

## Curriculum Vitae

Professor Jennifer Anne Doust

BMBS, BA, BEcons, Grad Dip Clin Epi, FRACGP, PhD

### CURRENT APPOINTMENT

**Professor of Clinical Epidemiology**, Centre for Research in Evidence Based Practice, Bond University

### ACADEMIC QUALIFICATIONS

#### Degrees:

**PhD**, "Managing uncertainty in diagnostic decision making: BNP and the management of heart failure" supervised by Professors Paul Glasziou and Annette Dobson, University of Queensland, 2006.

**BMBS**, Flinders University of South Australia, 1993.

**BA (Asian Studies)**, Curtin University 1983.

**BEcons**, University of Western Australia, 1981.

#### College Fellowships:

**FRACGP**, 2002.

#### Diplomas:

**Graduate Diploma (Clinical Epidemiology)**, Newcastle University, 2000.

**Cost-Effectiveness Analysis for Medical Technologies and Pharmaceuticals**, Harvard School of Public Health, Summer School, 1999.

**Diploma of Advanced Japanese**, Keio University, Tokyo, 1983.

### EMPLOYMENT HISTORY

Since graduating in medicine, I have worked in positions that have combined my academic interests in evidence-based practice, health care decision making and general practice.

## Previous Positions:

**Professor of Public Health**, Faculty of Health Sciences and Medicine, Bond University. April 2008 to June 2010. Co-ordinator of the Health and Societies Theme, Bond University Medical Program.

**Associate Professor**, School of Medicine, University of Queensland. January 2007 to March 2008.

**Senior Research Fellow in Clinical Epidemiology**, Joint appointment School of Medicine/School of Population Health, University of Queensland, July 2005 to December 2006.

**Senior Research Fellow in Clinical Epidemiology**, Screening and Test Evaluation Program, Centre for General Practice, University of Queensland. 2003-05.

**NHMRC Doctoral Fellowship**, University of Queensland, 2001-2002.

**Lecturer, Australasian Cochrane Centre**, Department of Evidence-Based Care and General Practice, Flinders University, 1998-2000.

**Academic Research Registrar**, Department of Evidence-Based Care and General Practice, Flinders University, 1997.

## NATIONAL AND INTERNATIONAL PROFESSIONAL POSITIONS

### *Current positions:*

- **Member**, Pharmaceutical Benefits Advisory Committee since 2009
- **Member**, Economic Sub-Committee of the Pharmaceutical Benefits Advisory Committee since 2005
- **Member**, Diagnostic Expert Advisory Group, National Prescribing Service since 2010
- **Member**, Public Health Panel for NHMRC Project Grant Panel since 2009
- **Member**, Working Group for Cochrane Collaboration Systematic Review of Diagnostic Test Accuracy since 2004
- **Editor**, Acute Respiratory Infections Review Group, Cochrane Collaboration since 2006

### *Previous positions:*

- **Chair**, Thomas Chalmers Award Committee. This committee selects the best methodological paper at the Cochrane Colloquium each year since 2008
- **Member**, Standing Committee on Research, RACGP 2006-2008
- **Chair**, Internal Medicine and Chronic Conditions Curriculum Review Working Group, RACGP 2006-2008
- **Member**, Expert committee for Medicare Services Advisory Committee on BNP (RACGP nominee), 2007
- **Member**, Australian Centre for Evidence Based Practice Steering Committee, 1999-2000
- **Member**, committee for the development of the Australia Cancer Network's "Guidelines for the Management of Ovarian Cancer", 2000
- **Member**, committee for the development of the Australia Cancer Network's "Consumer Guide for the Management of Localised Prostate Cancer", 1998-1999

- **Member**, the National Prostate Cancer Collaboration Education Group, 1998-1999

#### **SCHOLARSHIPS, AWARDS AND PRIZES**

- **AAAGP Most Distinguished Paper Award**, GP and PHC conference, Sydney 2007.
- **RACGP Prize best presentation and best first presentation**, Gold Coast, 2003.
- **PhD Top-Up Scholarship**, Screening Test Evaluation Program, 2002.
- **NHMRC Public Health Research Scholarship**, 2001-2002.
- **Chancellor's letter for academic excellence**, Flinders University of South Australia, 1987.
- **Western Australian Government Japanese Studies Scholarship**, 1983.
- **Japan Foundation Travel Award**, 1980.
- **Dean's letter of commendation, UWA**, 1979.
- **CVF Clarke Undergraduate Scholarship**, 1977-78.

