WELCOME:
Professor Adam Jaffe  |  John Beveridge Chair & Head of Discipline
Discipline of Paediatrics, School of Women’s & Children’s Health, UNSW Medicine

CHAIR:
Dr Sean Kennedy  |  Director of Education & Senior Lecturer
Discipline of Paediatrics, School of Women’s & Children’s Health, UNSW Medicine
ILP / Hons Information Evening

Discipline of Paediatrics

Department of Community Child Health
Community Child Health SCHN (Randwick)

Team: (Research, Clinical and Service Delivery)
- Assoc Prof Karen Zwi, Community Paediatrician, Head of CCH Department, karen.zwi@health.nsw.gov.au
- Dr Sue Woolfenden, Community Paediatrician/Conjoint Senior Lecturer, susan.woolfenden@health.nsw.gov.au
- Dr Debbie Perkins, Career Medical Officer
- 2.6FTE Community Child Health Fellows
- Vivian Isaac Population Health Research Officer

Current Research:

Aboriginal Child Health
- La Perouse Community Paediatric Service - Ngala Nanga Mai Parent Group Multiple awards, research and evaluation
- “Study of Environment on Aboriginal Resilience and Child Health” (SEARCH) collaborative research partnership between ACCHSs AH&MRC, Sax, SCHN.

Refugee Health
- First longitudinal study in refugee children in Australia
- Innovative model of nurse led health screening of new migrants in Beverley Hills Intensive English Centre…expanding to Evans, Western Sydney. Awards+++.

Child Development
- Watch me Grow Study in South West Sydney- Birth Cohort of 2025 children monitoring their access to universal services, risk factors for lack of access and developmental vulnerability
- Developing new services with local CALD community in South East Sydney around child development, accessing developmental surveillance and early intervention
Current Research (contd):
Prioritising Vulnerable Children and measuring Inequalities in Child Health
- ARC Discovery Grant. Exploring pathways to developmental inequities
- Prioritization Project
- Ted Knoffs Project in collaboration with UNSW

Child Injury
- NSW Injury Prevention Reference Group – Office of Kids and Families and SCHN (Research & Policy)
- Best practice Guidelines for Injury Prevention in the Australian context
- Preventing Injury to Aboriginal Children and Young People in NSW: Guidelines for Policy and Practice
- Potentially preventable hospitalisations in Aboriginal children across NSW (with Centre for Big Data in Health)
- Buckle-up Safety (with George Institute)

Integrated care
- Asthma project
- Care coordination
- Collaborative research with dermatology around developmental outcomes of their patients
Future Research Projects and Interests:
• Using Child Health Indicators to monitor and address inequities in child health, wellbeing and development at universal and targeted level
• Community led interventions to prevent injury in Aboriginal Child Health Populations
• Intersectoral projects to improve child health at a population level
• Collaboration in International Child Health Research
• Systematic reviews in community child health interventions, diagnosis and prognosis and Cochrane Prognosis Methods Group
• Working with UNSW Centre for Big Data to investigate inequities in child health, investigate modifiable risk factors and translate findings to service delivery and policy
• Adolescent research in partnership with Trapeze

Location of projects:
South East Sydney
South West Sydney
New South Wales
International (Fiji and Cochrane)

Contact Details:
• Associate Professor Karen Zwi;
  karen.zwi@health.nsw.gov.au
• Dr Sue Woolfenden (Conjoint Senior Lecturer)
  susan.woolfenden@sesiahs.health.nsw.gov.au
Paediatric Pain Research Unit, SCH

Supervisors:
- Assoc, Prof David Champion
- Dr Tiina Jaaniste
- Dr Jordan Wood
- Dr Meg Goodison-Farnsworth

Projects Available / Research Areas:

- Pain Measurement: self-report in pre-schoolers (ongoing program of research) – Dr Tiina Jaaniste
  - Self report in young children is poorly understood
  - Devising a simplified self-report pain assessment system for young children: pain intensity + meaning/tolerability

- Paediatric Post-Surgical Discharge Outcomes – Dr Jordan Wood
  - 2016 completing a study evaluating post-discharge outcomes post tonsillectomy and appendicectomy
  - Next step is evaluating information provision prior to discharge

- Paediatric Chronic Pain – A/Prof David Champion, Dr Tiina Jaaniste, Dr Meg Goodison-Farnsworth, Felicity De Blic
  - Somatosensory Testing: establishing the clinical relevance with chronic pain patients of a set of office-based somatosensory tests
  - Possible scope for other studies in chronic pain clinic

- Primary Pain Disorder Research Program – A/Prof David Champion
  - Studies utilising Australian Twin Registry and the RAINE longitudinal database
Nature of Projects / Methodology:

- Qualitative / Quantitative research
- Prospective questionnaires
- Clinical
- Mixed methods

Clinical Exposure

- Students may be invited to attend fortnightly chronic pain clinics and daily acute pain ward rounds with consultants.
- Students will also be invited to take part in monthly research unit multidisciplinary meetings, adult pain weekly journal club and weekly hospital grand rounds.
- Students who show initiative and aptitude may have the opportunity to present their results at a conference or submit their results for journal publication.

