



Canterbury
District Health Board
Te Pōari Hauora o Waitaha



Neonatal Research

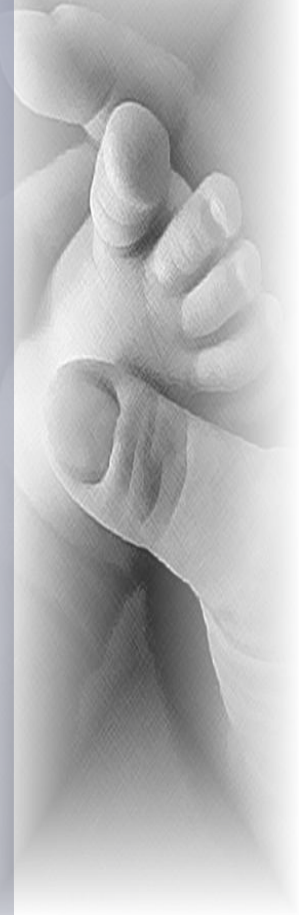
Christchurch Women's Hospital

Carole Spencer.

Trish Graham.

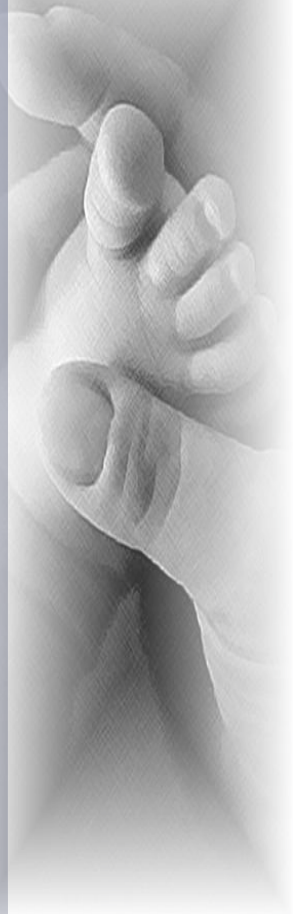


- Why
 - Evidence based practice
- When
 - Ongoing process
- How
 - RCT
 - Qualitative and quantitative studies



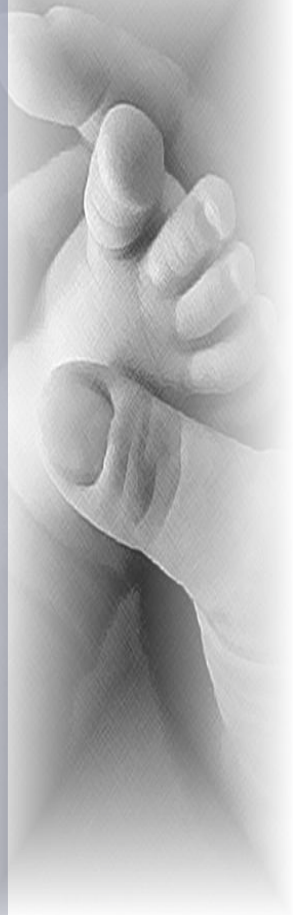
Who is doing research in NICU

- NZANN
- Consultants-individual
- Consultants-group
- Nurses-individual
- Nurses-group
- Registrar
- NNP's
- Allied health



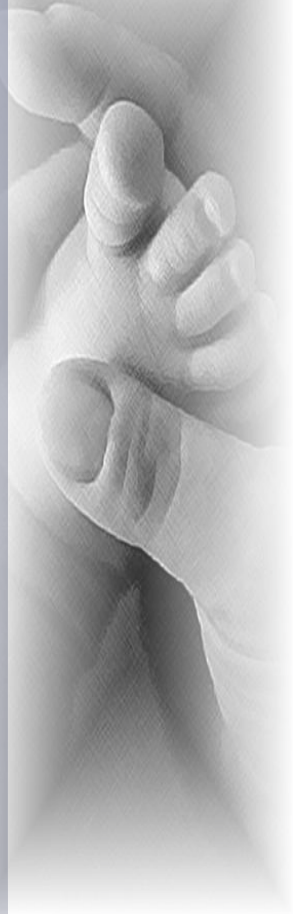
How to find out about Neonatal Research

- Ask the investigators
- Look for resource manual (level3)
- Look for resource boxes (level 3)
- Attend research meetings
- Be aware of consent forms in clinical notes
- G drive research folder ??



