

CURRICULUM VITAE: ROBERT BOOY

Date of birth: 19th September 1961
Place of birth: Brisbane, Australia
Nationality: Dual: Australian/Dutch
Address: Work: National Centre for Immunisation Research & Surveillance of Vaccine Preventable Diseases
Kid's Research, Sydney Children's Hospital Network, Westmead NSW 2145, and
Westmead Institute of Medical Research, 176 Hawkesbury Road, Westmead, NSW, 2145
Home: 5 Winslow Street, Kirribilli, NSW 2061
Contact Tel: Home: 61 2 9460 3408
Work: 61 2 9845 1415
Mobile: 61 423 800 128
E-mail: robert.booy@health.nsw.gov.au

Present position

2019-current Senior Professorial Fellow
Child & Adolescent Health, Sydney Medical School, University of Sydney,
The Children's Hospital at Westmead

Educational background

1984 MBBS (Hons), University of Queensland (University of Qld)
1988 Passed examinations for Fellowship of Royal Australasian College of Physicians (FRACP, Paediatrics)
1992 FRACP
1997 UK CCST and MRCPCH
1998 MSc, University of London
1999 FRCPCH
2000 MD 'Hib: epidemiology and evaluation of vaccination', University of Queensland

Prizes/Awards

1982 Princess Marieke Relief Fund Scholarship (Netherlands Government)
1983 Finalist in Occupational Health prize (Uni of Qld)
1984 Elsie Butler Wilkinson prize in Child Health for highest mark achieved in 5th & 6th year paediatric courses (University of Qld)
1995 Michael Blacow Memorial Prize (BPA) - co-author of winning presentation
1996 Wellcome Training Fellowship in genetic epidemiology (1996-1999)
2008 Annemarie Schimmel Award (UK national award) for furthering a Muslim cause (Muslim News Award)
2008 Medical Media Award, Australia
2009 The Best Abstract Award at Excellence in Paediatrics (Florence) for "The safety of repeated administration of reduced-antigen-content of dTpa boosters"
2013 Applicant (CIB) on NHMRC grant awarded as one of "10 of the Best publications" in Australia by NHMRC
2016 NHMRC Practitioner Fellowship (2016-2020)

Past Appointments

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| 2008-2018 | Head of Clinical Research, National Centre for Immunisation Research and Surveillance, Westmead, NSW |
| 2005-2008 | Co-Director, National Centre for Immunisation Research and Surveillance, Westmead, NSW |
| 1999-2005 | Professor/Head, Department of Child Health, St Bartholomew's & Royal London Medical and Dental School, Queen Mary & Westfield College, University of London, U.K. |
| 1996-1999 | Wellcome Fellow in Epidemiology/Lecturer in Paediatric Infectious Diseases |
| 1994-1996 | Lecturer in Paediatric Infectious Diseases, St Mary's Hospital, London, U.K. |
| 1993 | Lecturer in Paediatric Infectious Diseases/HIV, John Radcliffe Hospital, Oxford, U.K. |
| 1990-1992 | Research Registrar, John Radcliffe Hospital, Oxford, U.K. |
| 1987-1990 | Registrar, Royal Children's Hospital, Brisbane |
| 1986 | Junior House Officer, Royal Brisbane & Royal Children's Hospitals |
| 1985 | Intern, Royal Brisbane Hospital |

Selected Highlights

1. Over 60 grants since 2005; approx. AUD \$22 million ; CI on 2 recent NHMRC CREs and CIA on 2 ARC linkage grants
2. 22 doctoral students under supervision since 2005, 10 completed, 10 making good progress
3. > 330 publications (>180 since 2010) with 20 in The Lancet (includes 6 original papers and 2 editorials);
4. H factor 42 (Web of Science); 4,500 citations of published work
5. A senior medical advisor to Polio Australia and Lung Foundation of Australia
6. Co-Founder/Leader Society of Independent European Vaccine Experts (SIEVE) 2000-2005
7. Founder Health at Hajj and Umrah research group (HAHU) in 2001-current
8. Founder/Leader Chainofprotection.org 2008-current
9. Co-Founder new National Charity 'Meningococcal Australia' 2011-current
10. Chair Australian DOHA Measles Elimination Verification Committee 2014-2017, Deputy Chair 2012-2014, current Committee member
11. Member of 2 specialist committees advising Australia's Chief Medical Officer on Pandemic Influenza: Vaccination Advisory Group (VAG) and Specialist Influenza Advisory Group (SIAG) 2006-2009
12. Member of National Influenza Vaccine Strain Determination 2012-current
13. Lectured >30 times on Immunization Updates to GPs across Australia over 4 years for Medicare Local Alliance;
DVD of lecture sent to every GP practice in Australia in 2012/13 (35,000 distributed)
14. Executive Board member Immunisation Coalition/Influenza Specialist Group from 2012; Chairman since 2018
 - o Launched many national media campaigns to promote influenza and pneumococcal awareness and vaccination
 - o Developed healthcare worker educational videos: tens of thousands of copies distributed, extensive views on You-Tube
15. Chairman, Scientific Advisory Committee Confederation of Meningitis Organisations 2011-2018
16. Member Meningococcal Education Board 2005 - 2010; 2014-current
 - o Spokesman for educational DVD "Managing Meningococcal Disease: A Guide for Health Professionals" distributed to all hospitals in NSW and also elsewhere
17. Founded science education format "Omega: The End of Disease" with financial support from 6 major Pharma, 2014-current

Supervisor/Associate Supervisor of 27 post-graduate research students (18 completed, 17 doctorates, 9 in progress):

Candidates are/were paying international fees

* Robert BOOY is/was Associate Supervisor

Current students: primary supervisor unless otherwise indicated

1. # Dr Osamah Barasheed PhD commenced 2011 ***“Health at Hajj: Knowledge, attitudes and health issues of Australian pilgrims on prevention from infectious diseases at Hajj”*** He has over 15 publications and in February 2018 was appointed Head of the Preventative Medicine Department at King Abdullah Medical City – Makkah, Saudi Arabia.
2. # Dr Almamoon Badahdah, commenced February 2015 ***“Meningococcal carriage, disease and vaccination”***. Submitted June 2019
3. *Dr Sandra Steele PhD, commenced 2016, part-time, ***“Knowledge, attitudes and practices of GPs and veterinarians with respect to EIDs and zoonoses”***
4. Christian Jones, commenced 2018, Proposed Thesis Title: ***“The control of influenza outbreaks in nursing homes”***
5. # Dr Jing Shan, commenced 2018, Proposed Thesis Title: ***“RSV disease prevention:”***
6. Dr Erika Goldbaum, commenced January 2019, Proposed Thesis Title ***“Exercise and Vaccination”***
7. Ellen Camenzind, commenced July 2019, Proposed Thesis Title: ***“HPV: Epidemiology and prevention”***
8. # Saeed Alshariff, commencing January 2020, ***“The Role of Hand Hygiene in the Prevention of Respiratory Infections at Hajj”***
9. # Hashim Mahdi, commencing January 2020, ***“The Role of Hand Hygiene in the Prevention of Gastro Infections at Hajj”***

Completed Students

1. Dr Joanna Tully MD 2006 ***“Risk and protective factors for the development of meningococcal disease in adolescence: A biopsychosocial investigation”***
2. Dr Jenny Borg PhD 2007 ***“Social, psychological and functional outcomes after meningococcal disease in adolescents: A longitudinal population-based case-control study”***
3. Dr Holly Seale PhD 2008 ***“The Epidemiology of Severe Cytomegalovirus (CMV) Infection in Australia”***
4. Dr Harunor Rashid MD 2008 ***“Epidemiology of respiratory infections associated with Hajj pilgrimage”***
5. Dr Nitu Sengupta MD 2009 ***“Molecular epidemiology of varicella zoster virus in Europe”***
6. Dr Haitham el Bashir MD 2009 ***“The epidemiology and prevention of meningococcal disease in England and Wales (1993-2002): with particular reference to serogroups C and W135”***
7. Dr Shamez Ladhani PhD 2011 ***“Investigations into the long-term impact of H influenzae serotype b (Hib) immunisation on invasive Hib disease, with particular emphasis on children with Hib vaccine failure”***
He now holds a senior position at Public Health England, lead epidemiologist, several national vaccine-preventable programs
8. Dr Kevin Yin PhD 2013, ***“Epidemiology and Economic Impacts of Healthcare Interventions to Control Influenza: Implications for Policy”***
9. Dr Gulam Khandaker PhD 2013 ***“The Epidemiology, Control and Management of Influenza”***
10. Dr Maria Chow PhD 2013 ***“The psychological and social impact of influenza-like-illness in children on their families”***
11. Dr Andrea Meehan 2014 ***“Nasopharyngeal carriage of Streptococcus pneumoniae in HIV positive Tanzanian children and their primary caregivers”***. Honours degree in Medical Science, University of Western Australia
12. *Dr Phil Britton PhD 2017 ***“Childhood Encephalitis in Australasia: in search of new infectious aetiologies, standardized guidelines and opportunities for prevention”***
13. # Dr Mohamed Tashani PhD 2017 ***“Conjugate vaccines: interactions and interferences”***
14. * # Dr Amani Alqahtani PhD 2017 ***“The risk of respiratory tract infections among Australian Hajj pilgrims and the effectiveness of health preventive measures during the Hajj”***
15. Dr Jean Li-Kim-Moy PhD 2018, ***“Influenza: Novel Aspects in Diagnosis, Management and Prevention in Children”***