Time Commitment:

- ILP Students will be expected to commit 25 hours to their research each week (minus attendance at gen-ed courses).
- Hons Students will be expected to commit 35 hours to their research each week.
- Students will be expected to attend all scheduled UNSW Medicine mentor sessions and lectures.
- Students will be expected meet with their supervisor / co-supervisor once a week for one hour.
- Pain Clinic and Research Meetings take place on Mondays.
- Other time commitments are more varied throughout the week depending on the project.

Location of projects:
Sydney Children’s Hospital

Contact Details:
Dr Tiina Jaaniste
Tiina.jaaniste@health.nsw.gov.au
Projects available / research areas:

- All psycho-social/behavioural aspects of paediatric/adolescent cancer, from diagnosis to survivorship and bereavement

Examples:

- Psychosocial impact of hereditary cancer and cancer genetics in paediatrics
- Impact of cancer on educational outcomes for children
- Providing decision support for parents considering nutrition therapy for their children
- Assessing health literacy in adolescents with cancer
- Examining the relationships between neurocognitive, social cognitive skills and peer relations after paediatric, adolescent and young adult cancer
- Investigating the relationship between long term survivors and their GP
- Parent use of social media.
Looking for 5-6 ILP/Honours total across all supervisors

Nature of projects / methodology:
• Qualitative and quantitative research.
• Questionnaires/phone interviews/development of patient resources.

Clinical exposure and research training and support:
• All ILP students invited to attend weekly clinics with Prof Richard Cohn.
• Students will also be invited to take part in departmental journal club and weekly hospital grand rounds.
• All students complete 10 module BSU training program (ethics, research methods, difficult conversations, lit reviews).
• All students allocated two supervisors, plus a mentor (young researcher to provide additional day-to-day support, advice and training.
• All past ILP projects have been published (n=13 manuscripts).

Time commitment:
• ILP students need to submit a writing sample before being interviewed.
• ILP students will be expected to commit 25 hours to their research each week.
• Hons students will be expected to commit 35 hours to their research each week.
• Students will be expected meet with their supervisor/co-supervisor and mentor once a week for one hour.

Location of projects:
• Sydney Children’s Hospital/Westmead/Lowy building at UNSW

Contact details:
A/P Claire Wakefield
c.wakefield@unsw.edu.au
ILP / Hons Information Evening
Discipline of Paediatrics

ILP Projects with the FUTuRE Fertility Study Research Team For 2017
Future Fertility Research Group

Supervisors:

- **Dr Antoinette Anazodo**: Paediatric and Adolescent Oncologist, Director of the Sydney Youth Cancer Service, Lead Clinician for Youth Cancer NSW/ACT, Chief Investigator Future Fertility Research Program
- **Dr Shanna Logan**: Clinical Psychologist Future Fertility Study
- **Mrs Brigette Gerstl**: National Manager Future Fertility study
- **Ms Eden Robertson**: PhD candidate

Projects Available:

- An evaluation of the first 10 years of the Reproductive Survivorship Clinic
- Fostering and adoption in survivors of cancer therapy in Australia
- Psychological health help-seeking behaviour and its relationship to reproductive concerns in a) AYA patients and b) childhood cancer survivors
- The influence of culture/ethnic identity on reproductive concerns in adolescent cancer patients
- Reproductive concerns of Indigenous Cancer patients
Nature of Projects / Methodology:

• Qualitative / Quantitative research
• Retrospective chart reviews
• Prospective questionnaires
• Mixed methods

Clinical Exposure

• Students who show initiative and aptitude may be invited to attend weekly clinics with the supervisor
• Students will also be invited to take part in departmental journal club and weekly hospital grand rounds.
• Students will have access to numerous training programs and opportunities within the Kids Cancer Centre, Sydney Children’s Hospital

Time Commitment:

