

LANE STRATHEARN, MBBS FRACP

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QUALIFICATIONS / TRAINING:

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| 2003 | Appointed Research Fellow, Human Neuroimaging Laboratory, Baylor College of Medicine, Houston, Texas. |
| 2002 | Admitted as Fellow of the Royal Australasian College of Physicians – Division of Pediatrics and Child Health, with sub-specialty qualifications in Developmental Pediatrics. |
| 2002 | Appointed as Instructor, Baylor College of Medicine, Houston, Texas. |
| 2000 | Appointed as Associate Lecturer, University of Queensland, Australia. |
| Sep 19, 2000 | ECFMG requirements permanently validated |
| 1998 | Completed board examinations in specialty pediatrics for the Royal Australasian College of Physicians. |
| June 15, 1995 | Completed United States Medical Licensing Examination (USMLE) Step 1 |
| July 14, 1993 | Completed ECFMG Step 1 exam |
| 1992 | Bachelor of Medicine / Bachelor of Surgery, University of Queensland. |

PROFESSIONAL ORGANIZATIONS:

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| 2002 - | Member of the Society for Neuroscience |
| 2000 | Member of Pediatric Research Society of Australia and New Zealand. |
| 1998 -2001 | Member of APSAC (American Professional Society on the Abuse |

of Children).

- 1997 - Member of ISPCAN (International Society for Prevention of Child Abuse and Neglect).
- 1994 - Royal Australasian College of Physicians – Division of Pediatrics and Child Health. Also member of Chapter of Community Child Health.

EMPLOYMENT HISTORY:

2001 to present **TEXAS CHILDREN'S HOSPITAL / BAYLOR COLLEGE OF MEDICINE**

Houston, Texas, U.S.A.

As a 456-bed, internationally recognized full-care pediatric hospital, it is the largest pediatric hospital in the US, and is associated with Baylor College of Medicine.

Fellow in Developmental Pediatrics

- Involves the developmental assessment, diagnosis and management of children with developmental disabilities
- Researching the impact of child neglect on neurodevelopmental outcomes (see below)

1994 to 2000 **MATER MISERICORDIAE CHILDRENS' HOSPITAL**
South Brisbane, Queensland, Australia.

Major teaching and tertiary referral hospital for Queensland and northern New South Wales, Australia.

Pediatric Resident (1995 to 1998, 2000)

Clinical experience and responsibilities for teaching in:

- General Pediatric Medicine (20 months)¹
- Child Protection (14 months)
- Emergency Medicine (3 months)
- Pediatric Intensive Care (4 months)
- Hematology / Oncology (4 months)
- Cardiology, including Intensive Care (8 months)
- Neonatology, including NICU (16 months)
- Gastroenterology
- Endocrinology

Fellow in Child Protection and Neurodevelopment (1999)

Responsibilities and achievements have included:

- Participation in multi-disciplinary team to plan and coordinate child protection interventions, working with CPS officers, police and educational representatives
- Participation in ex-premature infant Growth and Development Clinic and Developmental Pediatrics Clinic
- Assisted in organization of Developmental Pediatrics Training

¹ General Pediatrics training often concurrent with subspecialty rotations

Program

- Initiation of Child Protection Mortality and Morbidity Meetings, involving clinicians, forensic and histo-pathologists, radiologists, ophthalmologists and ICU consultants
- Coordination of training sessions for consultants, emergency department and pediatric trainees, and medical students
- Conducting on-call interviews and assessments of children with child protection concerns
- Experience providing expert testimony in court
- Proficiency in the use of video colposcopy
- Attendance at 4-day training programme, “Medical Assessment of Child Sexual Abuse” in Adelaide, South Australia.

Chief Pediatric Resident (1999)

Responsibilities include:

- Coordination of training program for pediatric residents and fellows, including journal club, case presentations and radiology meetings
- Organization of Clinical Examination for the Royal Australasian College of Physicians (Pediatrics) at the Mater Children’s Hospital
- Serving on Post-Graduate Education Committee to liaise between trainees and hospital administration.

Pediatric Junior House Officer (1994)

Experience included Pediatric surgery, medicine, and emergency medicine.

1993

REDCLIFFE HOSPITAL

Redcliffe, Queensland, Australia

Internship, including training in pediatrics, adult medicine and surgery, anesthesiology and emergency medicine.

RESEARCH GRANTS

2003	\$675 000	Awarded 5-year Mentored Patient-Oriented Research Career Development Award (K23) by the National Institute of Health. Project entitled: “A Functional MRI Study of Mother-Infant Attachment”.
Dec 2001 – Mar 2002	\$4800	Funded by the Development Council Research Fund of Texas Children’s Hospital for a pilot study: “Neuroendocrine Responses to Mother-Infant Interaction: A Study of Oxytocin Reactivity and Functional MRI”.
Jul – Dec 2000	\$27 000 (\$AU)	Funded by Families, Youth and Community Care Queensland for research entitled: “The Long-term Effects of Child Abuse and Neglect on Adolescents at 14 Years”.

