

Curriculum Vitae

Associate Professor Sarath Ranganathan

MB ChB MRCP FRCPCH FRACP PhD

Personal Details

Name	Sarath RANGANATHAN
Nationality	British and Permanent Resident of Australia
Age	45
DOB	1 st March 1967
E-mail	sarath.ranganathan@rch.org.au
Telephone	Office: +61393455818 Mobile: +61401629770
Board registrations	Aus MPS360448 General Medical Council, UK 3496310
University Education	Sheffield University Medical School, UK 1985-1990 MB ChB, 1990
Postgraduate Qualifications	Member of the Royal College of Physicians, London MRCP UK , June 1994
Research	PhD , University College, University of London, awarded 2003 for thesis entitled ' Lung Function in Infants with Cystic Fibrosis: Findings at Diagnosis and Changes with Time '
Memberships	Fellow of the Royal College of Paediatrics and Child Health, UK FRCPCH (2006) Fellow of the Royal Australian College of Physicians, Australia FRACP (2007) Member of the American Thoracic Society Member of the European Respiratory Society Member of the Australasian Paediatric Respiratory Group Member of the Thoracic Society of Australia and New Zealand

PRINCIPLE APPOINTMENT

20.09.12 –

**DIRECTOR OF RESPIRATORY MEDICINE
Royal Children's Hospital, Melbourne**

CONJOINT RESPONSIBILITIES

- **CONSULTANT IN RESPIRATORY MEDICINE, Royal Children's Hospital, Melbourne**
- **ASSOCIATE PROFESSOR, University of Melbourne Department of Paediatrics**
- **HEAD, Respiratory Group, Infection and Immunity, Murdoch Children's Research Institute**
- **HEAD, Tuberculosis Clinic, Royal Children's Hospital, Melbourne**
- **CHAIR, Joint American Thoracic Society /European Respiratory Working Group for Infant and Pre-school Pulmonary Function**
- **PRINCIPLE INVESTIGATOR and DIRECTOR, Australian Respiratory Early Surveillance Team for Cystic Fibrosis**

GENERAL SUMMARY

Since electing to sub-specialise in respiratory medicine my posts in this discipline have been in units with international reputations. My specialist training was undertaken at the Royal Brompton, Great Ormond Street and the Queen Elizabeth Hospitals in London. I took up my first consultancy in paediatric respiratory medicine at the Royal Children's Hospital, Melbourne, Australia, in 2004. The Royal Children's Hospital Melbourne is one of the world's leading paediatric hospitals. It provides an unparalleled opportunity to strive for clinical excellence and develop pioneering clinical practice and research. For example, in this post I described **the first ever use of Endobronchial Ultrasound with Transbronchial Needle Aspiration in a child (see bibliography)**. I returned to the UK in 2008 to take up an academic position as Senior Lecturer in Paediatrics and to develop skills in teaching and education before resuming my post in Melbourne in November 2010.

ACADEMIC SUMMARY

- More than 90 research publications (46 as first or senior author)
- 56 research publications in past five years since 2007
- Publications in high-impact journals (e.g. 11 publications, 8 as first or senior author, in the *American Journal of Respiratory and Critical Care Medicine*: ranked 1/46 respiratory journals with impact factor > 11.08; 1 publication in the *Lancet* as first author impact factor 32.498)
- *h*-index of 17; normalised *h*-index of 1.4 (calculated from ISI Web of Knowledge, Dec 2011)
- More than \$5 million raised by myself with collaborators in peer review grants and donations
- Served on Editorial board of the *American Journal of Respiratory and Critical Care Medicine*
- 10 plenary lectures at international conferences and more than 35 presentations to academic meetings all over the world
- 7 visiting 'Professorships': to Berne, Switzerland; Seattle, USA; London, UK; Perth, Aus; Indianapolis, USA; Stanford University, USA, Texas Children's Hospital, USA. These were to give talks and provide expert advice on research innovations at these centres.

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- Referee for more than 15 academic and clinical journals
- Chair of the Paediatric Curriculum Committee, Thoracic Society of Australia and New Zealand/Royal Australasian College of Physicians – Respiratory Medicine Advanced Training Curriculum published 2011

MEASURES OF ESTEEM

CURRENT:

- Chair of the Joint American Thoracic Society /European Respiratory Society Working Group for Infant and Pre-school Pulmonary Function (since 2011)
- Member of the Research Advisory Committee of the Royal Australasian College of Physicians (since 2008)
- Chair of official project of the American Thoracic Society with responsibility for developing a statement on: 'Evaluation of respiratory mechanics and function in the pediatric and neonatal intensive care unit'
- Member of the Program Committee of the Pediatric Assembly, American Thoracic Society (since 2010)
- Melbourne Chair, Principal Investigator and Director of the Australian Respiratory Early Surveillance Team for Cystic Fibrosis (AREST-CF) (Since 2005)
- Convener, Cystic Fibrosis Special Interest Group (Chair of CF Centre Directors), Thoracic Society of Australia and New Zealand [TSANZ] (From 2012)
- Member of the Clinical Effectiveness Committee, Royal College of Paediatrics and Child Health, UK (since 2009)
- Member of the Australian Cystic Fibrosis Data Registry Committee (since 2008)

RECENT PAST (2004-2010):

CLINICAL

- Royal College of Paediatrics and Child Health, UK Representative on National Institute for Health and Clinical Excellence Scoping Workshop for Tuberculosis (2009-2010)
- Member of the Guideline Development Group (Interferon-gamma tests for the diagnosis of latent TB) of the National Institute for Health and Clinical Excellence, UK (2010-2011)
- Co-convener, Australasian Paediatric Respiratory Group (2007-2008)
- Executive Committee Member of TSANZ (2007-2008)