- 16 Dr Rashmi Dixit PhD 2018 *“Respiratory Infections in Vulnerable Populations”*
- 17 *Dr Vivian Lee PhD 2019 *“The effect of exercise on vaccination pain and adverse events in adolescents and young adults”*
- 18 # Dr Mohammad Alfelali PhD 2019 *“Evaluating the effectiveness of influenza vaccine amongst Hajj pilgrims”*

International Collaborations include:

Queen Mary College, University College, Imperial College, London School Hygiene Tropical Medicine & St George Hospital Medical School (all University of London), University of Oxford, Public Health England; Universities in Bali & Lombok, Indonesia; Saudi Arabia’s Health Ministry; National Institute of Medical Research in Tanzania, Genome Institute Singapore.

GRANTS

Current Grants and Fellowships (as at March 2020)

1. ***Optimising protection against influenza in high risk patients with COPD: Innovative use of Vaxxi-patch*** , Booy R, Cunningham A et al, Peter Weiss Foundation, 2020-23, \$300,000
2. ***Acceptability and usability of the Micro-projection Array Patch applicator for vaccine delivery (Nanopatch) in various clinical settings*** Skinner R, Ross C, Booy R, NSW Health PhD Partnership Program 2020, \$100,000
3. ***Optimising Safety of Vaccine: approaches to safety of vaccines - causes, consequences and control of life threatening vaccine preventable infection.*** NHMRC Practitioner Fellowship 2016-2020, \$560,000, APP1110891. Booy R
4. ***Burden of ILI in Aged Care, Infection control and vaccine effectiveness*** (2 studies) Booy R, Bag S, Dwyer D et al, Sanofi Pasteur, \$200,000 + \$160,000, 2018-2020
5. ***Acceptability and usability of the Micro-Array Patch (MAP)Applicator in different clinical settings,*** Skinner R, Booy R, Davies C et al, NHMRC, Innovative Manufacturing CRC (MCRC)/ U.Syd/Vaxxas, \$450,000, 2018-2021.
6. ***Burden of flu in Aged Care Facilities: Validity of PCR diagnosis in the field,*** Booy R, Bag S, Dwyer D et al, Cepheid and Roche, \$50,000, 2018-2020
7. ***Flu-Care: An interactional App for outbreak management in Aged Care,*** Quinn E, Hsaio K, Booy R, RFF Rapid applied RF, SHP, \$100,000, 2019-2020

Grants Funded 2005 - 2015

1. ***Optimizing influenza immunity for pregnant women.*** NHMRC Project Grant 2015, App 1105282. Marshall H, Barr I, Booy R (CIC), Pena A, Blythe C, Boros C
8. ***National Surveillance of Invasive Meningococcal Disease in Australian Children (MENDIT Study) to identify clinical outcomes and disease impact, associated meningococcal serotypes and to determine risk factors for severe disease and sequelae.*** NHMRC Project Grant 2014 APP1086172. Marshall H, Booy R (CIB), Richmond P, Nissen M, Lahra M, Bent S, Haji Ali Afzali H
9. ***Meningococcal disease at Hajj: Vaccine effects on short-medium term meningococcal carriage.*** Qatar National Research Fund 2015 NPRP8-2446-3-539 Rashid H, Booy R et al
10. ***Comparing meningococcal carriage rates in Hajj pilgrims following vaccination.*** GSK, \$35,000
11. ***Severe after effects of meningococcal B disease.*** Confederation of Meningitis Organisations (COMO) \$55,000, 2014
12. ***Co-administration adult conjugate pneumococcal & meningococcal vaccines and dT_p.*** Robert Austrian Research Award – \$25,000 ISPPD, India, 2014
13. ***Reducing adverse reactions and boosting immune response to HPV vaccination with exercise.*** Edwards K, Booy R, Skinner R. Financial Markets for Children Grant No. 2014-233. \$150,000 over 2 years 2014 – 2015
14. ***Cluster randomised controlled trial to test the effectiveness of facemasks in preventing influenza, corona and other respiratory***

viruses among Hajj pilgrims. El Bashir H, Rashid H, Heron L, Barasheed O, Booy R, Ridda I, Dwyer D, Holmes E, Haworth E. Qatar National Research Fund (QNRF). Grant ID NPRP-6-1505-3-358. US\$698,503.40 2014 - 2015

15. **OMEGA proposal to teach immunisation science in high schools:** Booy R and Blirt, \$220,000+ combined from 6 separate pharmaceutical companies 2014 – 2015
16. **Discovering the infectious causes of unknown encephalitis cases using genomic approaches: the DICE study.** Jones C, Britton P, Booy R. \$18,000 Rebecca Cooper Foundation 2014
17. **DICE study – surveillance, sample collection, storage and shipping** Jones C, Booy R et al, Department of Health and Ageing, Surveillance Division 2013 \$150,000
18. **Vaccine Preventable Childhood Disability Fellowship.** Booy R AusAid ALAF Grant Agreement 65202 2013 \$31,020
19. **Review of the National Partnership Agreement on Essential Vaccine** Department of Health and Ageing Ian Haupt (R Booy a collaborator) \$150,000
20. **Development of an evidence compendium and advice on social distancing and other related measures for response to an influenza pandemic.** Booy R et al Department of Health and Ageing 2013 \$87,000
11. **MENACWY-TT-106 EXT:HIB-MENC-TT-016 Y6,8,10: A phase IIIb, open, multi-center study to evaluate the immunogenicity, reactogenicity and safety of a booster dose of GSK Biologicals' MenACWY-TT vaccine administered at 6 years post-primary vaccination with either GSK Biologicals' Hib-MenC-TT vaccine (Menitorix™) or Hiberix™ and Meningitec™, in healthy subjects aged 12-18 months at primary vaccination and to evaluate the long-term antibody persistence at 2 and 4 years after MenACWY-TT booster vaccination.** Booy R. GSK \$200,000 2013-2017
12. **H030-014. Efficacy, immunogenicity, and safety study of Clostridium difficile toxoid vaccine in subjects at risk for C. difficile infection.** Heron L. Sanofi Pasteur. \$240,000 2013-2017
13. **V58_31: A Phase III, Observer blind, Randomized, Controlled, Multicenter Study to Evaluate the Safety of a Trivalent Subunit Influenza Vaccine Produced either in Mammalian Cell Culture or in Embryonated Chicken Eggs (Fluvirin®), in Healthy Children and Adolescents 4 to 17 Years of Age.** Heron I, Booy R. Novartis \$200,000 2013-2014
14. **RM08-3002 A Phase III Randomized Double-Blind Placebo Controlled Trial to Evaluate the Efficacy and Safety of Nitazoxanide and Nitazoxanide plus Oseltamivir in the Treatment of Acute Uncomplicated Influenza** Booy R, Heron L. Romark \$40,000 2013
15. **Immunisation Science Teaching** Booy R, Educational Grant BioCSL \$30,000 2013 - 2014
16. **Causes and consequences of encephalitis in children.** National Health and Medical Research Council (NHMRC) Early Career Fellowship, Personal support of AU\$ 251,000 for my PhD student graduated in 2013 Gulam Khandaker 4 years 2013-2016
17. **B1971014: A Phase 3, Randomized, Placebo and Active-Control, Observer-Blind Trial to Assess the Safety, Tolerability and Immunogenicity of a Meningococcal Serogroup B Recombinant Lipoprotein (rLP2086) Vaccine Given in Healthy Subjects Aged ≥11 to <26 Years.** Heron L, Booy R. Pfizer \$250,000 2012-2014
18. **Rolex Laureate Award 2012 for Nanopatch Researcher's recognising pioneering efforts to expand knowledge and improve human life. Nanopatch Technology – using the Nanopatch as a practical device to improve vaccines for low-resource regions, clinical usability trials in PNG** Kendall M, Mola G (PNG MRI), Booy R, Brotherton J \$100,000
19. **Investigation of IVIG Antibodies as Sentinel detectors of Past Meningococcal Strain B Infection, Cross-strain protection and for Vaccine Predictions for Universal Protection Against Future B strains.** Booy R et al. Caleb Thorburn Foundation 2013 -15 \$49,000
20. **Systematic Review of Adverse Events Following Trivalent Seasonal Influenza Vaccination (TIV) in Children.** Booy R, Li-Kim-Moy, J Department of Health & Ageing 2012 \$ 36,593.81
21. **Communication tools for explaining adult immunisation.** Booy R, MAVIG, Medicines Australia 2012 \$30,000
22. **Sydney Infectious Diseases and Biosecurity Research Network (SIBRN).** University of Sydney Research Networks Scheme (SyReNS). Sorrell TC, Bennett B, Booy R, Crawford J, Dwyer DE, Gilbert G, Giles F, Holmes AJ, Holmes EC, Hossain L, Iredell JR, Jones CA, Kesson AM, Kerridge I, Marais BJ, Simpson SJ, Sintchenko V, Ward MP, Werder O, Britton W, Dhand N, Hunter CL, Kamradt-Scott A, Mor SM, Salkeld G, Shaw T, Smith III FL, Wood N. 2012 \$125,000; 2013 \$125,000
23. **Vaccine trial to prevent acquisition of nasopharyngeal carriage of streptococcus pneumoniae in Tanzanian children with HIV/AIDS.** Booy R. Wyeth/Pfizer USA, 2013-14 \$130,000 USD
24. **Economic evaluation of influenza vaccination in Australian children** Booy R, Sanofi Aventis, Australia 2012 \$35,000