How to get involved in Neonatal Research

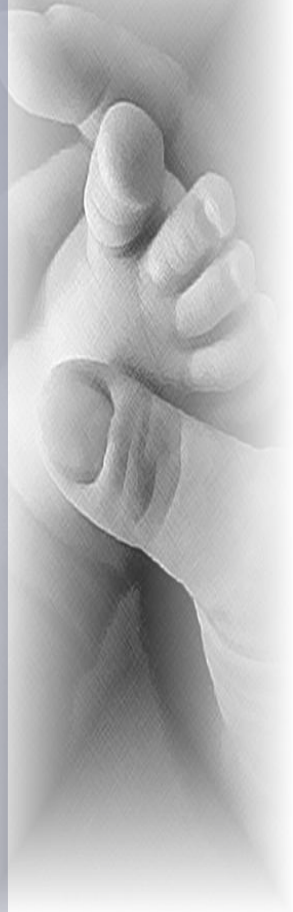
- PDRP-literature review and audit
- Nurses research group and journal club
- Data/sample collection
- Talking with staff/parents about research



Neurological & Psychological Outcomes of VLBW Infants.

Nicola Austin, Carole Spencer

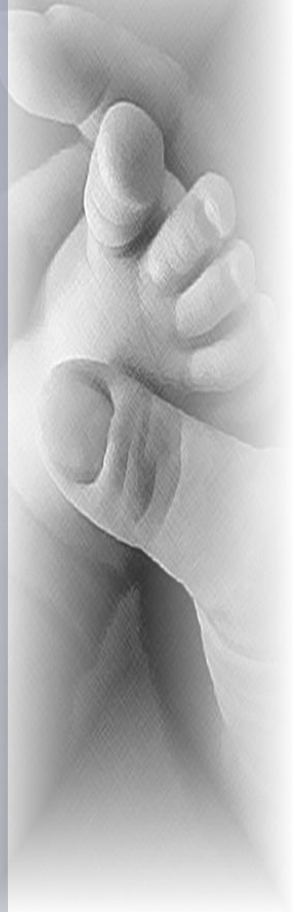
- The aims are to describe the neurologic, cognitive, motor, behavioural and social development of a regional cohort of VLBW (<1500g) children 1998.
- Logitudinal study. From birth till present.2013.
- Compared with a similar sized sample of full term children matched for gender.
- Planning/discussion phase for 16 year follow now underway.



Neurological outcomes of infants exposed to Methadone during pregnancy

Carole Spencer, Nicola Austin, Jill McKie.

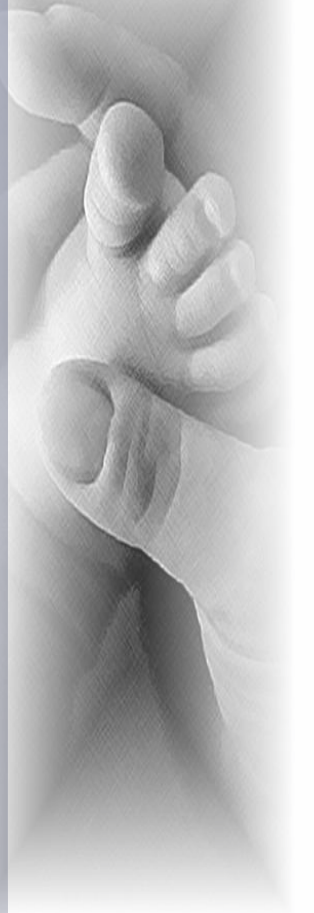
- Aim to study the effect of prenatal methadone exposure on infant's health and development, neurological functioning and cerebral development.
- Recruiting commenced 2003 until November 2008.
- Follow up aimed at 18mths, 24mths, 54mths & 6 years [2013]