RESEARCH

- Member of the Editorial Board, *Am J Respir Crit Care Med* (2007-2010)
- Member of the Research Ethics Review Board of the Royal Children's Hospital Melbourne (including periods covering for Chair) (2006-2008)
- Co-convener of the Paediatric Special Interest Group of TSANZ (2006-2008)
- Founder of a research laboratory for testing pulmonary function in infants and pre-school children, Royal Children's Hospital, Melbourne.
- Member of the Joint ATS/ERS Task Force on Computer Tomography Scan and Lung Function during Childhood
- Member of the Australian Research Network for the Investigation of Empyema

TEACHING

Undergraduate

- Module Leader, Child Health Undergraduate Course, Brighton and Sussex Medical School (2008-2010)
- Examiner for the MBBS undergraduate exam (paediatric section), Brighton and Sussex Medical School (2008-2010)

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- Clinical Tutor and Senior Lecturer, University Department of Paediatrics, Brighton and Sussex Medical School (2008-2010)

Postgraduate

- Chair of the Paediatric Curriculum Committee, Thoracic Society of Australia and New Zealand (2007-2008) – **Curriculum published 2011**
- Examiner for the Fellowship examination of the Royal Australasian College of Physicians

MANAGEMENT, GOVERNANCE AND QUALITY IMPROVEMENT

- Health Services Consultant, Government of Seychelles (2005)
- Asthma Friendly Schools Victoria committee member (2004-2008)
- Chair of Australian Cystic Fibrosis Services Peer-review Committee (since 2012)

GRANT FUNDING AND RESEARCH SUPPORT

Current Funding (total approx \$5.2 million – further \$49.2 million grant selected for capital raising program)

1. National Institutes of Health, USA. RFA. Viral Pathogenesis of Early Cystic Fibrosis Lung Disease. Davis S, Ferkol T, **Ranganathan SC**. Funding sought **\$1.4 million USD**.
2. National Health and Medical research Council, Australia: Long Term Outcomes of Infant Lung function in Cystic Fibrosis. **Ranganathan SC**, Hall GL, Stick S. **\$484,241.00** (2012-2016)
3. National Health and Medical Research Council, Australia: Centres for Research Excellence. Centre for Research in Childhood Early Respiratory Disease. Stick S, Sly PD, **Ranganathan SC**, Robinson P, Robertson CF, Hall G, de Klerk N, Robins-Browne R, Shield L. **\$2.5 million AUD** (2010-2014)
4. National Health and Medical Research Council, Australia: A population-based cohort investigation of lung function in relation to early life lower respiratory tract illness and aeroallergen sensitisation. **Ranganathan SC**, Vuillermin P, Ponsonby A-L, Carlin J. **\$460,000 AUD** (2011-2015)
5. United States Cystic Fibrosis Foundation: Early predictors of destructive lung disease in CF. S Stick, P Sly, **Ranganathan S**, P Robinson, C Robertson, **GL Hall**, N De Klerk, R Robins-Browne. **\$694000 USD** (2009-2012)
6. National Health and Medical Research Council, Australia. Evolution of airway function and inflammation in early cystic fibrosis lung disease. Hall GL, **Ranganathan SC**, Brennan S, Robinson PJ, Robertson CF. **\$480000 AUD** (2008-2011)
7. Murdoch Children's Research Institute. Investigation of the role of staphylococcal infection in the development of early lung disease in children with cystic fibrosis. Hart E and **Ranganathan SC**. **\$43000 AUD** (2011)
8. Cystic Fibrosis Australia. The role of staphylococcal infections in early cystic fibrosis lung disease. Hart E, **Ranganathan SC**, Robbins-Browne RM. **\$83048 AUD** (2012)

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9. Cystic Fibrosis Western Australia. AREST CF – Early Disease Mechanisms, Clinical end-points and predictors, therapeutics and clinical trial. Stick, **Ranganathan**, Sly, Hall, Kicic, Robbins-Browne, Boucher, Knowles, Turvey, Hancock, Kettle, Stanley, Elefanty, Bertonecello, Moodley, Parsons, Savage, McClean Street. Funding sought **\$49.2 million AUS**

Past Funding (total approx \$1.0 million)

1. Asthma Victoria. Asthma and pre-school lung function. **Ranganathan SC**, Harrison J. **\$25000 AUD** (2008)
2. United States Cystic Fibrosis Foundation. Early Detection of lung disease in cystic fibrosis. Sly PD, Stick S, **Ranganathan S**, Robinson P, Robertson C, Hall GL. **\$486000 USD** (2005-2007).
3. Murdoch Childrens Research Institute, Australia Characterising the early pulmonary inflammation in cystic fibrosis. **Ranganathan S**. **\$18,398 AUD** (2008)
4. Atresia Research Auxiliary, Victoria. Longitudinal study of lung function in children with repaired tracheo-oesophageal fistula. **Ranganathan SC**, Harrison J. **\$15000 AUD** (2008)
5. Murdoch Children's Research Institute, Australia: Research Equipment Grant. Early detection of lung disease in cystic fibrosis. **Ranganathan SC**, Robertson C. **\$52000 AUD** (2007)
6. Cystic Fibrosis Australia. Early detection of lung disease in cystic fibrosis: a gene expression study. **Ranganathan S**, Curtis N, Robbins-Browne R, Smyth G **\$51317** (2006).
7. Asthma Foundation of Victoria. Evaluation of airway function in pre-school children with asthma. **Ranganathan SC**. **\$25000 AUD** (2006).
8. Murdoch Children's Research Institute, Australia. Early detection of lung disease. **Ranganathan SC**, Robertson C. **\$54,000 AUD** (2006-2007).
9. Oesophageal Atresia Research Auxiliary. Forced oscillation technique to measure respiratory function in children with repaired tracheo-oesophageal fistula. **Ranganathan SC**. **\$5200 AUD** (2006)
10. John Burge Trust, Victoria. Detection of latent tuberculous infection in children by whole-blood interferon- γ , immunospot and tuberculin skin testing. **Ranganathan SC**. **\$44000 AUD** (2006).
11. Murdoch Children's Research Institute, Victoria. Pilot study of Neurodevelopmental and Respiratory Outcome of infants who survived surgery for Congenital Diaphragmatic Hernia in the perinatal period. Hunt R, **Ranganathan SC**. **\$5000 AUD** (2005).
12. John Burge Trust, Victoria Detection of latent tuberculous infection in children by whole-blood interferon- γ and tuberculin skin testing. **Ranganathan SC**. **\$1800 AUD** (2004)

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13. NHS executive, UK. Effect of Inhaled Corticosteroids on Airway Resistance Measured by the Interrupter Technique in pre-school children with wheeze and cough. Mackenzie SA, Bridge P, **Ranganathan SC. 200,000 GBP** (1998-1999).