25. **CRE: NHMRC Centre for Research Excellence - Immunisation in understudied and special risk populations: closing the gap in knowledge through a multidisciplinary approach.** MacIntyre CR, McIntyre P, Booy R, Leask J, Wood N, Jones C, Menzies R, Kaldor J, Beutels P, Dwyer D. NHMRC CRE. Application ID 1031963. \$2,649,884 2012 – 2016
26. **CRE: NHMRC Centre for Research Excellence in Critical Infection.** Iredell J, Sorrell T, Gilbert G, Kerridge I, Booy R, Dwyer D, Webb S, Sintchenko V, Jones C, Bennett B. APP1001021. \$2.49 million over 5 years, with \$76,000 per year to CHW 2011-2015 Awarded 2010
27. **NHMRC Project Grant Adolescent Rural Cohort Study Hormones, Health, Education, Environments and Relationships.** 2011 APP1003312. Chief Investigators: Prof Katherine Steinbeck, Dr Catherine Hawke, Prof Philip Hazell, Dr Susan Rachel Skinner, A/Prof Rebecca Ivers, **Prof Robert Booy**, Prof Robert Cumming, Prof Gregory Fulcher 2011 – 2014 \$975,651.60
28. **FLU-SAFE: Prospective observational study of reactogenicity and safety of seasonal trivalent influenza vaccines (2011 formulation) in community and high risk children aged 5 to 18 years.** Buttery J, Booy R, Wood N. CSL Limited. February 2011 - August 2011 Stage 1 \$34,184 + Stage 2 \$240,000
29. **A Community Response to Avian Influenza in Bali and Lombok.** Hunter C, Toribio J-A, Hudson B, Booy R. \$50,000 2009 – 2011 Funded by World Health Organization (WHO)
30. **ARC: Social, economic and health benefits of vaccinating children in day care centres against influenza (PIVOT).** Booy R, Leask J, Sloots TP, Lambert SB. Extension of funding by Sanofi 2011 \$200,000
31. **CYD17 Lot-to-Lot Consistency and Bridging Study of a Tetravalent Dengue Vaccine in Healthy Adults in Australia.** Heron L, Booy R. \$620,047 2010 – 2012. Funded by Sanofi Pasteur
32. **An observation study on pharmacokinetics/pharmacodynamics and safety evaluation of oseltamivir treatment in infants under one year of age.** Booy R, Heron L, Khandaker. \$120,000 2010-2011. Funded by Roche Pty Ltd. Grant ID ML25453
33. **MOSAIC - Extension of case-control study of outcomes of Meningococcal B disease in UK children/adolescents that is informing UK DOH.** Viner R, Christie D, Booy R, et al. £50,000. Funding by Meningitis Trust approved February 2010.
34. **Nasopharyngeal carriage of streptococcus pneumoniae in Tanzanian children with HIV/AIDS and their primary caregivers.** Booy R. Wyeth/Pfizer Collegeville PA, Grant ID IOP 0887X1-4597, \$61,200 USD
35. **Characterisation of H1N1 Influenza 09 in hospitalised children using Paediatric Active Enhanced Diseases Surveillance.** Elliott E, Booy R, McIntyre P, Zurynski Y, Buttery J, Richmond P, Gold M, Marshall H, Royle J, Wood N. NHMRC H1N1 Medical Research Projects Fast-Tracked. Grant ID. 633028 8 July, 2009 \$118,513
36. **An Unblinded randomised study of influenza A/H1N1 09 resistance to oseltamivir and zanamivir.** Booy R, Dwyer D, Elliott E, Heron L, Khandaker G. NHMRC H1N1 Medical Research Projects Fast-Tracked. Grant ID. 633032 8 July, 2009-2010 \$149,460
37. **An unblinded, randomised study of influenza A/H1N1 2009 resistance under standard and double dose Oseltamivir treatment.** Booy R. Roche Products Pty Ltd. 2009 \$314,370
38. **Influenza Resistance Information Study (IRIS).** Protocol No. NV20237. Booy R. Roche Products Pty Ltd. 2009-2011 \$35,000
39. **A Phase II, Multicentre, Randomised, Observer-blind, Study to evaluate the immunogenicity, safety and tolerability of CSL's 2009 H1N1 Influenza Vaccine (CSL425) in Healthy Children Aged ≥ 6 months to < 9 years (CSLCT-CAL-09-60).** Booy R. CSL Limited 2009 \$258,240
40. **A Phase IV, Open Label, Multi-Centre Study to Evaluate the Safety and Tolerability of CSL Limited's Influenza Virus Vaccine in a Paediatric Population aged ≥ 6 months to < 18 years (CSLCT-USF-06-29).** Booy R. CSL Limited 2009 \$750,000
41. **ARC: Social, economic and health benefits of vaccinating children in day care centres against influenza (PIVOT).** Booy R, Leask J, Sloots TP, Lambert SB. ARC Linkage Grant LP0884126 with Sanofi Pasteur and KU Children's Services. 2008 \$99310; 2009 \$193,221; 2010 \$197,823; 2011 \$103,911 (plus \$240,000 Sanofi Pasteur 2008 - 2010) Extension of funding by Sanofi in 2010 – 2011 \$200,000
42. **Simple, observer-blinded randomised trial to prevent proven influenza in young children.** Booy R. \$50,000. University of Sydney Bridging Support Grant. November, 2008.
43. **A Phase IV, Randomized, Observer-Blind, Placebo-Controlled, Multi Centre Study to Evaluate the Efficacy, Safety and Tolerability of CSL Limited's Influenza Virus Vaccine in Adults aged ≥18 to <65 years (CSLCT-USF-06-28).** Chief Investigators include R Booy CSL