BOOST-NZ

Brian Darlow, Trish Graham, Nicki McNeill

- Multi centred randomised controlled trial.
- The aim of the study was to determine if there is any difference in outcome at two years when infants born at less than 28 weeks gestation have their oxygen saturation targeted between 91-95% and 85-89%.
- Aim - 5000 worldwide < 28 weeks gestation
- Recruitment and follow-up complete in NZ
- Completed and to be published BMJ 2013



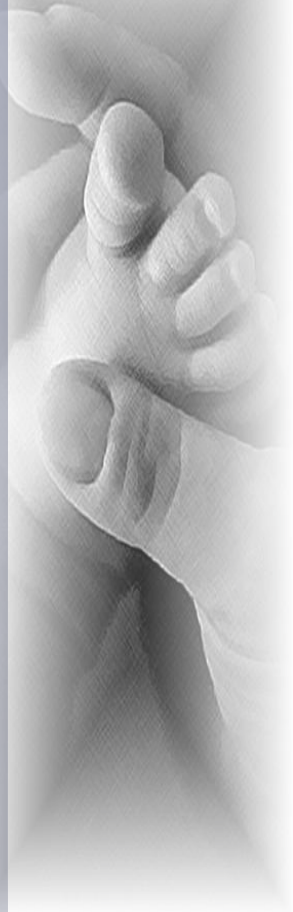
BOOST-NZ MRI

- Nicola Austin, Carole Spencer, Nicki McNeill, Trish Graham, Sarah Harris
- Follow on study which involves an MRI at term on babies who have been part of the BOOST trial, recruitment complete. Data analysis in progress

ProPrems

Nicola Austin, Brian Darlow, Andrew Day,
Nicki McNeill, Trish Graham

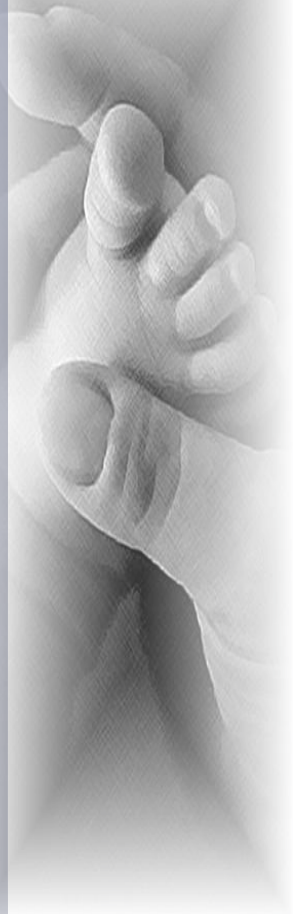
- The aim of this project is to investigate whether adding probiotics to the milk of very premature infants reduces the incidence of serious infections.
- A total of 1150 Australian and New Zealand Babies will be participating in this project, recruitment complete
- Follow up in progress



PARENTAL EXPERIENCES IN THE NEONATAL INTENSIVE CARE UNIT. [NICU]

Nicola Austin, Verena Pritchard, Lianne Woodward,
Carole Spencer

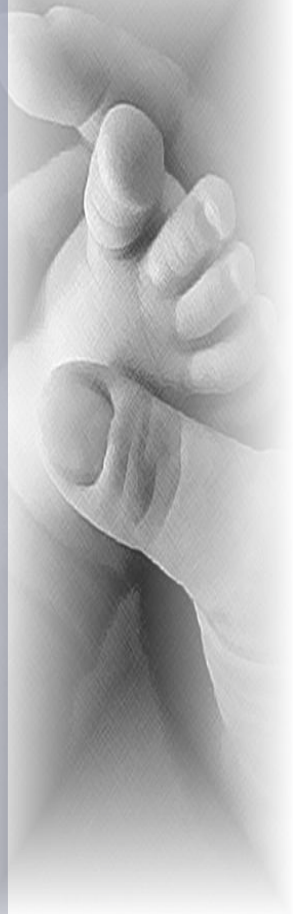
- Christchurch Women's hospital, University of Canterbury.
- The purpose of the study is to learn more about parents' experiences of preterm birth. Approximately 20 mothers and fathers of very preterm infants and 20 mothers of full term infants born between June and December 2010 at Christchurch Women's Hospital will be taking part in the study.
- Stopped due to Christchurch earthquake



SMARTVIP STUDY

Tony Walls, Nicola Austin, Dee Mangin,
Trish Graham

- Safety Monitoring of Adverse Reactions to Tdap Vaccine in Pregnancy
- The purpose of this study is to actively evaluate the safety of this vaccination
- To evaluate if there is protection for the babies in the first few months of life whose mothers received Tdap
- Aim to recruit 300 women and their babies
- Follow up for one year



APTS.