RESEARCH / PUBLICATIONS:

- 2003 Strathearn L. Long-term Cognitive Function in Very Low-Birth-Weight Infants [letter]. *JAMA*. 289(17) May 7 2003:2209.
- 2000-2003 “Predictors and Outcomes of Child Abuse and Neglect: A 14-Year Longitudinal Study.” This links data from the “Mater-University Study of Pregnancy” with child maltreatment notifications, as part of a Ph.D. project.
- Awarded \$28000 for 6 months full-time research as a Ph.D. Research Fellow, University of Queensland, July – Dec 2000.
 - Report of findings presented to senior Queensland Government officials, 15 January 2001.
 - “Child Maltreatment and Cognitive Development: A 14-Year Prospective Study.” Poster presentation at Baylor College of Medicine Fellow’s Day, March 2001.
 - “Child Neglect, Cognitive Development and Head Growth: A 14-Year Prospective Study.” Presented in a 1 hour research session of the 9th Annual National Colloquium of the American Professional Society on the Abuse of Children, Washington DC, July 2001.
 - “Is Breastfeeding Protective Against Child Abuse and Neglect? The Biology of Nurturance Explored.” Presented at the 14th International Congress on Child Abuse and Neglect. Denver, Colorado. July 2002.
 - “A 14-year Longitudinal Study of Child Neglect: Cognitive Development and Head Growth.” Presented at the 14th International Congress on Child Abuse and Neglect. Denver, Colorado. July 2002.
 - “Breastfeeding, Abuse and the Maternal Brain: The Biology of Nurturance Explored” and “A 14-Year Longitudinal Study of Child Neglect: Cognitive Development and Head Growth.” Presented at the San Diego Conference on Child Maltreatment. San Diego, California, Feb 2003.
 - “Breastfeeding and Mother-Infant Separation: Independent Predictors of Child Abuse and Neglect.” Poster and platform presentations at the American Academy of Pediatrics National Conference. New Orleans, Louisiana, Nov, 2003.
- 2002 Strathearn L, McClure SM. A Functional MRI Study of Maternal Responses to Infant Facial Cues. Program No. 517.5. 2002 *Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2002. Online.
- Platform presentation at the Annual Scientific Meeting of the Society for Neuroscience, Orlando, Florida, Nov. 2002.
 - Poster presentations at the Baylor College of Medicine Fellow’s Day, Apr 5, 2002 and Clinical Investigator Research Symposium, May 2002
 - Research cited in *Nature* Vol 416, Feb 28, 2002, p 364.

1999 - 2001

Strathearn L, Gray PH, O’Callaghan MJ, Wood DO. Childhood Neglect and Cognitive Development in Extremely Low Birth Weight Infants: A Prospective Study. *Pediatrics*. 108(1) July 2001:142-151.

- Awarded 2nd prize at the Annual Scientific Meeting of Advanced Trainees of the Royal Australasian College of Physicians, Sep 1999
- Abstract chosen as the “President’s Selection,” for presentation in a plenary session of the Annual Scientific Meeting of The Perinatal Society of Australia and New Zealand, Mar 2000
 - Received “New Investigator” Award
- Presented Pediatric Grand Rounds, Mater Children’s Hospital, Brisbane, Australia, Feb. 2000: “Neurodevelopmental Outcomes in Extremely Low Birth Weight Infants: Nature Vs. Nurture Revisited”
- Neonatology Grand Rounds, Mater Mothers’ Hospital, Apr. 2000: “Cognitive Development in ELBW Infants: Adverse Effects of Child Maltreatment”
- Findings presented to senior government officials, including the Director-General of Families, Youth and Community Care Queensland, and Deputy-Director of Queensland Health, Feb & Apr 2000.
- Presented in a plenary session of the Annual Scientific Meeting of the Royal Australasian College of Physicians, Adelaide, South Australia, May 2000
- Presented at the Congress on Child Abuse and Neglect of the International Society on Prevention of Child Abuse and Neglect (ISPCAN), Durban, South Africa, October 2000.
- Presented at the State Conference of the Society for Infant Mental Health, Queensland, August 2000.
- Presented at the Inaugural National Conference on “The Critical Early Childhood Years: Rethinking Current Interventions and Strategies”, Melbourne, Victoria, Nov 2000.
- Presented at the San Diego Conference on Child Maltreatment, Children’s Hospital – San Diego, January 2001.
- Research reported in “New Scientist,” Apr 1, 2000
- Presented “Cognitive Neurodevelopmental Outcomes in Extremely Low Birth Weight Infants” at Neonatal Meeting, Texas Children’s Hospital, Oct 19, 2001.