\$650,000 2008

44. **MOSAIC: Meningococcal Outcome Study in Adolescents & in Children.** Chief Investigators Prof R Viner, Prof R Booy and 6 others. Meningitis Trust (UK) Approx \$750,000 2008/10
45. **Phase III study to assess the long-term immunogenicity of a combined Hib & meningococcal C vaccine - five year follow up to assess Meningococcal C antibody persistence.** Chief Investigators include R Booy GSK \$400,000 2007/11
46. **An open cohort, non-interventional study, to describe anti-rSCP serum IgG antibodies and pharyngeal carriage of GAS and other *B haemolytic streptococcus* antigens in young children.** Chief Investigators include R Booy. Wyeth \$158,000. 2007/8
47. **Immunogenicity of reduced dose Southern Hemisphere trivalent split-virion influenza vaccine given to healthy adults.** Chief Investigators include Prof R Booy. \$200,000 Sanofi-Pasteur 2005
48. **Evaluating the antibody response and safety of combined Hiberix™/MenC vaccine (Hib-MenC-TT) when given as a single injection to 12-18 month old children when the MMR vaccine GSK's Priorix™ is given.** Chief Investigators include Booy R. \$300,000 GSK. 2006/7
49. **The burden of influenza related hospitalisations in children less than five years admitted to The Children's Hospital at Westmead.** Principal Investigator: Booy R; Co-Investigators: Iskander M, McIntyre P, Kesson A, McCaskill M, Dwyer D \$193,000 Sanofi Pasteur 2006-7 (NB Investigator-driven)
50. **Economic and Social Benefits of Treating and Preventing Influenza in Aged Care Facilities.** Chief Investigators: Booy R, MacIntyre CR, Lindley R, Dwyer D. ARC Industry Linkage Grant LP0668279. \$564,870.00 2006-8 (\$188,290.00 per year). Approx \$450,000 in kind Moran Health Care plus \$120,000. 2006-8 \$300,000 in kind from Roche plus \$145,000 cash 2006/8 (untied)
51. **Australian Paediatric Surveillance Unit: A collaborative network for child health research.** Principal Applicants: Elliott E, Bower C, Kaldor J, Booy R, Sullivan E. NHMRC Enabling Grant (402784). \$1 million over 5 years 2006-2010
52. **Immunogenicity of Two Dosages of the Inactivated, Split-Virion Influenza Vaccine Administered by the Intradermal Route in the Elderly.** Chief Investigators: Charvat S, Weber F, et al. (Sanofi), Booy R Sanofi Pasteur (GID16). \$180,000 2005/6
53. **Using Mathematical Models to assess responses to an outbreak of an emerged viral respiratory disease.** Chief Investigators: Becker N, Nolan T, Booy R. \$70,000 funded by Commonwealth Dept of Health & Ageing 2005/6
54. **Analysis of genotypic variation of varicella zoster virus and how it influences severity of chickenpox in children.** 2005 European Society of Paediatric Infectious Diseases Research Fellowship awarded to Dr N Sengupta under the supervision of Professors J Breuer and R Booy. 80,000 Euro 2005-2007
55. **A Randomized, Observer-Blinded, Parallel-Group, Active-Control, Phase 1/2 Trial of the Safety, Immunogenicity, and Tolerability of 20 mcg, 60 mcg, and 200 mcg of Meningococcal Group B rLP2086 Vaccine in Adolescents Aged 8 to 14 Years** Chief Investigators include R Booy. Wyeth. \$6,500 (major issues with recruitment) 2006-2008
56. **Long term follow-up of children who developed invasive Haemophilus Influenza Type b (Hib) disease despite vaccination and characterisation of vaccine failure using large-scale immunogenetics.** European Society of Paediatric Infectious Diseases Research Fellowship awarded to Dr S Ladhani, under supervision of Professor R Booy. Collaborators Hibberd M, Moxon ER, Pollard A, Heath P, Ramsay M, 80,000 Euro 2005-2007
57. **A 10 year follow-up study of long-term immunogenicity of dTpa Boostrix in healthy adults.** Booy R. GSK \$300,000 2007/8
58. **Strategy Development Grant: G0701554 Influenza Transmission Strategy Development Group** Principal Investigator Prof J van Tam; Chief Investigators include R Booy Medical Research Council (UK) Funding approved 7 December 2007 \$110,000 2008/9
59. **Paediatric Active Enhanced Disease Surveillance.** Commonwealth Department of Health & Ageing. Elliott EJ, Zurynski Y, McIntyre P, Booy R, et al. \$110,000 pa 2007-2008

Grants 1996-2004

1. ***Influenza in Hajj pilgrims; near -patient testing and multiplex PCR.*** Principal applicants: Dr El Bashir, Dr P Coen, Prof R Booy. Budget £60,000, UK DoH awarded 2004 (1yr, administered through Academic Dept Child Health, Royal London Hospital, Queen Mary, includes O/H £10,000)
2. ***Clinical burden and pharmaco-economic analysis of influenza in infants and young children.*** Principal applicant: Prof R Booy. Budget £190,000 Grant-in-aid, Wyeth awarded Oct 2003 (1yr, administered through Academic Dept Child Health, Royal London Hospital, Queen Mary, includes O/H £45,000).
3. ***A study to compare a new combined vaccine to protect against meningitis with vaccines currently used in the UK.*** Principal Applicant at Royal London Hospital: Prof R Booy, Budget £80,380, GSK April 2003 (1.5 yrs, administered through Academic Dept Child Health, Royal London Hospital, Queen Mary, includes O/H £20,000). Due to delay in product supply from sponsor, the sponsor postponed study – expenses of £7,500 paid to Academic Dept Child Health, RLHospital
4. ***Antibody Responses to Experimental Tetravalent (A, C, Y and W-135) Meningococcal Diphtheria Toxoid Conjugate Vaccine*** Principal applicant Prof R Booy. Co-applicant Dr P Heath (St. George's Medical School) Budget £245,000 (1 yr, administered through Academic Dept Child Health, Royal London Hospital, Queen Mary, includes O/H £55,000) Aventis Pasteur April 2003.
5. ***Development of specific Quality of Life scale for adolescents/young adults after Meningococcal disease.*** Principal applicant Dr R Viner. Co-applicants Prof R Booy and Doctor D Christie. Budget £85,000 Meningitis Trust (June 2003; 2 yrs, UCL admin).
6. ***The transmissibility of meningococcus W135: mathematical modelling of a possible epidemic;*** follow-up grant for 2nd year. Principal applicant: Prof R Booy. Co-applicants: Dr H El Bashir, Dr PG Coen. Budget £32,000, Winter 2002/3 (1 yr, administered through Academic Dept Child Health, Royal London Hospital, Queen Mary). DOH £22,000 and GSK £10,000
7. ***Determining height and weight of RELACHS cohort.*** Principal applicants: Dr R Viner & Prof R Booy Budget £10,000 Child Growth Foundation awarded Summer 2002 (1 yr, Child Health, RLH)
8. ***Transmission of influenza within families: genetic homogeneity?*** Principal applicant: Prof R Booy. Co-applicant: Dr S Teo. Budget £10,000. Wyeth Grant-in-aid awarded Oct 2002 (1 yr, administered through Academic Dept Child Health, Royal London Hospital. Queen Mary).
9. ***Outcome of Pneumococcal Meningitis: A retrospective controlled cohort study with economic analysis.*** Principal applicant: Prof R Booy Budget £30,000 (6 month extension to previous grant) Meningitis Research Foundation awarded Sept 2002 (administered through Academic Dept Child Health, Royal London Hospital, Queen Mary).
10. ***Immunogenicity and safety of pneumococcal conjugate in children with sickle cell disorder.*** Principal applicant Prof R Booy. Co-applicants: Dr E Alexander Budget £10,000 Wyeth Grant-in-aid awarded Sept 2002 (1yr, administered through Academic Dept Child Health, RLH Queen Mary).
11. ***Clinical burden and pharmacoeconomic analysis of influenza in infants and young children.*** Principal applicant: Prof R Booy. Budget £189,000 Grant-in-aid, Wyeth awarded Sept 2002 (1yr, administered through Academic Dept Child Health, Royal London Hospital, Queen Mary, includes O/H £45,000).
12. ***Protective and risk factors for early sexual activity and contraception amongst black and minority ethnic adolescents in East London.*** Principal applicant: Dr R Viner. Co-applicants include Prof R Booy, Prof S Stansfeld. Budget £283,000 Dept of Health. Awarded Spring 2002 (2 yrs, UCL admin)
13. ***Aetiopathogenesis of acute Kawasaki Disease.*** Principal applicants Dr D Shingadia and Prof R Booy. Budget £30,000 The Tallerman Fund awarded Jan 2002 (2yrs, admin Ac Child Health, RLH).
14. ***The transmissibility of meningococcus W135: mathematical modelling of a possible epidemic.*** Principal applicant: Prof R Booy. Budget £40,000.Grants from Department of Health, £10,000, PHL South & East, £15,000 and GlaxoSmithKline, £15,000 worth of vaccines in kind – Winter 2002 (1yr, admin Child Health, Queen Mary).
15. ***Community-acquired lower respiratory infection – enhanced surveillance in East London.*** Principal applicant: Prof R Booy. Budget £98,500 Grant-in-aid, Wyeth awarded Aug 2001 (1 yr; administered through Academic Dept Child Health, Royal London Hospital, Queen Mary).