FUNDING BEING SOUGHT

National Health and Medical Research Council. Role of viruses in development of structure-function dysfunction in cystic fibrosis. **Ranganathan S**, Hall GL, Stick S, Ferkol T, Davis S. Funding sought **\$1.0 million AUD**

National Health and Medical Research Council. Staphylococcus aureus infections impact early lung disease in cystic fibrosis. Hart E, Kicic A, **Ranganathan S**, Turvey S, Hancock, R, Stick S. Funding sought \$502465

National Health and Medical Research Council. Patterns, pathways and price of developing disparities in cardiovascular and respiratory health by age 11-12 years: The Longitudinal Study of Australian Children. Wake M, Carlin J, Mensah F, Gold, L, **Ranganathan S**, Olds, T, Burgner, D, Cheung, M, Sawyer M, Dwyer T \$3,552,568

BIBLIOGRAPHY: PEER-REVIEWED ARTICLES

1. Martin B, Schechter M, Copper P, Bell S, Jaffe A, **Ranganathan S**. A comparison of health measures recorded in the United States and Australian National Cystic Fibrosis Data Registries and the impact of newborn screening. *Pediatrics* 2012;129(2):e348-55) (**IF: 5.391**)
2. Robinson PD, Latzin P, Verbanck S, Hall GL, Horsley A, Gappa M, Thamrin C, Arets HGM, Aurora P, Fuchs S, King GG, Lum S, Macleod K, Paiva M, Pillow J, **Ranganathan S**, Ratjen F, Singer F, Sonnappa S, Stocks J, Subbarao P, Thompson B and Gustafsson P. Guidelines for inert gas washout measurement using multiple and single breath tests. *Eur Respir J* 2012 (In press – accepted September 2012) (**IF: 5.527**)
3. Mott L, Park J, Murray CP, Gangell CL, de Klerk NH, Robertson CF, **Ranganathan SC**, Robinson PJ, Sly PD and Stick SM. Progression of early structural lung disease in young children with cystic fibrosis assessed using computed tomography. *Thorax* 2012;67(6):509-16 (**IF: 7.041**)
4. Widger J, **Ranganathan S** and Robinson P. Progression of structural lung disease on CT scans in children with Cystic Fibrosis Related Diabetes. *Plos one* (In press – accepted for publication August 2012) (**IF: 4.411**)
5. Smith C, Winn A, Seddon P, **Ranganathan S**. A fat lot of good: balance and trends in fat intake in children with cystic fibrosis. *J Cyst Fibros*. 2012 Mar;11(2):154-7 (**IF: 2.84**)
6. Garratt L, Wright AKA, **Ranganathan SC**, Grigg J, Sly PD. Small macrophages are present in early childhood respiratory disease. *J Cyst Fibros*. 2012 May;11(3):201-8 (**IF: 3.19**)
7. Strachan RE, Cornelius A, Gilbert GL, Gulliver T, Martin A, McDonald T, Nixon G, **Ranganathan S**, Roseby R, Selvadurai H, Smith G, Soto-Martinez ME, Suresh S, Teoh L, Thapa K, Wainwright C, Jaffé A. Pleural fluid nucleic acid testing enhances pneumococcal surveillance in children. *Respirology*. 2012 Jan;17(1):114-9 (**IF: 1.849**)
8. Pillarisetti N, Williamson E, Linnane B, Skoric B, Robertson C, Robinson P, Massie J, Hall GL, Sly P, Stick S and **Ranganathan S**. Infection, inflammation and lung function decline in infants with cystic fibrosis. *Am J Respir Crit Care Med* Apr 2011; 184(1):75-81 (**IF: 10.689**)
9. **Ranganathan S**, Parsons F, Gangell C, Brennan S, Stick S and Sly P. Evolution of pulmonary inflammation and nutritional status in infants and young children with CF. *Thorax* 2011 May;66(5):408-413 (**IF: 7.041**)
10. Gangell C, Gard S, Douglas T, Park J, de Klerk N, Keil T, Brennan S, **Ranganathan S**, Robbins-Browne R and Sly PD. Inflammatory Responses to Individual Microorganisms in the Lungs of Children with Cystic Fibrosis. *Clin Infect Dis* 2011;53:425-432 (**IF: 8.195**)
11. **Ranganathan S**, Rosenfeld M, Davis S. Monitoring of Structure and Function in Cystic Fibrosis Lung Disease. *Pediatr Allergy, Immunol, Pulmonol* 2011; 24: 133-137
12. Hall GL, Logie KM, Parsons F, Schulzke S, Nolan G, Murray C, **Ranganathan S**, Robinson P, Sly PD and Stick SM. Air trapping on chest computerized tomography is associated with worse

ventilation distribution in infants with cystic fibrosis diagnosed following newborn screening. *Plos One* 2011;6:e23932 (IF: 4.411)