1999 - 2001

Prepared research proposal for a clinical fellowship with Baylor College of Medicine / Texas Children’s Hospital, entitled “The Effects of Childhood Neglect on Brain Development: A Cross-sectional Study Using Structural MRI and Spectroscopy”

- Awarded a Pediatric Travelling Fellowship by the Royal Australasian College of Physicians, Sep 1999.

- 1999 Strathearn L. A Review of Non-accidental Injury in the Preterm Infant: Prediction and Prevention. Proceeding of the 7th Australasian Conference on Child Abuse and Neglect; 1999 Oct 17-20; Perth, Western Australia. Perth: Promaco; 1999.
- Awarded United Medical Protection Conference Prize of \$1000, one of three awarded throughout Australia and New Zealand
 - Abstract accepted for presentation at the 1999 Regional European Conference of the International Society for the Prevention of Child Abuse and Neglect.
- April & May 1998 Presented Neonatal Grand Rounds and a Clinical Meeting on “Non-accidental Injury in the Preterm Infant”, including case presentation and literature survey, Mater Mothers’ Hospital.

COURSES / ADDITIONAL TRAINING

- 2003 Currently attending “Integrative Neuroscience I” course at Baylor College of Medicine/ Rice University.
- 2001 Completed Research Ethics Training Program, in accordance with NIH guidelines, at Baylor College of Medicine.
- 2000 Completed training course in SPSS statistical analysis program, University of Queensland, Australia.
- 2000 SP802 Introduction to Biostatistics subject completed with ‘A+’ grade awarded, University of Queensland.
- 1999 Pediatric Life Support Course completed.
- 1998 Clinical Methods and Evidence Based Care Course completed.

COMMUNITY WORK:

- 2003 Invited speaker at the Sixth Annual Texas Breastfeeding Summit and Conference to be held October 27-29, 2003, Austin, Texas.
- 2002 Invited speaker at the 2002 WIC (Women, Infants and Children) State Meeting, Austin, Texas: “Is Breastfeeding Protective Against Child Abuse and Neglect? The Biology of Nurturance Explored.”
- 2000 Keynote speaker at state conference of the Australian Family Association, addressing “The Long-term Effects of Child Abuse and Neglect: How de we break the cycle?”
- 1996 Public address on “Prevention of Child Abuse: Community & Individual Responsibility” at Seminar, attended by around 150 people.

- 1994 Organizer of Community Domestic Violence Awareness Seminars for the International Year of the Family, at two venues.
- 1993 – 1994 Organizer of Community Child Protection Seminars, attended by hundreds of health professionals, juvenile aid representatives and community members in three separate locations.
- July 1993
& 1994 Organizer of “Redcliffe City Family Week” involving numerous community and government organizations, aimed at promoting and strengthening the family.
- Sept 1993 One hour presentation at Community Seminar on “Preventing & Responding to Child Abuse”, organized by the Blue Nursing Organization.

BIBLIOGRAPHY

- Strathearn L. Long-term Cognitive Function in Very Low-Birth-Weight Infants [letter]. *JAMA*. 289(17) May 7 2003:2209.
- Strathearn L, Gray P, O'Callaghan MJ, Wood D. Childhood Neglect and Cognitive Development in Extremely Low Birth Weight Infants: A Prospective Study. *Pediatrics*. 108(1) July 2001:142-151.
- Strathearn L. A Review of Non-accidental Injury in the Preterm Infant: Prediction and Prevention. *Proceeding of the 7th Australasian Conference on Child Abuse and Neglect*; 1999 Oct 17-20; Perth, Western Australia. Perth: Promaco; 1999.

ABSTRACTS

- Strathearn L, O'Callaghan MJ, Najman J, Williams G, Bor W, Anderson M. Breastfeeding and Mother-Infant Separation: Independent Predictors of Child Abuse and Neglect. (Abstract) *National Conference of the American Academy of Pediatrics*. New Orleans, Louisiana, Nov, 2003.
- Strathearn L, McClure SM. A Functional MRI Study of Maternal Responses to Infant Facial Cues. Program No. 517.5. *2002 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2002. Online.
- Strathearn L, O'Callaghan MJ, Najman J, Williams G, Bor W, Anderson M. Child Neglect, Cognitive Development, and Head Growth: A 14-year Prospective Study. (Abstract) *Annual Colloquium of the American Professional Society on the Abuse of Children*. Washington DC, July 2001.
- Strathearn L, Gray PH, O'Callaghan MJ, Wood DW. Cognitive Neurodevelopment in Extremely Low Birth Weight Infants: Adverse Effects of Childhood Neglect. (Abstract) *Abstracts of the Annual Scientific Meeting of the Royal Australasian College of Physicians*. Adelaide, Australia, May 2000.
- Strathearn L, Gray PH, O'Callaghan MJ, Wood DW. Cognitive Neurodevelopment in Extremely Low Birthweight Infants: Nature Vs. Nurture Revisited. (Abstract) *Abstracts of the Annual Scientific Meeting of the Perinatal Society of Australia and New Zealand*. Brisbane, Australia, March 2000.