## GRANTS

### ***Current NHMRC Research Support***

- 2007: Doust J, Glasziou P, Van Driel M and Del Mar C. Implementation of absolute risk assessment in the prevention of ischaemic heart disease in general practice. **NHMRC General Practice Clinical Research Grant**. \$510,981. NHMRC ID 511217.
- 2005: Stocks N, Justin Bielby, Andrew Murphy, Jenny Doust, Philip Tideman. Provision of secondary cardiac preventive care in Australian general practice. **NHMRC General Practice Clinical Research Grant**. \$499,513. NHMRC ID 349574.

### ***Previous NHMRC Research Support***

- 2001: **NH&MRC Public Health Postgraduate Research Scholarship**. \$81,000. NHMRC ID 143130.

### ***Previous Research Support From Other Sources***

- 2005: Jonathon Mant, Richard Hobbs, Martin Cowie, Paul Glasziou, Jenny Doust, Theresa McDonagh, David Mant. Systematic review and individual patient data meta-analysis of diagnosis of heart failure with modelling of the implications of different diagnostic strategies in primary care. **UK HTA grant**. £111,835.
- 2006: Claire Jackson, Caroline Nicholson, Jenny Doust and John O'Donnell. Integration, co-ordination and multidisciplinary care in Australia – growth via appropriate governance arrangements. **Australian Primary Health Care Research Institute Stream 4 Grant**. \$155,000.
- 2004: Doust J, Del Mar C and Glasziou P. Reliability of BNP testing for monitoring heart failure, **RACGP-Pfizer Cardiovascular Research Grant**, \$18,800.
2003. Doust J, Bastian H, Foxlee R and Del Mar C. **National Institute of Clinical Studies tender** for literature review on “Consumers and the Internet”, \$16,500.
2002. Doust J, Sanders S, Pirozzo S, Pietrzak E, Francis D, Del Mar C and Glasziou P. **National Institute of Clinical Studies tender** for literature review on “The Diagnosis and Recognition of Congestive Cardiac Failure”, \$14,923.

## PUBLICATIONS

### *Peer Refereed Journal Articles and Cochrane Reviews*

1. Information from pharmaceutical companies and the quality, quantity, and cost of physicians' prescribing: a systematic review. Spurling GK, Mansfield PR, Montgomery BD, Lexchin J, Doust J, Othman N, Vitry AI. *PLoS Med.* 2010 Oct 19;7(10).
2. Hobbs FDR, Doust J, Mant J and Cowie M. Diagnosis of Heart Failure in Primary Care. *Heart.* 2010 Nov;96(21):1773-7.
3. Qualification versus validation of biomarkers. Doust J. *Scand J Clin Lab Invest Suppl.* 2010 Jul;242:40-3.
4. Doust J. Diagnosis in General Practice. Using probabilistic reasoning. *BMJ.* 2009 Nov 3;339:b3823.
5. Mant J, Doust J, Roalfe A, Barton P, Cowie MR, Glasziou P, Mant D, McManus RJ, Holder R, Deeks J, Fletcher K, Qume M, Sohanpal S, Sanders S, Hobbs FD. Systematic review and individual patient data meta-analysis of diagnosis of heart failure, with modelling of implications of different diagnostic strategies in primary care. *Health Technol Assess.* 2009 Jul;13(32):1-207, iii. Review.
6. Kay M, Mitchell G, Clavarino A, Doust J. Doctors as patients: a systematic review of doctors' health access and the barriers they experience. *Br J Gen Pract.* 2008 July 1; 58(552): 501–508.
7. Jackson CL, Nicholson C, Doust J, Cheung L, O'Donnell J. Seriously working together: integrated governance models to achieve sustainable partnerships between health care organisations. *Med J Aust.* 2008 Apr 21;188(8 Suppl):S57-60. Review.
8. Sanders S, Barnett A, Correa-Velez I, Coulthard M, Doust J. Systematic Review of the Diagnostic Accuracy of C-Reactive Protein to Detect Bacterial Infection in Nonhospitalized Infants and Children with Fever. *J Pediatr.* 2008 May 24.
9. Doust J, Del Mar C, Montgomery B, Heal C, Bidgood R, Jeacocke D, Bourke G and Spurling G. Evidence-based medicine (EBM) Journal Clubs in general practice. *Australian Family Physician.* 2008 Jan-Feb;37(1-2):54-6.
10. Blacksell SD, Bryant NJ, Paris DH, Doust JA, Sakoda Y, Day NP. Scrub typhus serologic testing with the indirect immunofluorescence method as a diagnostic gold standard: a lack of consensus leads to a lot of confusion. *Clin Infect Dis.* 2007 Feb 1;44(3):391-401
11. Roos JF, Doust J, Tett SE, Kirkpatrick CM. Diagnostic accuracy of cystatin C compared to serum creatinine for the estimation of renal dysfunction in adults and children--a meta-analysis. *Clin Biochem.* 2007 Mar;40(5-6):383-91.