13. Strachan R, Cornelius A, Gwendolyn A. Gilbert L, Gulliver T, Martin A, McDonald T, Nixon G, Roseby R, **Ranganathan S**, Selvadurai H, Smith G, Soto-Martinez M, Sadasivam S, Teoh L, Thapa K, Wainwright CE, Jaffé A. Identification of the Bacterial Causes of Childhood Empyema. *Emerging Infectious Diseases* 2011;17:1839-45 (IF: 6.794)
14. Strachan R, Cornelius A, Gilbert GL, Gulliver G, Martin A, McDonald T, Nixon G, Roseby R, **Ranganathan S**, Selvadurai H, Smith G, Soto-Martinez M, Suresh S, Teoh L, Thapa T, Wainwright C, Jaffé A on behalf of the Australian Research Network in Empyema (ARNiE). A bedside assay for the detection of *Streptococcus pneumoniae* in children with empyema. *Pediatr Pulmonol* 2011 Feb;46(2):179-83 (IF: 2.27)
15. Thomson E, Brennan S, Senthilmohan R, Gangell CL, Chapman AL, Sly PD, Kettle AJ; Australian Respiratory Early Surveillance Team for Cystic Fibrosis (AREST CF), Balding E, Berry LJ, Carlin JB, Carzino R, de Klerk N, Douglas T, Foo C, Garratt LW, Hall GL, Harrison J, Kicic A, Laing IA, Logie KM, Massie J, Mott LS, Murray C, Parsons F, Pillarisetti N, Poreddy SR, **Ranganathan SC**, Robertson CF, Robins-Browne R, Robinson PJ, Skoric B, Stick SM, Sutanto EN, Williamson E. Identifying peroxidases and their oxidants in the early pathology of cystic fibrosis. *Free Radic Biol Med*. 2010; 49: 1354-60 (IF: 5.239)
16. Harrison J, Gibson A, Johnson K, Singh G, Skoric B, **Ranganathan S**. Lung function in preschool children with a history of wheezing measured by forced oscillation and specific airway resistance. *Pediatr Pulmonol* 2010;45:1049-56 (IF: 2.27)
17. Harrison J, Martin J, Cramer J, Robertson CF, **Ranganathan SC**. Lung function in children with repaired tracheo-oesophageal fistula using the forced oscillation technique. *Pediatr Pulmonol* 2010;45:1057-63 (IF: 2.27)
18. Sirithangkul S, **Ranganathan S**, Robinson PJ, Robertson CF. Positive expiratory pressure to enhance cough effectiveness in tracheomalacia. *J Med Assoc Thai*. 2010;93 Suppl 6:S112-8
19. Pillarisetti N, Linnane B and **Ranganathan S**. Early bronchiectasis in cystic fibrosis detected by surveillance CT. *Respirology* 2010; 15:1009-11 (IF: 1.849)
20. Sly PD, Brennan S, Gangell C, Murray C, Mott L, Stick S, Conlan S, Robinson PJ, Robertson C, **Ranganathan S**. Lung Disease at Diagnosis in Infants with Cystic Fibrosis following Newborn Screening. *Am J Respir Crit Care Med* 2009;180:146-52 (IF: 9.792; Citations: 51)
21. Stick SM, Brennan S, Murray C, Douglas T, von Ungern-Sternberh B, Garratt L, De Klerk N, Linnane B, **Ranganathan S**, Robinson P, Robertson C, Sly PD. Bronchiectasis is common in infants and preschool children diagnosed with CF following newborn screening. *J Pediatr* 2009;155:623-8 (IF: 4.122; Citations: 35)
22. Neville LA and **Ranganathan SC**. Vitamin D in infants with cystic fibrosis newly diagnosed by newborn screening. *Journal of Paediatrics and Child Health* 2009; 45:36-41 (IF: 1.124)

23. Hoo AF, Beardsmore CS, Castle RA, and **Ranganathan SC**, Tomlin K, Field D, Stocks J on behalf of the INNOVO Trial Collaborating Group. Respiratory Function during Infancy in Survivors of the INNOVO Trial. *Pediatric Pulmonology* 2009;44:155–161 (IF: 2.27)
24. Steinfort D, Wurzel D, Irving L and **Ranganathan SC**. Endobronchial ultrasound in pediatric pulmonology. *Pediatric Pulmonology* 2009;44:303-8 (IF: 2.27)
25. Wurzel D, Steinfort D, Irving L, Massie J and **Ranganathan SC**. An unusual case of sarcoid diagnosed by endobronchial ultrasound with transbronchial needle aspiration. *Pediatric Pulmonology* 2009;44:410-4. (IF: 2.27)
26. Soto-Martinez M, Clifford V, Clarnette T, **Ranganathan SC**, Massie J. Spontaneous Chylothorax in a Two Year-old Child. *Med J Aust*. 2009 Mar 2;190:262-4 (IF: 2.54)
27. Linnane B, Robertson C, Robinson P, Stick S, Sly P, Hall G, Brennan H, Nolan G, Franklin P and **Ranganathan S**. Lung function in infants with cystic fibrosis after diagnosis by newborn screening. *Am J Respir Crit Care Med* 2008;178:1238-1244 (IF: 9.792; Citations: 44)
28. Connell TG, Ritz N, Paxton GA, BATTERY JP, Curtis N, **Ranganathan SC**. A three-way comparison of tuberculin skin testing, QuantiFERON-TB gold and TSPOT.TB in children. *PLoS ONE* 2008; 3(7): e2624. doi:10.1371/journal.pone.0002624* (IF: 4.351; Citations: 62)
29. W J Kozłowska, A Bush, A Wade, P Aurora, S B Carr, R A Castle, A-F Hoo, S Lum, J Price, **S Ranganathan**, C Saunders, S Stanojevic, J Stroobant, C Wallis & J Stocks. Lung function from infancy to the preschool years following clinical diagnosis of cystic fibrosis. *Am J Respir Crit Care Med* 2008;178:42-9 (IF: 9.792; Citations 35)
30. Wainwright CE, Grimwood K, Carlin JB, Vidmar S, Cooper PJ, Francis PW, Byrnes CA, Whitehead BF, Martin AJ, Robertson IF, Cooper DM, Dakin CJ, Masters IB, Massie RJ, Robinson PJ, **Ranganathan S**, Armstrong DS, Patterson LK, Robertson CF. Safety of bronchialveolar lavage in young children with cystic fibrosis. *Pediatr Pulmonol* 2008;43:965-72 (IF: 2.27)
31. Hoskote A, Castle R, Hoo AF, Lum S, **Ranganathan S**, Mok Q and Stocks J. Airway function at one year of age in infants treated with inhaled nitric oxide for persistent pulmonary hypertension at birth. *Pediatr Pulmonol* 2008;43:224–235 (IF: 2.27)
32. Lum S, Ljungberg H, Gustafsson P, Hülkamp G, Bush A, Carr SB, Castle R, Hoo AF, Price J, **Ranganathan S**, Stroobant J, Wade A, Wallis C, Wyatt H and Stocks. Early detection of lung disease in infants with CF: multiple breath washout versus raised volume technique. *Thorax* 2007;62:341-7 (IF 7.069; Citations 52)
33. **Ranganathan SC**, Connell TG, Curtis N. Interferon-gamma release assays in children – no better than tuberculin skin testing? *J Infect* 2007;54:412-3 (IF: 2.037)
34. Linnane B, Hafen GM, **Ranganathan SC**. Diameter of paediatric sized flexible bronchoscopes: When size matters. *Pediatr Pulmonol* 2006 Aug;41(8):787-9 (IF: 2.27)