• ILP Students will be expected to commit **25 hours** to their research each week
• Hons Students will be expected to commit **35 hours** to their research each week
• Students will be expected to attend all scheduled UNSW Medicine mentor sessions and lectures.
• Students will be expected meet with their supervisor / co-supervisor once a week for one hour

Location of projects:

• Kids Cancer Centre, Sydney Children’s Hospital

Contact Details:

Mrs Brigette Gerstl
Brigitte.Gerstl@health.nsw.gov.au
Paediatric Gastroenterology

Supervisors:
- Conjoint Associate Professor Daniel Lemberg
- Dr Usha Krishnan
- Dr Steven Leach

Projects Available / Research Areas:
- Inflammatory Bowel Disease
- Functional Bowel Disorders (IBS and functional dyspepsia)
- Eosinophilic esophagitis
- Inflammatory and Disease markers
- Gastrointestinal Motility
- Oesophageal Atresia/Tracheoesophageal fistula
- Complications of gastroesophageal reflux disease
- Quality of life in complex GI disorders
- Intestinal microbiology
- Nutrition and nutritional therapies
Nature of Projects / Methodology:

- Qualitative / Quantitative research
- Retrospective chart reviews
- Prospective questionnaires
- Laboratory-based
- Clinical
- Mixed methods

Clinical Exposure

- Students will be invited to attend weekly clinics and endoscopy sessions with the supervisor.
- Students will also be invited to take part in departmental journal club and weekly hospital grand rounds.

Time Commitment:

- ILP Students will be expected to commit 25 hours to their research each week (minus attendance at gen-ed courses).
- Hons Students will be expected to commit 35 hours to their research each week.
- Students will be expected to attend all scheduled UNSW Medicine mentor sessions and lectures.
- Students will be expected to attend weekly research meetings that are attended by their supervisors and other research students

Location of projects:

- Sydney Children’s Hospital

Contact Details:

A/P Lemberg (daniel.lemberg@health.nsw.gov.au)
Dr Krishnan (Usha.krishnan@health.nsw.gov.au)
Dr Leach (s.leach@unsw.edu.au)
Nephrology Department

Supervisors / Co-Supervisors:

• Dr Sean Kennedy – s.kennedy@unsw.edu.au
• Dr Fiona Mackie – fiona.mackie@health.nsw.gov.au
• Dr Hugh McCarthy – hugh.mccarthy@health.nsw.gov.au
• Dr Leah Krishock – on maternity leave for 2017.

Research Areas / Projects Available:

Paediatric Transplantation:

• ‘CMV, EBV and BK viraemia in paediatric kidney transplant recipients.’
  Student: Bernadette Cameron

• ‘Review of Protocol Biopsies after Paediatric Kidney Transplantation’
  Student: Edward Rose

• New project for 2017:
  ‘Predicting requirement for blood transfusions after transplantations.’
General Nephrology:

• ‘Levamisole use in childhood Nephrotic Syndrome.’
  Student: Pasan Pannila

• **New project for 2017:**
  ‘Outcomes for Congenital Nephrotic Syndrome.’

• **New project for 2017:**
  ‘Aetiology of Kidney Stone Disease in Children.’

Adolescent Nephrology:

• ‘Preparedness For Transition In Adolescents With Chronic Medical Conditions.’
  Student: Lorena Zhang

• **New project for 2017:**
  ‘Optimising Renal Care in Adolescents (ORCA).’

Location of projects:

• Sydney Children’s Hospital
Paediatric Diabetes & Endocrinology
Viruses and Diabetes Research Group

Supervisors:
- Professor Maria Craig – Paediatric Endocrinologist SCHN and St George
- Dr Ki Wook Kim – Post-doctoral scientist
- Professor Bill Rawlinson – Senior Medical Virologist
- Professor Kim Donaghue — Paediatric Endocrinologist SCHN

Projects Available / Research Areas:
- Role of viruses in the pathogenesis of type 1 diabetes: the ENDIA study
- The epidemiology of childhood diabetes: type 1, type 2, cystic fibrosis related diabetes and monogenic diabetes
- Longitudinal outcomes for young people with type 1 diabetes: the Australasian Diabetes Data Network (ADDN)
- Epidemiology and risk factors for diabetes complications (retinopathy, neuropathy, nephropathy, mortality)
- Clinical and genetic spectrum of multiple endocrine disorders – type 1 diabetes, coeliac, thyroid, adrenal, pituitary
- Endocrine complications of thalassaemia and transfusion dependent disorders
- Growth disorders in childhood – outcomes of growth hormone treatment
- Long term outcomes of congenital CMV infection