16. **Outcome of Pneumococcal Meningitis: A retrospective controlled cohort study with economic analysis.** Applicants: Prof R Booy, Dr R Viner, Prof ER Moxon, Dr D Christie, Dr K Knox. Budget £81,819. Meningitis Research Foundation awarded May 2001 (1 yr, administered through Academic Dept Child Health, Royal London Hospital, Queen Mary).
17. **Health and life expectations of young people in East London and the City.** Applicants: Prof S. Stansfeld, Prof R. Booy, Dr. R. Viner, Dr. M. Haines, Dr. J. Head, Dr. S. Taylor. Budget £105,000 East London & City Health Authority, Awarded June 2000 (admin. by Dept Psychiatry, Queen Mary).
18. **Epidemiological and genetic studies of atopic eczema in extended families from the Bangladeshi population of east London.** Applicants: Dr. D. Paige, Prof R. Booy. Budget £80,000. Royal London Hospital J.R.B. Awarded March 2000 (administered Dept Child Health, RLH, Queen Mary).
19. **Social, psychological and functional outcomes after meningococcal disease in adolescents: a longitudinal case-control study.** Applicants: Dr R Viner, Dr D Christie, Prof R Booy. Budget: £100,900. Meningitis Research Foundation; awarded October 1999 (2 yrs administered at UCL).
20. **Genetic factors determining susceptibility and severity of meningococcal disease.** Applicants: Dr M L Hibberd, Prof M Levin. Budget: £262,303. Collaborator: Prof R Booy (administered at St. Mary's Hospital Medical School, Imperial College) Application to Meningitis Research Foundation; awarded October 1999.
21. **Estimating the burden of Bordetella pertussis infection to paediatric intensive care units in London to inform vaccination policy in the United Kingdom.** Pasteur Merieux Connaught: £40,000 August 1998; further £15,000 granted January 1999. Smith Kline Beecham: £30,000 September 1998; further £25,000 granted February 1999. Applicants: Dr R Booy (RLH), Dr Natasha Crowcroft, Dr E Miller, Dr T Harrison, PHLS and CDSC, London (administered at CDSC, London).
22. **Risk factors for meningococcal disease in adolescence.** Meningitis Research Foundation. £109,000 over 2 years, awarded October 1997. MRF awarded further £34,000 for this project in December 1998 and £25,000 in May 2000 Applicant: Dr R Booy (administered at Institute of Child Health, London). Co-applicant Dr R Viner, Director Adolescent Medicine, GOS and Central Middlesex Hospital.
23. **Health-care delivery & the outcome of meningococcal disease.** Meningitis Research Foundation. A joint study of Imperial College Dept of Paediatrics at St Mary's Hospital and the Research Unit of The Royal College of Paediatrics and Child Health. I was not a named investigator but a collaborator and was instrumental in securing £40,000 extra funding from MRF in February 1999, and in the design and epidemiological supervision of the project
24. **Genetic epidemiology of meningococcal disease.** A Wellcome Trust training fellowship in clinical epidemiology held in Prof Peckham's Department of Epidemiology and Public Health-held jointly with Prof M Levin, St Mary's. £165,000 awarded March 1996 – completion August 1999

Teaching activity

- Extensive experience in speaking at national and international meetings, in teaching in both undergraduate and postgraduate settings and in running paediatric finals exams & OSCEs
- Chair: Barts & the London Child Health Undergraduate Teaching committee 2000

Conference organising committees (a selection below)

- Sydney 2013 Annual Influenza Symposium
- Melbourne 2011 WSPID: Meningococcal Expert's Meeting
- Melbourne 2011 WSPID: Meningococcal National Charity Meeting
- Melbourne 2009: Royal Australasian College Paediatrics. 'Adolescent Medicine'
- Adelaide 2008: Royal Australasian College Paediatrics. 'Infectious Diseases & the Paediatrician'
- London 2003: Royal Society Medicine. 'Autism: causes and treatment'
- Oxford 2003: SIEVE: 'Preventing Influenza in children'
- Monaco 2000: 'Good Vaccination Practice: Planning, Implementation, Evaluation'

Peer Review & Editorial Roles

- I regularly review papers for many medical journals, including:
 - Lancet;
 - BMJ;
 - Archives of Disease in Childhood
 - Journal of Infectious Diseases;
 - Vaccine, and >10 other journals
- Member of the Editorial Board of Journal of Pediatric Infectious Diseases (2006 to current)

Committee & Board Memberships

- National Verification Committee for Measles Elimination (DoHA) – since 7 December 2012. Chair since September 2014
- Australian Influenza Vaccine Committee – since October 2012
- NHMRC Research Translation Faculty – since August 2012
- Confederation of Meningitis Organisations (COMO) – Convener & Chair Scientific Advisory Committee since April 2011
- Polio Australia Clinical Advisory Group – Adviser 2010 -
- Journal of Infection and Public Health – Editorial Board Member 2007 -
- Paediatric Scientific Program Committee, Royal Australasian College of Physicians (RACP) 2007-2013
- Immunisation Coalition (previously known as the Influenza Specialist Group) - Director April 2012 - current
- Confederation of Meningitis Organisations (COMO), International
- Immunisation CCRE (Melbourne) Investigator's Committee & Scientific Advisory Committee 2007-2009
- Scientific Advisory Committee (sub-committee of the CHW Human Research Ethics Committee) 2011- current
- NCIRS Scientific Advisory Committee 2005 - current
- Scientific Influenza Advisory Group (SIAG), Office of Health Protection, DoHA
- Chief Medical Officer's Vaccine Advisory Group (VAG), Office of Health Protection, DoHA

Society Memberships

- Society of Independent European Vaccine Experts (Founder)
- Health at Hajj and Umrah research group (Founder)
- Royal College of Paediatrics and Child Health (Fellow)
- Royal Australasian College of Physicians (Fellow)
- British Paediatric Allergy, Immunology & Infectious Diseases Group
- European Society for Paediatric Infectious Diseases (ESPID)
- Vaccine Clinical Trialist Association (International)
- Expert advisor NSW Child Death Review (NSW Commission for Children & Young People) 2008
- Australian Society for Infectious Diseases (ASID) since September, 2006-
- The Encephalitis Society UK – Professional Member since February 2014

Media experience

- Many years' experience in giving interviews about infectious diseases and vaccination for television, radio and newspapers e.g: launched immunisation campaigns for 'chainofprotection.org' in 2010 and 2012
 - Produced a video on Pertussis disease and immunisation for education purposes, Nov 2001
 - Gave web cast on Influenza in children: treatment and prevention, Dec 2003
 - Participated in Radio 4, BBC influenza documentary, Feb 2004
 - 3 segments on Infectious Diseases for the ABC, 7.30 Report 2005-2009
 - Extensive interview for Catalyst 2013
 - 2005-19 regularly interviewed for all nightly news programs and both Channels 7 and 9 breakfast news programs
- Honorary Medical Advisor for Meningococcal Disease Medical Education Video, 2005
- Director & Medical Advisor – video promoting influenza vaccination of Health Care Workers, 2008
- Medical Producer/Presenter on approximately twenty 5-15 minute medical videos 2000-2015
- Winner Medical Media Award 2008 – for consistent contribution to media in the field of child health & vaccinations plus recognition for pioneering research in childhood vaccinations

Educational Videos/DVDs

- 'Tanzania pneumococcal video' (2019) <https://vimeo.com/383395469>
<https://wettransfer.com/downloads/df534481511f66b98e509b340f5bcfc920200226031854/3dc434dfe89b639c721200a7bb64e25420200226031854/5c413d>
- 'Severe paediatric flu' (2019) UniSyd teaching video, OptionsX Singapore <https://blirt.box.com/s/r5uetigbnpmg0bcoorm2bd57obxfrkkc>
- 'Anti-virals' (2019) Roche Australia https://www.roche-australia.com/en_au/perspectives/influenza-time-is-of-the-essence.html
- 'Why You Need a Flu Shot Every Year' (2018) Australian Academy of Science: <https://youtube/pnjF5ixXsM8>
- 'The Flu: Not a Cold, It's a Killer' (2018) BUPA, You-Tube, Immunisation Coalition
- 'Meningococcal Disease – Facts for Health Professionals' (2018) Australian Academy of Science <https://www.youtube.com/watch?v=-BGYUVBwpkx>
- 'Doctoring Little Mermaid' http://ftp.beyond.com.au:8000/_g9e8EZ5dshkABR
- 'Jabbed: Love, Fear and Vaccines' Scientific Adviser on SBS documentary (2013)
- 'Click, Clack, Buckle Up' video (2014) https://youtube/X-_IJM8QLU0
- *Update on Immunization for GPs, (2013)* Funded by DOH/Medicare Local Alliance, 35,000 copies distributed nationally
- 'Meningococcal Disease – Vaccinations Save Lives, Vaccines Save Nations' (August 2012) Launch of Meningococcal B Awareness campaign. Funded by Meningococcal Australia. Produced by Blirt!
- *Chain of Protection (2010)* - Funded by: MAVIG \$64,000 AUD www.chainofprotection.org
- 'Vaccination debate' ABC TV (2011) <https://www.youtube.com/watch?v=3TxqRoNgnLw>
- 'Stop Flu before it stops YOU – A healthcare worker's guide to influenza vaccination (2008) [Revised 2010 Can You Afford the Flu?] - Funded by educational grant from CSL Biotherapies \$20,000
- '5 Minutes to save a life: meningococcal disease' (2008) <http://www.youtube.com/mediaoneaustralia#p/u/34/ZUUCWWjilHQ> - Funded by: Nanovic Australia \$10,000
- 'Every second counts' Meningitis and meningococcal disease (2008) <https://www.youtube.com/watch?v=KdVa5jW2rko>
- 'Taming the Flu with Tamiflu' (2007) - Funded By: Roche \$10,000