35. Connell TG, Curtis N, **Ranganathan SC**, Buttery JP. Performance of a whole blood interferon gamma assay for detecting latent infection with Mycobacterium tuberculosis in children. *Thorax* 2006;61:616-620. (IF: 7.069; Citations 103)
36. Hafen G, **Ranganathan SC**, Robertson CF and Robinson P. Clinical scoring systems in cystic fibrosis. State of the art. *Pediatr Pulmonol* 2006;41:602-617 (IF:2.27)
37. Lum S, Stocks J, Castile R, Davis S, Henschen M, Jones M, Morris M, Ranganathan SC, Sly PD Stocks J, and Tepper R. American Thoracic Society/European Respiratory Society Working Group on Infant and Young Children Pulmonary Function Testing. Raised volume forced expirations in infants: guidelines for current practice. ATS/ERS consensus statement. *Am J Respir Crit Care Med* 2005;172:1463-1471 (IF: 9.792)
38. Hafen GM, Taylor AC, Oliver MR, Stokes KB, Rao P, Robertson CF and **Ranganathan SC**. Intussusceptions arising from two different sites in a child with cystic fibrosis. *Pediatr Pulmonol* 2005;40:358-61 (IF:2.27)
39. **Ranganathan SC**, Stocks J, Dezateux C, Bush A, Wade A, Carr S, Castle R, Dinwiddie R, Hoo AF, Lum S, Price J, Stroobant J and Wallis C. The Evolution of Airway Function in Early Childhood Following Clinical Diagnosis of Cystic Fibrosis. *Am J Respir Crit Care Med* 2004;169:928-933 (IF: 9.792; Citations: 67)
40. **Ranganathan SC**, Goetz I, Hoo A-F, Lum S, Castle R and Stocks J. Assessment of tidal breathing parameters in infants with cystic fibrosis. *Eur Respir J* 2003; 22: 761-766 (IF:5.076)
41. **Ranganathan SC**, Bush A, Dezateux C, Carr SB, Hoo A, Lum S, Madge S, Price J, Stroobant J, Wade A, Wallis C, Wyatt H and Stocks J. Relative ability of full and partial forced expiratory maneuvers to identify diminished airway function in infants with cystic fibrosis. *Am J Respir Crit Care Med* 2002;166:1350-1357 (IF: 9.792; Citations: 67)
42. **Ranganathan SC**, Hoo AF, Lum SY, Goetz I, Castle RA, Stocks J. Exploring the relationship between V'_{maxFRC} and parameters of forced expiration from raised lung volume in healthy infants *Pediatr Pulmonol* 2002; 33:419-428 (IF: 2.27; Citations: 31)
43. **Ranganathan SC**, Dezateux C, Bush A, Carr SB, Castle RA, Madge S, Price J, Stroobant J, Wade A, Wallis C, and Stocks J. Airway function in infants newly diagnosed with cystic fibrosis. *Lancet* 2001; 358:1964-1965 (IF 28.4; Citations: 70)
44. Gappa M, **Ranganathan SC**, Stocks J. Lung function testing in infants with cystic fibrosis: lessons from the past and future directions. State of the Art. *Pediatr Pulmonol* 2001; 32:228-245 (IF: 2.27; Citations: 38)
45. **Ranganathan SC**, Payne DNR, Jaffe A, McKenzie SA. Difficult asthma: defining the problems. *Pediatr Pulmonol* 2001;31:114-120 (IF: 2.27; Citations: 22)
46. Cane R, **Ranganathan S**, Mckenzie SA. What do parents understand by 'wheeze'? *Arch Dis Child*. 2000; 82: 327-332 (IF:2.834; Citations: 125)

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48. Bridge PD, **Ranganathan S**, McKenzie SA. Feasibility, repeatability, and interrator reliability of the measurement of airway resistance using the interrupter technique (R_{int}) in pre-school children in the ambulatory setting. *Eur Respir J* 1999;13:792-796 (**IF: 5.076; Citations: 60**)