Links to projects and research
endia.org
virologyresearch.unsw.edu.au
staging.addn.org
Nature of Projects and Research Methods:

- Clinical research – birth cohort studies (ENDIA), diabetes complications and autoimmune disease
- Quantitative research using established disease registers – analysis of longitudinal data and linkage
- Laboratory-based research (viruses and diabetes, CMV)

Clinical Exposure

- Opportunity to attend endocrine/diabetes clinics with supervisor
- Attendance at clinical visits (ENDIA study, diabetes complications, transfusion dependent disorders)
- Weekly clinical and laboratory meetings
- Monthly endocrine meetings
- Presentation of research at national/international subspeciality meetings (eg APEG, ADA)

Time Commitment:

- ILP Students expected to commit 25 hours to their research /week (minus attendance at gen-ed).
- Hons Students will be expected to commit 35 hours to their research each week.
- Students will be expected to attend all scheduled UNSW Medicine mentor sessions and lectures.
- Students will be expected meet with their supervisor / co-supervisor once a week for one hour

Location of projects:

- Virology Research Laboratory, POWH
- Children’s Hospital at Westmead
- St George Hospital

Contact Details:

- Prof Maria Craig m.craig@unsw.edu.au
- Dr Ki Wook Kim k.w.kim@unsw.edu.au
- Prof Bill Rawlinson w.rawlinson@unsw.edu.au
Why are more children getting Type 1 Diabetes?

The ENDIA study

The Environmental Determinants of Islet Autoimmunity (ENDIA) study is finding out what causes Type 1 Diabetes so we can find ways to prevent it.

Viral pathogenesis and transplacental transmission
Congenital CMV

Supervisors:
• Professor Bill Rawlinson – Senior Medical Virologist
• Dr Wendy van Zuylen – Postdoctoral scientist
• Dr Stuart Hamilton – Postdoctoral scientist
• Prof Manfred Marschall – University of Erlangen

Projects Available / Research Areas:
• Australian Paediatric Surveillance Unit (APSU) National Congenital CMV studies
• Long term outcomes of congenital human cytomegalovirus infection
• Transplacental transmission of human cytomegalovirus in a placental explant model
• Pathogenesis of transplacental transmission through protein dysregulation
• Novel antivirals for congenital CMV infection
• Antiviral resistance and ganciclovir levels in renal transplantation

Links to projects and research
virologyresearch.unsw.edu.au
Nature of Projects and Research Methods:

- Clinical research
- Laboratory-based research
- National and international guidelines for diagnosis and assessment of pregnant women and neonates

Clinical Exposure

- Opportunity to attend congenital infection clinics at RHW and SCH
- Weekly clinical and laboratory meetings
- Fortnightly Virology Research Seminars
- Presentation of research at national/international meetings
- Potential visits to international collaborators in Limoges France and Erlangen Germany

Time Commitment:

- ILP Students expected to commit 25 hours/week (minus attendance at gen-ed).
- Hons Students will be expected to commit 35 hours/week.
- Students will be expected to attend all scheduled UNSW Medicine mentor sessions and lectures.
- Students will meet with their supervisor/co-supervisor once a week for one hour and with the research group for another hour.

Location of projects:

- Virology Research Laboratory, POWH
- Clinical research of novel diagnostics and therapies
- Laboratory-based research on characterisation of congenital infections
- National and international guidelines for diagnosis and assessment of pregnant women and neonates

Contact Details:

- Dr Wendy van Zuijlen  Wendy.VanZuijlen@health.nsw.gov.au
- Dr Stuart Hamilton  Stuart.Hamilton@health.nsw.gov.au
- Prof Bill Rawlinson  w.rawlinson@unsw.edu.au

Location: POWH
HEARTS AND MINDS

Medical Psychology Research Program

Australia’s first integrated clinical psychology service & research program dedicated to childhood heart disease.

Supervisors
A/Prof Nadine Kasparian
A/Prof Gary Sholler
Dr Michelle McEluuff

Mentors
Laura Mitchell
Claudia Nielson-Jones
Dianne Swinsburg

Fun, committed, supportive multidisciplinary team of researchers and clinicians.

heart centre for children
the children’s hospital at Westmead
HEARTS AND MINDS
Projects Available in 2017

- Examining **health and well-being** in children and parents with rare congenital and genetic cardiac conditions.

- **Wet lab**-based projects investigating the relationship between maternal pregnancy-related anxiety after fetal cardiac diagnosis and biomarkers of stress reactivity.