12. Spurling G, Fonseka K, Doust J and Del Mar C. Antibiotics for bronchiolitis in children. *Cochrane Database Syst Rev.* 2007 Jan 24; (1):CD005189
13. Doust J, Lehman R, Glasziou P. The role of BNP in primary care. *American Family Physician*, 1 December, 2006.
14. Hoenig M, Doust J, Scott I and Aroney C. Early invasive versus conservative strategies for unstable angina & non-ST-elevation myocardial infarction in the stent era. *Cochrane Database Syst Rev.* 2006 Jul 19; 3:CD004815.
15. Spurling G and Doust J. Evidence-based answers – is salmeterol safe in asthma. *Australian Family Physician* 2006 Aug; 35(8):625-6.
16. Blacksell SD, Dondorp AM, Newton PN, Doust JA, Bell D, Peacock SJ and Day, NPJ. A systematic review and meta-analysis of the diagnostic accuracy of rapid immunochromatographic assays for the detection of dengue virus IgM antibodies during acute infection. *Transactions of the Royal Society of Tropical Medicine and Hygiene* 2006, March; 100 (8): 775-84.
17. Cooke G, Doust J, Sanders S. Pulse palpation to detect atrial fibrillation. *Family Practice* 2006 Feb, 55 (2): 130-134.
18. Spurling G, Doust J. Identifying health centers in Honduras infested with *Rhodnius prolixus* using the seroprevalence of Chagas' disease in children younger than 13 years. Submitted to *American Journal of Tropical Medicine and Hygiene Am J Trop Med Hyg.* 2005 Aug; 73(2): 307-8.
19. Doust J, Pietrzak P, Dobson A and Glasziou P. How well does BNP predict prognosis in heart failure: systematic review. *BMJ* 2005; 330 (7492): 625-633.
20. Doust J, Pietrzak E, Glasziou P and Sanders S. Identifying studies for systematic reviews of diagnostic tests was difficult due to the poor sensitivity and precision of methodologic filters and the lack of information in the abstract. *J Clinical Epidemiology* 2005; 58 (5): 444-9.
21. Doust JA, Glasziou PP, Pietrzak E, Dobson A. A systematic review of the diagnostic accuracy of natriuretic peptides for heart failure. *Arch Intern Med*, 2004; 164(18): 1978-84.
22. Doust J. Systematic review of brachytherapy. *Australian Family Physician*, 2004; 33(7):525-9.
23. Doust J. Diagnostic and management strategies for anaemia in adults. *Australian Family Physician*; 2003; 32: 889-894.
24. Doust J. Diagnosing patients with tiredness in general practice. *Australian Family Physician* 2003; 32 (8): 662.
25. Weller D, May F, Rowett D, Esterman A, Pinnock C, Nicholson S, Doust J and Silagy C. Promoting better use of the PSA test in general practice: randomised controlled trial of educational strategies based on outreach visits and mailout. *Family Practice* 2003; 20 (6): 655-661.