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49. Cyanide in bronchoalveolar lavage is not diagnostic for *Pseudomonas aeruginosa* in children with cystic fibrosis. *AREST CF Eur Respir J*. 2011 Mar;37(3):553-8
50. Lung clearance index at 4 years predicts subsequent lung function in children with cystic fibrosis. *Am J Respir Crit Care Med*. London Cystic Fibrosis Collaboration. 2011 Mar 15;183(6):752-8
51. Empyema Thoracis: recommendations for management. Position statement from the Thoracic Society of Australia and New Zealand. *Med J Aus* 2011; 195:95
52. Value of serology in predicting *Pseudomonas aeruginosa* infection in young children with cystic fibrosis. *AREST CF. Thorax*. 2010 Nov; 65(11):985-990
53. Monocytes from children with clinically stable cystic fibrosis show enhanced expression of Toll-like receptor 4. *AREST CF. Pediatr Pulmonol* 2010 Sep;45(9):883-9
54. Identifying peroxidases and their oxidants in the early pathology of cystic fibrosis. *AREST CF. Free Radic Biol Med* 2010 Nov 15;49(9):1354-60
55. Stability of interleukin 8 and neutrophil elastase in bronchoalveolar lavage fluid following long-term storage. *AREST CF. J Cyst Fibros*. 2010 Sep;9(5):346-50
56. Interpretation of urinary 8-oxo-7,8-dihydro-2'-deoxoguanosine is adversely affected by methodological inaccuracies when using a commercial ELISA. *AREST CF. Free Radic Biol Med*. 2010 Jun; 48 (11):1460-4
57. Assessment of the burden of paediatric empyema in Australia. Australian Research Network in Empyema. *J Paediatr Child Health*. 2009; 45:431-6
58. Bronchiectasis in an asymptomatic infant with cystic fibrosis diagnosed following newborn screening. *AREST CF. J Cyst Fibros*. 2009 Jul;8(4):285-7
59. Alveolar macrophages and CC chemokines are increased in children with cystic fibrosis. *AREST CF. Eur Respir J*. 2009 Sep;34(3):655-61

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61. Diagnosis of cystic fibrosis after newborn screening: the Australasian experience-twenty years and five million babies later: a consensus statement from the Australasian Paediatric Respiratory Group. *Pediatr Pulmonol*. 2005 May;39(5):440-6 (**Citations: 25**)

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SUBMITTED MANUSCRIPTS CURRENTLY UNDERGOING PEER REVIEW

- Pillarisetti N, Sowerbutts H, Linnane B, Skoric B, Williamson E, Hall G, **Ranganathan S**. Assessment of lung compliance in infants with cystic fibrosis
- Optimal Lung Function Tests for Monitoring Cystic Fibrosis, Bronchopulmonary Dysplasia and Recurrent Wheezing in Children <6 Years of Age: ATS Workshop Report
- Ntouva A, MacAdam A, Emmett P, **Ranganathan S**, Rogers I. Iron intakes and haemoglobin levels in exclusively breastfed infants. 8-month preliminary data.
- Blau H, Linnane B, Carzino R, Tannenbaum E, Skoric, B, Robinson P, Robertson C and **Ranganathan S**. Bacterial Yield of Induced Sputum compared to Bronchoalveolar lavage in young non-expectorating children with cystic fibrosis
- Widger J, Oliver MR, O'Connell M, Cameron FJ, Ranganathan S and Robinson PJ. Glucose tolerance during pulmonary exacerbations in children with Cystic Fibrosis.
- Wong J, **Ranganathan SC**, Carzino R, Robins-Browne R, Rosenfeld M and Hart E. The molecular epidemiology and virulence profiles of *Staphylococcus aureus* in paediatric cystic fibrosis.
- Douglas TA, Hart P, Park J, **Ranganathan S**, Garrett L, Sly PD, Stick SM and Hall G L. Vitamin D deficiency is associated with increased risk of lower respiratory infection with *S. aureus* among infants and preschool children with cystic fibrosis.
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- Hart E, Wong JK, Carzino R, Robins-Browne RM, Rosenfeld M, **Ranganathan SC**. Molecular epidemiology of *Staphylococcus aureus* respiratory infections in paediatric cystic fibrosis

RESEARCH SUMMARY

I co-ordinated the London Collaborative Cystic Fibrosis Study (LCCFS) of lung function and clinical status in infancy between December 1999 and November 2002 at the Institute of Child Health, London under the supervision of Professor Janet Stocks and Professor Andrew Bush. The LCCFS is a prospective longitudinal cohort study recruiting infants newly diagnosed with cystic fibrosis (CF) from five paediatric centres in London, UK. The main aims of this study were to evaluate the role of new lung function techniques in assessing the distribution of pulmonary function abnormalities at diagnosis and six months later and to examine the cross-sectional and longitudinal associations of airway function with anthropometric measurements and clinical status in infants with CF. My research in this field led to the publication of several papers in high impact peer-reviewed journals (e.g. The Lancet and American Journal of Respiratory and Critical Care Medicine) and the completion of my peer-reviewed and orally examined **PhD thesis** entitled '**Lung Function in Infants with Cystic Fibrosis: Findings at Diagnosis and Changes with Time**'. I have presented these data at plenary sessions at international meetings. Membership of numerous national and international committees reflects my expertise in the field of early detection of lung disease in CF, in addition to the contribution of chapters to two principal CF textbooks. Despite working in a busy clinical post, I have extended and developed my interest in this area further since my appointment in Melbourne leading to successful national and international funding awards for leading clinical and translational research and the establishment of the Australian Respiratory Early Surveillance Team for Cystic Fibrosis. Website located at: www.arestcf.org/

EVIDENCE FOR INTERNATIONAL REPUTATION IN RESPIRATORY MEDICINE

I have chaired 7 symposia at international meetings in the last two years and have contributed to the conference planning and abstract selection of most of the major national and international respiratory congresses over the last three years.