- *'Managing Meningococcal Disease – a guide for health professionals'* (2005) - Funded by: The Amanda Young Foundation
- *'Pertussis – prevention is better than cure'* (2003) - Funded by: GlaxoSmithKline

Chairmanship

- Co-Chair, GSK Advisory board on meningococcal quadrivalent conjugate vaccine, October 2014, Singapore
- Chair and Present, 2nd Scientific Advisory Board Meeting for GC Mass Gathering, 28 – 29 April 2014, Saudi Arabia
- Chair, International Congress Paediatrics Workshop: Immunisation Champions, 25 August, 2013 Melbourne
- Chair, 6th CoMO Scientific Advisory Group conference, 8 August, 2013.
- Chair, 8th Australian Influenza Symposium Canberra, 4 October 2012. Roundtable discussion: *The ethics of influenza virus manipulations*
- Invited Speaker & Chair, GSK ESPID symposium "An Evening Against Rotavirus", 10 May 2012, Thessaloniki, Greece
- Co-Chair & Organiser, "Progress Towards Control of Meningococcal Disease Workshop", 15 November 2011, Melbourne
- Chair, Sanofi Symposium, WSPID 16 November, 2011, Melbourne. "New evidence in paediatric influenza: A high global burden efficiently reduced through expanded vaccination"
- Co-Chair, GSK Symposium, WSPID 16 November, 2011 "Strategies to reduce the burden of rotavirus gastroenteritis and of pertussis"
- Chair, Plenary Session, Australian Influenza Symposium, 7 October 2011, Melbourne.
- Chair, Pertussis Workshop Session "Vaccine Efficacy and vaccine schedules" 25-26 August 2011, Sydney
- Chair, Pfizer Pneumococcal Disease Breakfast Symposium (CDC Conference) 5 April 2011
- Chair, Sanofi Intanza Flu Intradermal Advisory Board Meeting. Hong Kong 2 September 2010
- Chair Sanofi Satellite Symposium "Innovative approaches to improve influenza vaccination towards tailor-made vaccines". Options for Control of Influenza Conference 5 September, 2010, Hong Kong.
- Co-Chair Novartis Vaccines Satellite Symposium "The importance of adjuvant technology in the battle against influenza". Options for the Control of Influenza Conference, 6 September, 2010, Hong Kong
- Chair, RACP Physicians Week, 17-20 May 2009, Sydney. Session: Refugees presenting to the ED and RACP Trainee Research Award presentations
- Chair, The European Scientific Working group on Influenza (ESWI), Portugal September 2008
- Chair, Australian Influenza Symposium Canberra, October 2008
- Chair, World vaccine congress 2008, Intercontinental Hotel, Sydney, Australia, October 2008.
- Chair, Charting winds of change in antiviral therapies, The European Influenza Congress, Vilamoura, Portugal, Sept 2008
- Judge for RACP Trainee Research award: RACP Congress 2008, Adelaide, Australia, May, 2008
- Chair, Vaccine development: What's the point?: RACP Congress 2008, Adelaide, Australia, May, 2008
- Chair, Music and Infectious Diseases: RACP Congress 2008, Adelaide, Australia, May, 2008
- St George Foundation annual fundraising Dinner: after-dinner speaker October 2007
- Co-Chair, Third International Clinical Trials Symposium, Improving Health Care in the New Millenium. Free Papers Session 1: Trial Recruitment Issues, September, 2007
- Chair, Forum for Influenza Readiness and Education, Nice, France, November, 2006
- Symposium leader, ICMDA International Conference, 'The global vaccine initiative – immunisation', Kurrajong Sydney, July 2006
- Chair, Monitoring Vaccine Preventable Diseases, 10th National Immunisation/2nd PHAA Asia Pacific Vaccine Preventable Diseases Conference, July, 2006
- Co-Chair, University of Sydney Infectious Diseases, Immunisation & Allergy Symposia for the 150th Anniversary of the Faculty of Medicine, University of Sydney, June, 2006
- Adelaide: South Australian Immunisation Symposium: Linking Science to a Shot in the Arm. "Vaccine Preventable Diseases: International and National Overview" April 2006
- Chair, Way ahead for vaccination schedule in UK, RCPCH ASM, York, April 2004

- Chair, Childhood immunisation conference, Royal Society of Medicine, London, March 2004
- Chair, Autism conference, Royal Society of Medicine, London, December 2003
- Meningococcal disease: a not so super infection of childhood, British Society of Paediatric Dentistry, London, October 2003
- Recent developments in immunisation, London GP refresher course, October 2002
- Risk factors for meningococcal disease in teenagers. Oxford, March 2002
- Vaccinating the immunocompromised. Wyeth Vaccine meetings, London, March 2002
- W135 Meningococcal disease: an emerging threat. NE Thames Regional Meeting, London, Feb 2002
- Epidemiology of meningococcal disease, St George's Hospital medical school, London, July 2001
- Benefits of UK immunisation program, European Vaccine Experts Workshop, Frankfurt, June 2001
- Pneumococcal Infection in Sick Cell Disease, Pneumococcal Workshop, Oxford, May 2001
- Chair, Launch of Prevenar pneumococcal vaccine, RCPCH ASM, York, April 2001
- Chair, National conference on Pertussis vaccination, Science Museum, London, November 2000
- Engaged in public debate on safety of Meningococcus Group C vaccine with editor of "What Doctors Don't Tell You", London, July 2000
- Immunisation Workshops for under-graduates, Queen Mary & Westfield College, May 2000/2001/2002/2003/2000

Lectures/Conferences Presentations:

- Invited speaker, NCIRS Vaccines in Public Health workshop, Westmead, 3 September 2018, *"Vaccines: challenges for the future"*.
- Invited speaker, Roche Respiratory Medical Education Dinner meeting, Sydney, 24 July 2018, *"The IPF patient journey from diagnosis to palliative care and how to manage influenza"*.
- Invited speaker, Australian College of Nursing Update for Health Professionals, Parramatta, 4 July 2018, *"Immunisation Update"*.
- Invited speaker, Immunisation Coalition Adult Immunisation Forum, Adelaide, 8 June 2018, *"Vaccination of Younger Adults – Meningococcal B, W & Y"*.
- Invited speaker, Merck Pneumococcal Vaccine Policy for Older Adults symposium, Melbourne, 16 April 2018, *"The Pneumococcal Vaccine Policy Landscape: Setting the Stage"*
- Keynote speaker, WHO Global Centre for MASS Gatherings Medicine conference, Riyadh, Saudi Arabia, 23 October 2017, *"Communicable Diseases at Mass Gatherings"*
- Invited speaker, NCIRS Vaccines in Public Health workshop, Westmead, 28 August 2017. *"Vaccines: challenges for the future"*.
- Invited speaker, Merck Asia Pacific Adult Vaccines Scientific Symposium, South Korea, 15 July 2017, *"Improving the Adult Vaccination Program"*.
- Invited speaker, Immunisation Coalition Adult Immunisation workshop, Melbourne, 29 June 2017, *"Pneumococcal Vaccines in the Elderly update"*.
- Invited Speaker, WHO informal consultation on Influenza Vaccine Response during the start of a Pandemic, Switzerland, 7 June 2017, *"Clinical trials for the first pandemic vaccines"*.
- Invited speaker, RCPA Viruses in May conference, Katoomba, 12 May 2017, *"Influenza and other vaccine preventable diseases of the elderly in aged care settings"*.
- Invited speaker, NCIRS Controlling Meningococcal Disease in 2017 conference, Westmead, 7 April 2017, *"Long term morbidity of meningococcal disease"*.
- Invited speaker, Merck Forum for Adult Vaccines, Kuala Lumpur, 16 March 2017, *"Pneumococcal Vaccination for Hajj and Umrah Pilgrims"*.
- Invited speaker, Sydney Children's Hospital Network Paediatric Update, Westmead, 17 November 2016, *"Immunisations – Challenges and Controversies"*.
- Invited speaker, SA Women's & Children's Health Network Vaccinology Update, Adelaide, 16 November 2016, *"Immunisation in the Elderly"*.
- Invited speaker, North-Western Melbourne PHN GP Education Day, Melbourne, 12 November 2016, *"Immunisation Update"*
- Invited speaker, Seqirus meeting, Sydney, 25 October 2016, *"Changing Landscape of Adult Immunisation and Zostavax on the NIP"*.
- Invited speaker, Polio Australia 2016 Australia-Pacific Conference, Sydney, 21 September 2016, *"Advances in the surveillance, control and elimination of polio"*.
- Invited speaker, Vaccines in Public Health Workshop, Westmead, 31 August 2016, *"Vaccines: Challenges for the Future"*.

