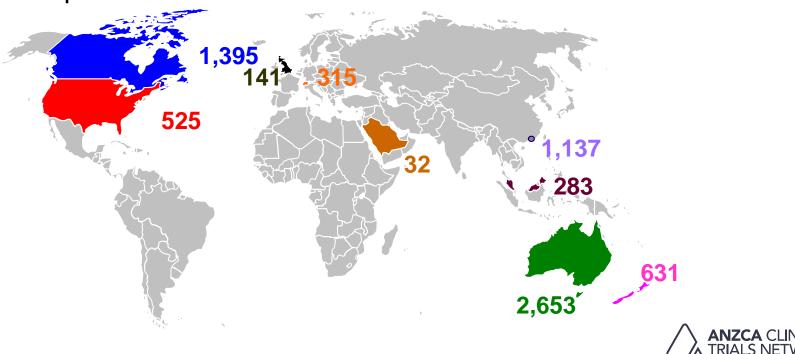
PADDI

ANZCA Pilot Grant ROCKET



ENIGMA II

- Large, multicentre 5 year trial
- 7106 patients in 45 hospitals worldwide
- Long term effects of nitrous oxide in patients with coronary artery disease undergoing major surgery
- Primary outcome composite of death and cardiovascular complications



PADDI Trial

Perioperative ADministration of Dexamethasone and Infection

- N = 8880
- Dexamethasone 8mg or placebo
- Inclusion criteria
 - Adult patients, skin incision >5cm, surgery over 2hr,
 minimum hospital stay of 1 night
- Primary outcome
 - Surgical site infection within 30 days of surgery

Largest value NHMRC project grant in 2014





ITACS Trial

IV iron for Treatment of Anaemia before Cardiac Surgery

- N = 1000
- Inclusion criteria
 - Adult patients with anaemia undergoing elective surgery
- Primary outcome
 - Days alive out of hospital to 30 days of surgery



Ethics & Governance processes...

Trial	Total sites (countries)	No. sites in Aus	Ethics approach
MASTER	25 (6)	18	site based
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Balanced*	76 (8)	28	SERP
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ITACS	32**(5)	12**	NMA



^{*} international project office

^{**} EOIs received

Ethics applications in the 90s

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	The University of Western Australia
	APPLICATION TO UNDERTAKE RESEARCH INVOLVING HUMAN SUBJECTS
DI-	(RESPONSES MUST BE TYPED)
	ase answer all questions fully in terms which can be readily understood by an informed layperson.
1.	TITLE OF PROJECT
	A randomised controlled trial of epidural anaesthesia and analgesia in major surgery
2.	CHIEF INVESTIGATOR (must be a member of staff of The University of Western Australia, Sir Charles Gairdner Hospital, or Perth Dental Hospital)
	Name: Jamrozik Position: Senior Lecturer
	Department: Public Health Telephone (Business Hours): X 1254
	Contact Address: a/a
	If this is a student project please include the name of the student:
3.	EXPECTED DURATION OF PROJECT from November 1994 to December 1997
4.	FUNDING Is this protocol the subject of a grant application?
	If Yes', what is the Agency? NHMRC, ANZ College of Anaesthetists
_	
5.	REVIEW OF ETHICAL CONSIDERATIONS
	Has the protocol previously been submitted to the Committee for Human Rights? Yes No
	Has the protocol been submitted to any other Institutional Ethics Committee?
	If 'Yes', to which Committee/s has it been submitted?
6.	AIMS OF THE PROJECT
	Please give a concise description of the aims of the project in lay terms.
	Please see patient information sheet.
	This application is to cover participation of UWA / SCGH in an eight-centre multicentre trial.
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Australian Trail of Epidural Anaesthesia and Analgesia in Major Surgery

Information for Patients

Description

Two types of anaesthetic may be used for patients having the kind of operation planned for you. If the patient is given a conventional anaesthetic, he of she is given medications by injection into a very concept of the drugs causes temporary unconsciousness, a second drug blocks pain, and a third drug paralyses all of the muscles in the body in order that the surgeon can have easy access to the field of surgery. This also requires the anaesthetist to control your breathing throughout the operation. After the operation, further doses of drugs to block pain are given by injection into a vein or muscle. Frequently, an epidural anaesthetic is used together with conventional general anaesthesia to reduce the stress of the surgery and to provide relief from pain after the operation. In these cases, an epidural drug is given through a fine plastic tube inserted in the middle of the patient's back just before the general anaesthetic is given.

Some anaesthetists and surgeons believe that reducing the stress of an operation by using an epidural anaesthetic decreases the complications of surgery and leads to a quicker recovery and earlier discharge form hospital. Many other anaesthetists and surgeons do not agree with this view.