RECENT INVITED LECTURES (With funding provided by the organisers – 17 since 2009)

- **California Cystic Fibrosis Consortium, Stanford University, USA 2013**
 - ‘Optimising research in early lung disease in cystic fibrosis’
- **North American roundtable on respiratory disease assessment in CF infants, Dallas, USA 2012**
 - ‘Realities of applying the AREST CF findings to North American cystic fibrosis care’
- **Sixth Argentinian Pulmonary Congress, Buenos Aires, Argentina 2012**
 - Two talks: - ‘Management of childhood pneumonia and empyema’ and ‘Advances in Lung Function’
- **North American Cystic Fibrosis Conference, Orlando, USA 2012**
 - One workshop talk (‘Pathobiology of Cystic Fibrosis’); one postgraduate lecture (‘Lung function outcomes in CF’); and one pro-con debate (‘Maximum therapies are indicated for infants with Cystic Fibrosis’)
- **European Respiratory Society, Vienna, Austria 2012**
 - Postgraduate lecture (‘Pleuritis and Empyema’); symposium talk (‘Optimising lung function testing in CF, bronchopulmonary dysplasia and children born prematurely’)
- **Conference Internationale de Pediatric Pulmonologie, Bangkok, Thailand 2012**
 - ‘Management of pleural infection – the Australian experience’ and ‘Advances in infant lung function’
- **European CF clinical trials network, Rotterdam, Netherlands 2012**
 - ‘Role of the raised volume technique in cystic fibrosis’
- **North American Cystic Fibrosis Conference, Anaheim, USA 2011**
 - ‘Cystic Fibrosis Lung Disease in Infants and Toddlers’
- **European Cystic Fibrosis Society, Hamburg, Germany 2011**
 - ‘Clinical trials in young children with CF – Investing in the Future. Keeping the lungs Pristine.’
- **American Thoracic Society, Denver, USA 2011**
 - ‘Pathophysiology of wheezing in infants’
- **Irish National Cystic Fibrosis Conference, Killarney, Ireland 2011**
 - ‘Newborn screening for cystic fibrosis: Findings from Early Surveillance’
- **Plenary session of the Swiss National Paediatric Society, Lausanne, Switzerland, 2010.**
‘Tuberculosis in Children: New Tests in an Old Disease’
- **Scottish National Cystic Fibrosis Meeting, Stirling, Scotland, 2010**
 - ‘Cystic Fibrosis: Findings from Early Surveillance’
- **American Thoracic Society, New Orleans, 2010.**
 - ‘The Evolution of Pulmonary Inflammation and Nutritional Status in Infants with Cystic Fibrosis’
- **Workshop of the Lung function Task Force on Pre-school Pulmonary Function of the American Thoracic Society, San Diego 2009.**
 - ‘Getting pre-school lung function into clinical practice’.

- **Plenary session of the Swiss National Respiratory Society, Munchenweiler, Switzerland 2009.**
 - ‘Early Detection of Lung Disease in Cystic Fibrosis’
- **North American Cystic Fibrosis Society, Minneapolis, USA 2009.**
 - ‘Can we arrest lung disease in cystic fibrosis?’
 - ‘Functional Surrogates for Structural Lung Disease in Infants with Cystic Fibrosis’

MAJOR ONGOING RESEARCH PROJECTS

1. Early Detection of Lung Disease in Cystic Fibrosis – The Australian Respiratory Early Surveillance Team for Cystic Fibrosis (AREST-CF)

Role: Principal Investigator

Scope of research activities: Since 2005 the AREST CF collaboration between clinical centres and research organisations in Perth and Melbourne has established itself as the leading group focussed on lung disease mechanisms, predictors of disease, outcome measures and intervention trials early in life. The AREST CF philosophy that originally developed from studies undertaken independently in Perth and Melbourne in 1994-2000, has contributed to a significant paradigm shift; from management approaches based upon disease amelioration to one that targets disease prevention commencing at diagnosis in children with CF identified by newborn screening. The AREST CF collaboration has a significant track record converting funding into research outputs, including support for the first clinical trial in infants with CF (COMBAT CF - ClinicalTrials.gov identifier NCT01270074) designed to prevent the onset of bronchiectasis – the major cause of morbidity and mortality in cystic fibrosis. We have published 30 manuscripts since 2006 and for the past 12 months have been responsible for an average of more than one publication per month.

AREST CF Partner organisations: *Princess Margaret Hospital, Telethon Institute for Child Health Research and University of Western Australia, Perth*

External Collaborations: **In North America:** *University of Washington; University of Indiana; University of North Carolina; Seattle Children's Hospital, University of British Columbia.* **In Europe:** *University of Rotterdam.* **In Australia:** *Walter and Eliza Hall Institute; Monash University; CSIRO; University of Adelaide University of Otago;*

Community and stakeholder institutions: *United States Cystic Fibrosis Foundation, European Respiratory Society Clinical Trial Network,*

Funding: **United States Cystic Fibrosis Foundation** (2004-2007 and 2009-2011), **National Health and Medical Research Council of Australia** (2008-2010, 2010-2014 and 2012-2016)

Progress: The AREST CF collaboration has a significant track record converting funding into research outputs. We have raised over \$8m in national and international competitive research funds since 2005 including support for the first clinical trial in infants with CF (COMBAT CF - ClinicalTrials.gov identifier NCT01270074) designed to prevent the onset of bronchiectasis – the major cause of morbidity and mortality in cystic fibrosis. We have published 30 manuscripts since 2006 and for the past 12 months have been responsible for an average of more than one publication per month. In 2010 we were designated a Centre of Research Excellence by the NHMRC.

The AREST CF strategic approach is based on the premise that CF lung disease can be prevented. We believe that this will be achieved by: 1). identifying important early pathobiologic mechanisms to inform drug discovery; 2). establishing diverse therapeutic discovery programs; 3). optimising and validating outcome measures suitable for trials in young children; 4). ensuring that potential disease modifying therapies are investigated in and, made available to, infants with CF. The investigative themes that comprise our program are closely aligned to these four principles.

2. The Barwon Infant Study (BIS)

Scope of research activities: A mechanistic study investigating early life interactions in the evolution of atopy, lung development, asthma, lung function and cardio-vascular disease.