- Invited speaker, Capital Health Network PHN Immunisation Education Seminar, Canberra, 23 August 2016, *"Clinical Theory and Practice of Immunisation"*
- Invited speaker, Q Station Lecture Series, Sydney, 5 June 2016, *"Preventing infectious diseases by vaccination"*
- Invited speaker, AGPAL 2016 Conference, Brisbane, 28 May 2016, *"Vaccines, immunisations and chronic diseases – the hot topic on everyone's health radar"*.
- Invited speaker, Fondation Merieux Vaccinology 2015 Symposium, Bangkok, 1 December 2015, *"Meningococcal Vaccines"*
- Keynote speaker, Gold Coast PHN, Queensland Immunisation Forum, Brisbane, 27 November 2015 *"Update on key issues in paediatric vaccination and opportunities for collaborative action"*.
- Invited speaker, WHO 11th Australian Influenza Symposium, Melbourne, 10 October 2015 *Risk of Influenza, MERS and other respiratory viral infections at Mass Gathering Events"*
- Invited speaker, HealthEd GP Education Day, Melbourne, 20 October 2015 *"Travel Medicine Update"*
- Invited Speaker, South Western Sydney PHN, GP Education Day, Bowral, 30 September 2015, *"Immunisation Update"*
- Keynote Speaker, Merck Respiratory Infectious Disease Symposium, Tokyo, 27 June 2015 *"Pneumococcal vaccination"*
- Keynote Speaker, NSW Immunisation Forum, Sydney, 25 Feb 2015. *"Influenza in 2015"*
- Keynote Speaker, NSW Secondary Science Teachers AGM, Sydney, 24 Feb 2015, *"Teaching science using immunization"*
- Invited Speaker, Q Station Lecture Series, 25 May 2014, Manly. *"Immunisation myths and truths"*
- Invited Speaker, The Portland Hospital Excellence in Paediatrics Conference, 17 May 2014, London. *"Children's Immunisations and Infections – current trends and future developments"*
- Chair and Presenter, 2nd Scientific Advisory Board Meeting for GCMG, 28–29 April 2014, Saudi Arabia.
- Invited Speaker, Biology, Earth & Environmental and Senior Science Conference 21 March 2014, The University of NSW. *"Vaccination – Science and Society"*
- Invited Speaker, Merck ISPPD Satellite Symposium *"Including Adult Vaccines under the Pneumococcal Umbrella"* 11 March 2014, India. *"Lessons Learned from Adult Vaccination Programmes (Australia NIP)"*
- Invited Speaker, Meningococcal Australia Parliamentary Breakfast 26 February 2014, Canberra. *"Clinical aspects of meningococcal disease"*
- Invited Speaker, Influenza Specialist Group (ISG) Annual Scientific Meeting and AGM 2-3 February, 2014, Melbourne. *"Relationship between pneumococcal pneumonia and influenza"*
- Invited Speaker, Novartis Dinner on Bexsero, 9 December, 2013, Melbourne VIC. *"Clinical overview of Meningococcal Disease"*
- Invited Speaker, Novartis Dinner on Bexsero, 4 December, 2013, Sydney NSW. *"Clinical overview of Meningococcal Disease"*
- Invited Speaker, Novartis Dinner on Bexsero, 2 December, 2013, Brisbane. *"Clinical overview of Meningococcal Disease"*
- Invited Speaker, Therapeutic Goods Administration (TGA), 29 November, 2013, Canberra. *"The paramount safety of influenza vaccination in Australian infants and children: The potential for ground-breaking safety research to address wider unanswered 'safety' questions"*.
- Invited Speaker, World Society of Paediatric Infectious Diseases (WSPID) 20 November, 2013, Cape Town, South Africa. *"Immunogenicity and safety of the HIB-MENC-TT conjugate vaccine in HIB-PRIMED toddlers: 5 year follow up"*
- Invited Speaker. The Science of Immunisation Conference. 31 October 2013, Newcastle NSW. *"Interaction of vaccines and vaccine development is in a dynamic period with novel vaccines and administration techniques."*
- Invited Speaker, 9th Australian Influenza Symposium, 4 October 2013, University of Sydney. *"TIV Safety in Children"*
- Invited Speaker, GSK Global External Speakers Training- Contemporary Knowledge of Vaccines, 17-19 September, 2013, Bangkok, Thailand. *"Current Evaluation and Assessment of Vaccine Safety"*
- Invited Speaker, GSK Vaccines Influenza Advisory Board *"Prevention of seasonal influenza: public health recommendations at the national and global levels"*, 3-4 September 2013, Cape Town, South Africa. *"Optimising Implementation strategies to maximise public health benefits"*
- Invited Speaker and Chair, Novartis Meningococcal B Symposium at the International Congress of Paediatrics, 28 August, 2013, Melbourne. *"Breaking New Ground in the Global Fight Against Meningococcal Serogroup B Disease"*
- Invited Speaker, Northern Sydney Medicare Local, 20 August 2013, Epping NSW *"Vaccine Preventable Diseases"*
- Invited Speaker, Australian Medicare Local Alliance, 14 August 2013, Mt Claremont WA *"Vaccine Preventable Diseases"*