26. Ioannou GN, Doust J, Rockey DC. Systematic review: terlipressin in acute oesophageal variceal haemorrhage. *Alimentary Pharmacology Therapeutics* 2003; 17 (1): 53-64.
27. Ioannou G, Doust J, Rockey DC. Terlipressin for acute esophageal variceal hemorrhage (Cochrane Review). In: *The Cochrane Library*, Issue 1, 2001. Wiley.
28. Doust, J and Silagy, C. Applying the results of a systematic review in general practice. *Medical Journal of Australia* 2000; 172 (4): 153-156.
29. Hayward JA, Wearne SM, Middleton PF, Silagy CA, Weller DP and Doust JA. Providing evidence-based answers to clinical questions - A pilot information service for general practitioners. *Medical Journal of Australia* 1999; 171(10):547-550.
30. Doust J, Morgan T, Weller B and Yuill B. Patient desire for information before a total hip-replacement operation. *Medical Journal of Australia* 1989; 151 (4): 201-203.

*Letters, Editorials and Invited Commentaries*

1. Doust JA, Craig JC. Evaluating diagnostic tests-should the same methods apply? *Am Heart J.* 2008 Jul;156(1):4-6.
2. Doust J. Review: electrocardiography, BNP, and N terminal-pro BNP are more sensitive than specific for chronic left ventricular systolic dysfunction. *ACP J Club.* 2006 Jul-Aug; 145(1): 22.
3. Doust J. Case Study 40 – Assessing new evidence. Commentary for National Prescribing Service case study. February 2006.
4. Doust J. BNP and amino terminal proBNP assays did not differ for detecting congestive heart failure in the emergency department. *Evidence-Based Medicine.* Oct 2005, Vol 10; No. 5: 148.
5. Doust JA. Diagnostic accuracy of natriuretic peptides. *Arch Intern Med* 2005; 165 (10): 1199.
6. Lehman R, Doust J and Glasziou P. Cardiac impairment or heart failure – the importance of labels. *BMJ* 2005 Aug 20; 331 (7514):415-6.
7. Doust J. Review: Vaginal signs and symptoms perform poorly in diagnosing vaginal candidiasis, bacterial vaginosis, and vaginal trichomoniasis. *ACP Journal Club* 2004; 141: 47
8. Doust J and Del Mar, C. Why do doctors use treatments that do not work? *BMJ*, 2004 Feb 28; 328 (7438): 474-5.
9. Doust J and Del Mar, C. Diagnosing coughs and colds. *Br J Gen Practice*, 2004 Jan; 54 (498): 5-6.

10. Del Mar, C and Doust J. Research directions for treatment for acute otitis media (commentary). *BMJ* 2002; 325: 22.
11. Del Mar, C and Doust, J. What is Cochrane all about? *Australian Family Physician* 2002; 31: 1027-1030.
12. Doust J. Evidence-based practice in primary care (book review). *Australian Family Physician* 2002; 31: 1044.
13. Silagy C, Weller D, Middleton P, Doust J. General practitioners' use of evidence databases (letter). *Medical Journal of Australia* 1999; 170: 393.

#### *Books*

1. Del Mar C, Doust J and Glasziou P. *Clinical Thinking: Evidence, Communication and Decision Making*. Blackwell Publishing, May 2006.

#### *Book Chapters*

1. Doust J. Heart failure. *Evidence at hand*. Wiley-Blackwell (in press).
2. Sanders S, Doust J and Del Mar C, and Glasziou P. Acute Respiratory Infections. *Diagnosis in Primary Care* (Khot and Polmear, editors). Elsevier Publishing.
3. Doust J and Sanders S. Teaching Evidence Based Laboratory Medicine. *Evidence Based Laboratory Medicine* (Price and Christenson, editors) AACC Press. 2007

#### *Government or National Reports*

1. Australian Cancer Network's Working Party. "Guidelines for the management of women with epithelial ovarian cancer". 2004
2. Doust J, Bastian H, Del Mar C, Foxlee R and Pietrzak P. Consumers and the internet. Report to the National Institute of Clinical Studies, March 2003.
3. Doust J, Sanders S, Pirozzo S, Francis D, Pietrzak E, Del Mar C and Glasziou P. The Recognition and Diagnosis of Congestive Cardiac Failure. Report to the National Institute of Clinical Studies, May 2002.
4. Australian Cancer Network's Working Party. "Localised prostate cancer – a consumer guide". Australian Cancer Network, January 2002.
5. Tyler P, Slee S and Doust J. Evaluation by KPMG of General Practice Immunisation Incentives Program for Department of Health and Aged Care, 2000.
6. Australian Cancer Network's Working Party. "Evidence-based recommendations for the management of localized prostate cancer – clinical

practice guideline". Australian Cancer Network, September 2000. David Weller and I wrote the initial report to the working party on the evidence of effectiveness of the three main types of active treatment and no active initial treatment for localised prostate cancer.