The only way to resolve the uncertainty is to do an experiment in which some patients receive one type of anaesthetic and some patients the other type. For this reason, you are invited to take part in a trial which will compare conventional anaesthesia without an epidural with conventional anaesthesia with an epidural. Either type of anaesthetic is suitable for you, and you will receive all usual care before, during and after your surgery regardless of which anaesthetic you receive or whether you join the trial at all.

The risk of having an epidural with general anaesthesia versus the risk of not having an epidural with general anaesthesia is, in general, not known. As noted above, the reduction in stress associated with an epidural during surgery might reduce the rate of serious complications, such as heart attack, stroke and thrombosis. Patients with pre-existing medical problems who undergo major surgery may be at quite high risk - up to 50% of developing a significant complication during the first 14 days following the operation, regardless of the type of anaesthetic used. This reflects the risk of the surgery, not of the general or epidural anaesthesia. The rate of serious complications following either type of anaesthesis is very low, between 1 in 10,000 and 1 in 50,000. If an epidural dose reduce the major complications of surgery, this would compensate for the small additional risk of the epidural itself. Side effects of general anaesthesia include nausea, vomiting, backaches and drowsiness. Side effects of epidurals include low blood pressure, nausea, vomiting, backache, headache and itching.

Eight major teaching hospitals in Victoria and Western Australia have agreed to take part in the trial. This agreement reflects the concern felt by many Australian specialists that the uncertainty as to whether epidural anaesthesia is better needs to be resolved. The eight hospital are the Royal Melbourne, Alfred, St. Vincent's, Austin and Heidelberg Repatriation Hospital in Melbourne and the Sir Charles Gardiner, Hollywood Private and King Edward Memorial Hospitals in Perth.

If you do agree to take part in the trial, the type of anaesthetic you receive will be decided by a random process. This helps to ensure that the patients in the two groups are equivalent for all other factors that might affect the outcome of the operation.

The doctors in charge of the experiment in this hospital are **Dr. Thomas Tan**, **Dr. Gerard Stainsby** and **Prof. Duncan Blake**. Please ask to speak to one of them or to **Fiona Libreri**, the Research Nurse working on the project, if you have any questions about the trial. Alternatively, you may wish to contact the Trial Office on telephone number (09) 389 1254.



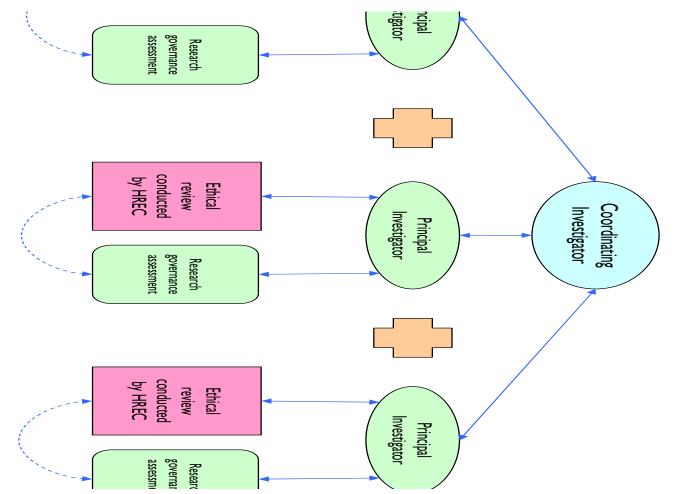


- Printed copies
- Costs Postage, paper, time
- Individual site queries

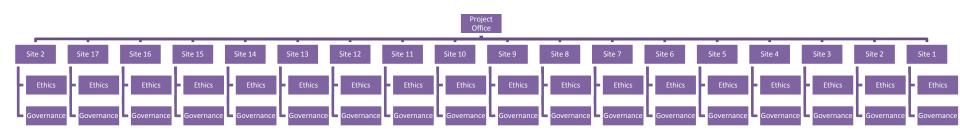


nvestigator has to handle requests from multiple HRECs. 1al HREC conducts its own ethical review of the research proposal (i.e. multiple ethical review occurring for one research proposal).

s the outcome of multiple ethical reviews and may be required to enter into dialogue with all HRECs to achieve a consensus position.













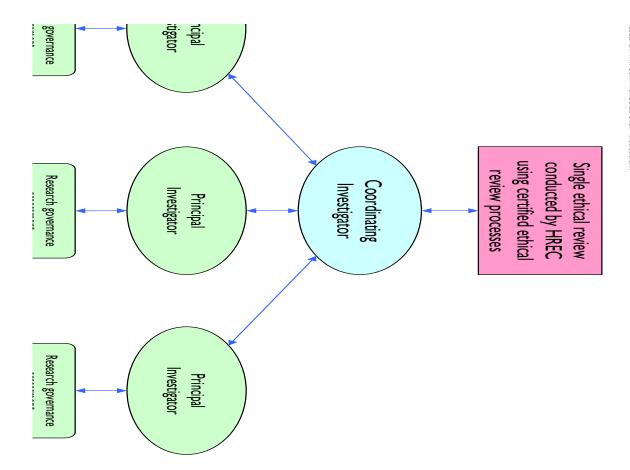


Single ethical review

esponse of one HREC.

ators at each participating institution provide the outcome of the single ethical review to their respective institution.