- Invited Speaker, Australian Medicare Local Alliance, 15 August 2013, Albany WA *"Vaccine Preventable Diseases"*
- Invited Speaker, CRE Stakeholder Workshop - Immunisation policy for migrants, refugees and travellers. 9 August, 2013, UNSW. *"Immunisations and Mass Gatherings: experiences from the Hajj Sydney World Youth Day and the 2000 Sydney Olympics"*
- Invited Speaker, Nepean Blue Mountains Medicare Local, 29 July 2013, Lithgow NSW. *"Vaccine Preventable Diseases"*
- Invited Speaker, Australian Medicare Local Alliance, 16 July, 2013, Cairns QLD *"Vaccine Preventable Diseases"*
- Invited Speaker, Southern Adelaide-Fleurieu-Kangaroo Island Medicare Local, 25 June, 2013, Morphett Vale SA. *"Vaccine Preventable Diseases"*
- Invited Speaker, Medicare Local Northern Adelaide, 24 June 2013, Modbury SA *"Vaccine Preventable Diseases"*
- Invited Speaker, Australian Medicare Local Alliance, 18 June 2013, Sans Souci NSW. *"Vaccine Preventable Diseases"*
- Invited Speaker, ATAGI Presentation 13 June, 2013, Canberra. *"Influenza Vaccine Safety Report"*
- Invited Speaker, Oral Abstract Presentation A-534-0045-00699 at European Society of Paediatric Infectious Diseases (ESPID) Conference 31 May 2013, Italy. *"A systematic review of fever and febrile convulsion after inactivated trivalent influenza vaccine (TIV) in children"*.
- Invited Speaker, Merck Symposium on Preventing Diseases in Adults through Vaccination at ICN Conference, 20 May 2013, Melbourne. *"Pneumococcal Disease: Update on Prevention"*
- Invited Speaker and participant. 1st Scientific Advisory Board Meeting for Global Centre for Mass Gatherings Medicine (GCMGM) 29 April 2013, Ministry of Health, Kingdom of Saudi Arabia. Co-Chair *"Preventative Measures Working Group"* and *"Immunisation"* presentation
- Invited Speaker, Northern Territory Medicare Local. 23 April 2013 Alice Springs NT *"An update on Immunisation and Infectious Diseases in Australia"*
- Invited Speaker, Northern Territory Medicare Local. 22 April 2013 Darwin NT *"An update on Immunisation and Infectious Diseases in Australia"*
- Invited Speaker, Australian Institute for Bioengineering and Technology (AIBN) Seminar, 18 April 2013 *"Vaccine Scares and Successes"*
- Invited Speaker, Australian Medicare Local Alliance, 11 April 2013, Coffs Harbour NSW *"Vaccine Preventable Diseases"*
- Invited Speaker, Australian Medicare Local Alliance, 10 April 2013, Lismore NSW *"Vaccine Preventable Diseases"*
- Invited Speaker, ASID 19-20 March, 2013, Canberra. *"Vaccines for the Future"*
- Invited Speaker, Novartis Global Advisory Board Meeting on Meningococcal Carriage, 13 – 14 March 2013, London UK
- Invited Speaker, Australian Medicare Local Alliance, 25 February 2013, Hazelbrook NSW *"Vaccine Preventable Diseases"*
- Invited Speaker, Australian Medicare Local Alliance, 19 February 2013 Dandenong VIC *"Vaccine Preventable Diseases"*
- Invited Speaker, ISG Annual Scientific Meeting 3 February, 2013, Melbourne. *"Antiviral use in Nursing Homes"*
- Invited Speaker, AMLA, 21 November 2012, Broken Hill. *"Vaccine Preventable Diseases"*
- Invited Speaker, Oral Health Day, Westmead Hospital 8 November 2012. *"Influenza vaccination and the importance of flu vaccination for health care workers"*.
- Invited Speaker, Clinical Vaccinology Update 22 October, 2012, Parkville VIC. *"Vaccine Update: Influenza Vaccines"*
- Invited Speaker, SEIB Colloquium 12 October 2012, USYD. *"Encephalitis – A marker of emerging infections"*
- Invited Speaker, Northern Sydney Medicare Local, 26 September 2012, Macquarie Park NSW. *"Vaccine Preventable Diseases"*
- Invited Speaker, Sydney Medical School, 21st Century Medicine 12 September, 2012, USYD. *"Vaccine scares and successes"*
- Invited Speaker, North Coast Medicare Local, 9 August 2012 Coffs Harbour NSW. *"Vaccine Preventable Diseases"*
- Invited Speaker, North Coast Medicare Local, 8 August 2012 Ballina NSW. *"Vaccine Preventable Diseases"*
- Invited Speaker, North Coast Medicare Local, 7 August 2012 Murwillumbah NSW. *"Vaccine Preventable Diseases"*
- Invited Speaker, South West Sydney Medicare Local, 2 August 2012 Bowral NSW. *"Vaccine Preventable Diseases"*
- Invited Speaker, Inner West Sydney Medicare Local, 1 August 2012, Ashfield NSW *"Vaccine Preventable Diseases Update"*
- Invited Speaker, Hume Medicare Local, 25 July 2012, Albury NSW. *"Vaccine Preventable Diseases Update"*

- Invited Speaker, Inner North West Melbourne Medicare Local (INWMML), 24 July 2012, Parkville VIC. "Vaccine Preventable Diseases Update"
- Invited Speaker, UC Beyond in Rheumatoid Arthritis Symposium, 21 July 2012, Redcliffe QLD. "Guidelines for immunisation"
- Invited Speaker, Bio Nano Conference – Brisbane Convention Centre 19th July 2012. "Key innovative leaps in vaccine development"
- Invited Speaker, Joint 12th International Child Neurology Congress (ICNC) and 11th AOCCN Brisbane 28 May 2012 "H1N1 influenza and the brain: what have we learnt? Are we prepared?"
- Invited Speaker & Chair, GSK ESPID symposium "An Evening against Rotavirus", 10 May 2012, Thessaloniki, Greece.
- Novartis 4CMENB Global Advisory Board Meeting, 7 May 2012, Thessaloniki, Greece "Key Scientific Questions Relevant for 4CMenB Implementation: disease burden, effectiveness, safety evaluations, possible expectations of country authorities and others"
- Invited Speaker, Fundamentals of Immunisation Course 26-27 March 2012 Leolin Price Lecture Theatre, London. "Vaccines in the pipeline and update on existing vaccines"
- Invited Speaker, ACT Medicare Local, 15 March 2012, Canberra ACT. "Vaccine Preventable Diseases"
- Invited Speaker, Vaccines in Public Health "Learning and Development" workshop for DoHA, Canberra, 6 March 2012. "Basic immunological principles"; Immunisation: myths and realities"; and "Vaccines of the future: technologies and pipelines"
- Invited Speaker, Influenza Specialist Group Annual Scientific Meeting 5-6 February 2012 "An overview of immunogenicity and on effectiveness of pandemic vaccines"
- SEIB Colloquium 23 November, 2011. "Vaccine safety – communicating benefit vs risk at the personal and public health level"
- WSPID 16 November, 2011 Advocacy for immunisation internationally
- GSK Symposium, WSPID 16 November, 2011. "Pertussis – not just a child's disease"
- WSPID Oral Presentation November, 2011. "Immunogenicity and safety of the Hib-MenC-TT conjugate vaccine in Hib-primed and MenC-naïve toddlers: 3 year follow-up"
- INSIG Biennial Study Day 30 September 2011, Melbourne. "Meningococcal Disease in Australia"
- European Society of Paediatric Infectious Diseases (ESPID) 7 – 11 June 2011, the Netherlands. Poster Presentations: "Severity of influenza in hospitalised children: comparison with other respiratory pathogens" and "Congenital and neonatal varicella: Impact of the national varicella vaccination program in Australia"
- Sanofi Intanza Leaders Training Programme 19 May 2011, Sydney. "The Picture of Influenza"
- Haemophilus Influenzae / Hib Symposium, 15 April 2011. "Hib vaccine failures – lessons from the UK"
- CDC Canberra Pfizer Pneumococcal Disease Breakfast Symposium 5 April 2011. "Long-term Outcomes of Pneumococcal Meningitis in Childhood and Adolescence"
- ASID 30 March – 2 April 2011, Lorne VIC. Poster Presentation "Immunogenicity and Safety of Pandemic Influenza A (H1N1) 2009 Vaccine: Systematic Review and Meta-analysis" on behalf of Kevin Yin
- The Canberra Hospital 2011 Paediatric Grand Rounds 1 February 2011, Canberra. "Vaccine safety – controversies and conquests"
- Public Health Director's Forum 23 February 2011, North Sydney. "Immunisation Research at NCIRS: practical applications"
- Invited speaker Australian Defence Force 10 November, 2010, Canberra for CSL. "Vaccination against Neisseria meningitidis in the Military".
- Invited speaker Immunisation Nurses Special interest Group (INSIG) Study Day, 29 October, 2010, Melbourne. "Chain of Protection"
- Invited speaker 6th Australian Influenza Symposium Canberra 7-8 October, 2010. "A review of clinical aspects of H1N1 pandemic influenza"
- Invited Speaker at Roche Satellite Symposium 25 September, 2010, Taiwan. 5th Asian Congress of Pediatric Infectious Diseases (ACPID). Abstracts "The use of antivirals at extremes of age: under 1 year and over 65 years"; and "Pandemic influenza: epidemiology, prevention and treatment".
- Options for the Control of Influenza Conference 1-8 September 2010, Hong Kong.
 - Sanofi Satellite Symposium 5 September 2010 "The intradermal route - the new way to immunise against influenza"
 - Roche Ltd 6 September 2010 "Pandemic (H1N1) 2009: implications for the management of seasonal influenza"

- PHAA 12th National Immunisation Conference 17-19 August 2010, Adelaide. Abstract: *Decennial Administration of a Reduced-Antigen-Content dTpa Vaccine (Boostrix™) in Adults*. Robert Booy, Su-Peing Ng, Froilan Celzo, Olivier Van Der Meeren, Jeanne-Marie Jacquet
- European Society for Paediatric Infectious Diseases, Nice May 2010 - Oral Presentation: *“Possible harms of Oseltamivir – interpreting safety in context of the H1N1 09 pandemic”*
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30 August 2011 Rapid Reaction: Bird Flu rears its head again

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16 August 2010 Science Blog: The Pandemic that never was..... because it was dealt with

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Launched in March 2011, The Conversation is an independent source of information, analysis and commentary from the university and research sector.

9 October 2012 - **Measles outbreak calls for vaccination vigilance**

<http://theconversation.edu.au/measles-outbreak-calls-for-vaccination-vigilance-10042>

13 July 2012 - **Explainer: flu season 2012**

<http://theconversation.edu.au/explainer-flu-season-2012-8210>

7 September 2011 - **Protecting our elderly: beating flu outbreaks in nursing homes**

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19 August 2011 - **Having a crack: what do chiropractors know about vaccinations?**

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