7. Heard S, Grivel T, Doust J and Schoeffel P. "The benefits and difficulties of introducing a national approach to electronic health records in Australia". Report to Department of Health and Aged Care, April 2000.
8. Weller D, Pinnock C, Alderman C, Moss J and Doust J. Prostate cancer screening – Update of the 1996 AHTAC Report, 1998.
9. Solomon, PJ, Doust, JA and Wilson, SR. Predicting the course of AIDS in Australia and evaluating the effects of AZT: a first report. National Centre for Epidemiology and Population Health, Canberra, 1989.
10. Sloan, J and Doust, J. The female-male earnings gap in New Zealand: evidence and policies. National Institute of Labour Studies, Adelaide, 1988.

I was responsible for the following Medicare Services Advisory Committee reports in 1999 and 2000: These reports provided advice to the committee on the evidence of effectiveness and cost-effectiveness of interventions and diagnostic tests to inform the Committee's decision about the inclusion of these items on the Medicare Benefits Schedule. I supervised a team of four researchers in the preparation of these reports.

1. Oto-Acoustic Emission Audiometry.
2. OctreoScan® Scintigraphy.
3. Total Ear Reconstruction
4. PCR based testing for Hepatitis C
5. Brachytherapy for Localised Prostate Cancer

### Invited speaker:

1. Qualification versus Validation of Biomarkers, 12<sup>th</sup> Bergmeyer Conference on Biomarkers, International Federation of Clinical Chemists, Grainau, Germany, March 2010
2. Evidence Based Practice, Renal Nurses Workshop, Gold Coast, September 2009
3. Research and General Practice, Plenary for the Japan Family Medicine Association, Japan, December 2007
4. The application of Diagnostic Tests. Plenary for the Health Insurance Review Agency, Korea, September 2007
5. Evaluating Diagnostic Tests: the case of BNP, Plenary for Australian Association of Clinical Biochemists meeting, October 2006
6. Aids for deciding whether to participate in breast cancer screening. National Breast Cancer Consumer Forum, October 2005
7. The use of BNP in the emergency room, Accident and Emergency Registrars' Scientific meeting, Perth, April 2005
8. Academic GPs and the future of general practice. General Practitioner Registrars' Association National Meeting, Brisbane, August 2004
9. Challenges in Diagnostic Systematic Reviews, Cochrane Contributors' meeting, Sydney, June 2004
10. Plenary on obesity, General Practice and Primary Health Care-Research Conference, Brisbane, June 2004
11. Diagnosing bowel problems in general practice, Women's Health Conference, Gold Coast, February 2004
12. Plenary on Rational Test Ordering, University of Queensland School of Medicine Clinical Update for General Practitioners, Kuala Lumpur, October 2003
13. Evidence Based Medicine, Sunshine Coast Division of General Practice, Noosa, June 2003
14. Plenary on Evidence Based Medicine, Australian Research and Clinical Scientists conference, Sydney, June 2003
15. Antibiotics and Acute Otitis Media. Australian ENT Registrar Meeting, Brisbane, July 2002
16. Colorectal Cancer Guidelines: A GP's Perspective. Anti-Cancer Foundation, Adelaide, November 2000

17. The Cochrane Collaboration and Evidence Based Practice. Arthritis Foundation, Adelaide, August 2000
18. Dissemination of Research Findings in Practice. Collaborative Centre for Prostate Health meeting, Adelaide, December 1999
19. The Role of General Practitioners in Colorectal Screening, 1<sup>st</sup> Annual Collaborative Conference on Colorectal Cancer Prevention, Sydney, March 1999
20. Plenary session on Evidence Based Medicine, Nutrition Society of Australia Annual Conference, Adelaide, December 1998
21. Health Technology Assessment, Ultrasound Forum, Department of Health and Family Services, Sydney, June 1998