र institution uses the outcome of the single ethical review and their site-specific research governance information to determine esearch will commence at their institution.





National Mutual Acceptance – The Principles

- Efficiency agreed timeframes for processes and procedures are adopted in all jurisdictional systems
- **Trust** the single ethics review of a multi-centre research proposal is accepted by institutions without re-review by their institutional HREC
- **Respect** the National Approach accommodates the differences in jurisdictional statutory and administrative frameworks and institutional arrangements
- **Compliance** single ethics review of multi- centre human research meets the requirements of the National Statement to protect human research participants as well as meeting relevant jurisdictional statutory and administrative frameworks



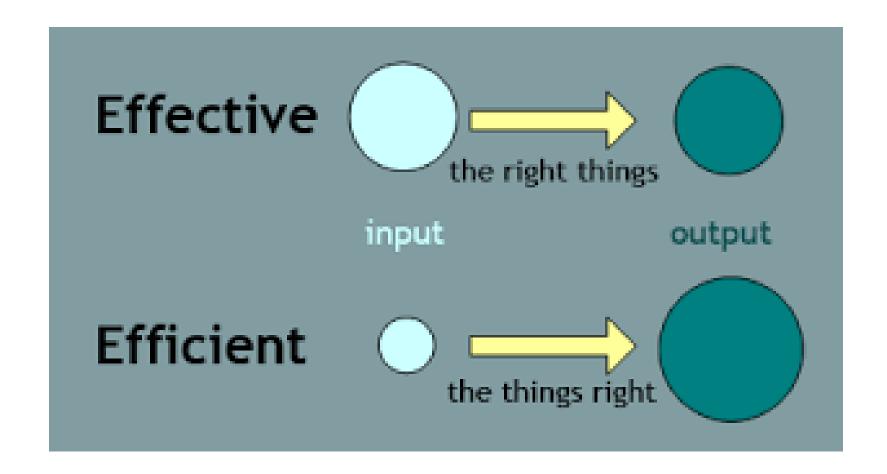
National Mutual Acceptance - Benefits

- Time from ethics review application to study start-up is shortened (savings in human and monetary resources)
- Australia's attractiveness as a place for international investment in commercially sponsored clinical trials is enhanced
- Public confidence in the rigour of Australia's system of ethics review is increased due to the standardisation of ethics review processes
- Roles and responsibilities are transparent

Q: Is there are gap between this theory and practise?



Can we see the benefits yet?





ANZCA CTN Trial - revisited

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Despite the changes...











Challenges then...

- Duplication at individual sites
- Resource intensive
- Increased burden on ETHICS committees and CPI
 - Queries / clarifications
 - Multiple reviews
- Time to site start up
- Effort to coordinate between sites
- Lack of universal regulation
 - Site specific
 - Hard as manager to keep abreast of the various site specific regulations



Current state

- All states and territories (however not completed rolled out)
- NEAF accepted by all
- Site specific documents (state regulations)
- E-signatures
- Inconsistencies between reporting SAEs due to trial / site specific requirements
- Private hospitals not part of NMA



Are there still challenges?





The future...

- Agreement to use the Universal database platforms
 - ethicsforms
 - AuRED
- Increased support and training for use of these national systems
- Get rid of paper
- CTRAs
- CTN/CTX TGA notifications







Navigate	Documents	Transfer Form Temporarily	Authorisation	Submission	SSA	Project Progress	Email History
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List Upload

Any electronic documents already uploaded against the NEAF Application Form will automatically be uploaded against the SSA Form

Document Type	Document Upload Date	Document Date	Version	Size	Uploaded by Assessing Organisation	Tools
Covering Letter	(none)					
CTN Form	(none)					
CTX Form	(none)					
Drug data sheet	(none)					
GP/Consultant Information Sheets	(none)					
Interview Schedules / Topic Guides	(none)					
Investigator CV	(none)					
Investigator's Brochure	(none)					
Letter from Sponsor	(none)					
Letter Of Intention To Appeal	(none)					
Letter of invitation to participant	(none)					
Master Consent Form	(none)					
Master Participant Information Sheet	(none)					
Other	(none)					
Participant Information Sheet/Consent Form	(none)					
Peer Review	(none)					
Protocol	(none)					
Questionnaire	(none)					
Response to Request for Further Information	(none)					
Sample Diary/Patient Card	(none)					
Site Specific Consent Form	(none)					
Site Specific Participant Information Sheet	(none)					
Statistician Comments	(none)					
Summary/Synopsis	(none)					
Victorian-Specific Module	(none)					



Thank you