Australian Placental Transfusion Study.2013.

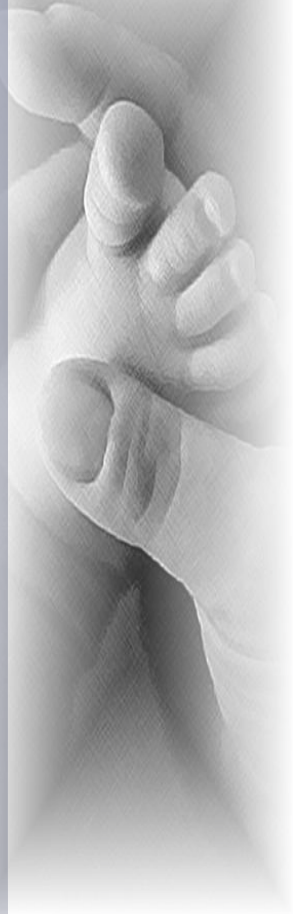
:Delayed cord clamping:

Study Rationale

1. Babies born <30 weeks have 100x greater mortality and morbidity.
2. Placental transfusion may reduce infection and brain injury.

Staff folder APTS in research office NICU.

Contact person Nicola Austin.



BOPP study



BNP & Occult Pulmonary hypertension in Preterms

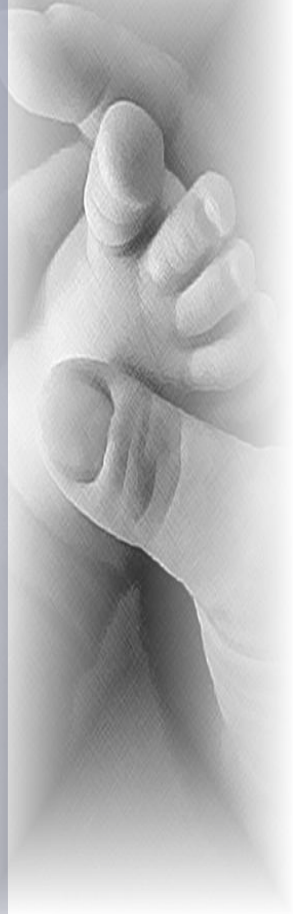
Commenced Feb 2013 (Sarah Harris)

Recruiting < 30 weekers

- Premature birth interrupts the normal pattern of pulmonary vascular development.
- Some preterm infants will develop a dysmorphic pulmonary circulation with pulmonary hypertension associated with increased morbidity and mortality
- Studying BNP as a possible biomarker of rising pulmonary artery pressure

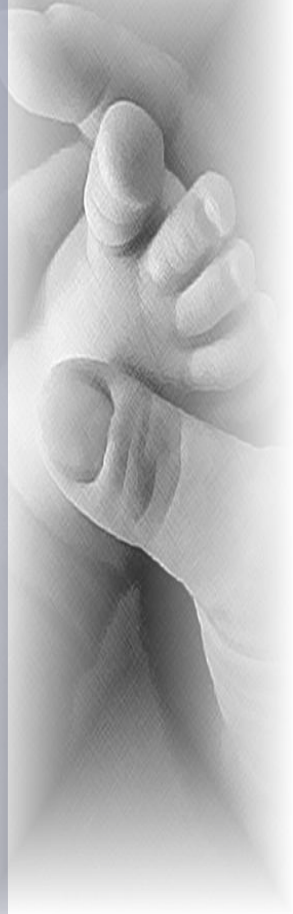
People Involved

- University of Otago.
- University of Canterbury.
- Neonatologists.
- Research nurses.
- Clinical nurses/registrars.
- Monthly Unit Research group.
- Van Der Veer Institute.
- Data collection staff.



Research

- Publications are available if you would like copies please let us know





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