- Exploring children’s and parents’ perceptions of and responses to **genomic sequencing**.

- **Needs assessment and modelling** of psychological services for adults with congenital heart disease.

- Analysis of **psychology sessions** for melanoma patients at very high risk of developing new primary disease.

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**Discovery**

**New Technology**

**New Interventions**

**Translation**

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BEATING heart DISEASE IN KIDS
METHODOLOGIES:
- Qualitative: In-depth interviews, analysis of parent-child interaction.
- Developmental assessments: BSID, CARE-Index, Strange Situation Procedure.
- Bio-behavioural assessments: Biomarkers of stress reactivity.
- Development and evaluation of new resources and health services.
- Meta-analyses and systematic reviews.
- Health service audits, including economic analyses.

CLINICAL EXPOSURE:
- Fetal clinics
- Paediatric clinics and IAC
- Cardiac rounds (NICU, PICU, ESW, HCfC)
- Psychosocial rounds

TIME COMMITMENT:
- ILP: At least 25 hrs/wk research
- Hons: 35 hrs/wk research
- Lectures, workshops, hospital rounds, presentations
- Weekly supervision for one hour and mentoring
- Professional development and training

LOCATION:
- The Children’s Hospital at Westmead
- Sydney Children’s Hospital

Contact: n.kasparian@unsw.edu.au
Projects Available / Research Areas:
- Pain Capillary Refill Time Modification in Neonates – the PACMaN Study
- Standards for Telemedicine: Image Resolution and Compression – the STIR-C Study
Fairfield Paediatrics Department

Nature of Projects / Methodology:

• Pain Capillary Refill Time Modification in Neonates – the PACMaN Study
  – Capillary Refill Time is used as a semi-quantitative sign to assess shock
  – There is poor validation of CRT, especially in the presence of pain
  – The PACMaN study will use video to determine if it changes CRT after cannulation
  – Study type: Randomised controlled trial, clinical
  – Status: Ethics cleared, awaiting commencement

• Standards for Telemedicine: Image Resolution and Compression – the STIRC Study
  – There is widespread use of photographs in diagnosis, including in burns
  – There is no published evidence-base to inform minimum standards for photographs
  – The STIRC Study will use randomised images of different compression and resolution to determine the minimum requirements of each in the accuracy of diagnosis of burn extent and depth
  – Study Type: Randomised controlled trial, clinical
  – Status: Submission to Quality Improvement
Conduct of Projects
- Initial literature review.
- Study concepts, design and methodology
- Conduct of study protocol, data collection, statistical methodology
- Preparation of work for publication

Clinical Exposure*
- Students may participate in the regular paediatric education offered by the Fairfield Paediatrics Department
  - Journal Club
  - Case presentations
  - Mortality and Morbidity rounds/Quality rounds
  - In-hospital sessions, courses
- Students may attend clinical sessions, though students undertaking paediatric rotations will have priority

Time Commitment:
- ILP Students will be expected to commit 25 hours to their research each week (minus attendance at gen-ed courses).
- Hons Students will be expected to commit 35 hours to their research each week.
- Students will be expected to attend all scheduled UNSW Medicine mentor sessions and lectures.
- Students will be expected meet with their supervisor/co-supervisor once a week for one hour.

Location of projects:
- Neonatal Ward, Fairfield Hospital
- Paediatric Ambulatory Care, Fairfield Hospital
- Burns Unit, Children's Hospital at Westmead

Contact Details:
Dr Nicholas Cheng
nicholas.cheng@ss wahs.nsw.gov.au

* Priority will be given to ILP/Hons Project/general education coursework. Society and Health and Paediatric students will be given priority for regular paediatric education.
ILP / Hons Information Evening

Discipline of Paediatrics
Sub-specialty - Neonatology
NSW Pregnancy & newborn Services Network (PSN)

Supervisors:
Dr Robert Guaran
Dr Lynn Sinclair

Current Research:
“My ILP year has been invaluable. It has taught me the importance of research and research skills in the clinical environment. My experience included presenting at:
• PSANZ/IMPACT Workshop
• NeoPaed Conference and attending:
• Australian Clinical Trials Alliance Symposium
• Royal Australian College of Physicians EVOLVE Forum
The POD Study has shown me the importance of patient-centred care, and the absolute priority of involving patients and their families in shared decision-making regarding their health.”
Location of projects:
PSN (Westmead Campus)
Liverpool Hospital

Contact details:
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l.sinclair@unsw.edu.au