Role: Principal Investigator of BIS Respiratory

Collaboration: *Barwon Health, Geelong; Deakin University*

Funding: **National Health and Medical Research Council**, Australia (2011-2015)

The aim of the BIS Respiratory study is to create new knowledge regarding the pathways leading to deterioration in lung function during early postnatal life.

Proposed disease pathway. The steps in grey (to the left) are being investigated in the BIS birth cohort study (NHMRC ref 607370). The steps in white (to the right) pertain specifically to BIS Respiratory (NHMRC 1009044). We are using the novel multiple breath washout technique to measure early postnatal

Curriculum vitae: Sarath RANGANATHAN

lung function and investigate the relationship between postnatal Th1 maturation, lower respiratory tract illness, aeroallergen sensitisation, and deterioration in lung function during the first three years of life. The long-term goal is to study associations between early life exposures measured during this study, lung function and the development of persistent asthma, in order to enhance the capacity for asthma prevention.

TEACHING AND EDUCATIONAL ACTIVITIES

Undergraduate:

- I was Module leader for Child Health **Year 3 curriculum in Paediatrics at Brighton and Sussex Medical School 2008-2010. I learnt structures for examinations, standard setting techniques, techniques for question-setting etc.** and sat on the Examination Board of the Brighton and Sussex Medical School.
- I am active in training medical students and junior medical staff. I have contributed questions for medical schools final examination and have marked the examination. I have provided regular lectures and tutorials for the undergraduate curriculum (since 2004).
- I run an elective module in Tuberculosis for University of Melbourne undergraduate students.

Postgraduate:

General Paediatrics

- I have been a lecturer for an MSc course in Paediatric Critical Care, Imperial College, London, an instructor for the Pastest course for part 1 of the MRCPCH examination, London, an Imperial College course instructor for the MRCPCH examination.
- I teach regularly for the FRACP as well as having examined the FRACP

Respiratory Medicine

- I chaired the Paediatric Respiratory Curriculum Committee on behalf of the Royal Australian College of Physicians and the Thoracic Society of Australian and New Zealand and oversaw the development of the **Australian Curriculum for Paediatric Respiratory Medicine. This comprehensive document provides the framework for the assessment of paediatric respiratory training in Australia.**
- I have been co-opted onto the Education and Research Subcommittee of the Thoracic Society of Australia and New Zealand in order to advise on strategies to develop formal respiratory training positions in Australia
- I have supervised several Australian and International Fellows towards completion of training in paediatric respiratory medicine and continue to provide support and mentoring during their substantive posts:
 - Dr Gaudenz Hafen – Consultant Respiratory Physician, Lausanne, Switzerland
 - Dr Joanne Harrison – Consultant Respiratory Physician, RCH Melbourne
 - Dr Mary Herzig – Consultant Paediatrician with a respiratory interest, Galway, Ireland
 - Dr Barry Linnane – Consultant Respiratory Physician, Dublin, Ireland
 - Dr Naveen Pillarisetti – Consultant Respiratory Physician, Auckland, New Zealand
 - A/Prof Andrew Tai - Consultant Respiratory Physician, Adelaide, Australia

Curriculum vitae: Sarath RANGANATHAN

- Dr Manuel Soto-Martinez – Consultant Respiratory Physician, Costa Rica

OTHER ACADEMIC RESPONSIBILITIES

RESEARCH SUPERVISION

- **I am currently supervising 2 PhD and 2 MD students.**
 - **PhD thesis** (via the University of Melbourne) of Ms Anne-Marie Gibson (New Zealand) entitled ‘Long-term respiratory outcomes of children born extremely premature’. Anne-Marie was awarded a **postgraduate research fellowship by the National Health and Medical Research Council of Australia in 2009.**
 - **PhD thesis** of Dr John Wong (via University of Melbourne). John was awarded a **MCRI postgraduate scholarship 2011**
 - **DMedSci thesis** (via the University of Melbourne) of Dr Anne-Marie Ebdon
 - **MD thesis (just re-submitted)** of Dr John Widger (via Royal College of Surgeons, Dublin, Ireland)
- **I have supervised 2 Higher Degree Students to completion previously.**
 - **MD thesis** (via the University of Melbourne) of Dr Barry Linnane (Ireland) entitled ‘Early Pathophysiological Changes in the Lungs of Infants with Cystic Fibrosis’. Barry was awarded a prestigious postgraduate **research fellowship by the National Health and Medical Research Council of Australia in 2007, Best Researcher award from the Victorian Branch of the Thoracic Society of Australia and New Zealand 2007, the Royal Children’s Hospital Melbourne Research Award 2007 and the CIPP International Congress on Pediatric Pulmonology International Young Investigator of the Year Award 2008.** His MD thesis was awarded 2008.
 - **MPhil thesis** (via the University of Melbourne) of Ms Anne-Marie Gibson awarded 2011
- **I am also supervising a Post-doctoral research scientist.**
 - **Dr Emily Hart, PhD (microbiology) from 2010**

AWARDS

- **British Paediatric Respiratory Society Award, 2000.**
- **British Paediatric Respiratory Society Award, 2001.**
- **Cystic Fibrosis Trust UK Research Award, 2001**
- **Distinction viva in final surgery ChB.** Sheffield University Medical school (Top five students of 155 year total)

ACHIEVEMENTS OUTSIDE MEDICINE

Football (soccer)

I represented England in the inaugural World Cup for doctors in Barcelona, Spain 1998.
I coach grassroots soccer in Melbourne.

SUMMARY

I believe that I have demonstrated clinical, research and educational leadership within the field of respiratory medicine both at a national and international level. I have demonstrated an ability to conduct research that is successful, ethical and productive despite full-time clinical appointments. In addition, I have made a substantial contribution to the training of future doctors, paediatricians and respiratory physicians.

REFEREES

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