



The National Institute  
of Clinical Studies (NICS)

## NICS FELLOW 2004-2006

### Dr Shane Jackson

Research Pharmacist,  
*Tasmanian School of Pharmacy,*  
*University of Tasmania, TAS*



### Implementation Project:

*Reducing the risk of stroke in atrial fibrillation: a hospital-based risk stratification assessment and intervention program*

Using an evidence-based approach, Shane's project aimed to increase the use of anticoagulants (such as warfarin) in patients with atrial fibrillation (AF), where the benefits of these drugs clearly outweigh the risks. The use of anticoagulants in AF has been shown to reduce the risk of stroke in patients with AF (a rapid and irregular heart beat) by over two-thirds, but can be associated with an increased risk of bleeding complications in some patients.

### Funding Partner:

Dr Jackson's Fellowship is supported by the National Institute of Clinical Studies.

### Project Mentor:

#### **Professor Greg Peterson**

Unit for Medication Outcomes Research  
and Education, University of Tasmania,  
TAS

### NICS Mentor:

#### **Ms Kim Boyer**

Senior Research Fellow, Rural  
Health Policy and Service Planning,  
Department of Rural Health,  
University of Tasmania, TAS

### Awards:

2005 Young Pharmacist of the Year (awarded by Pharmaceutical Society of Australia)

### Professional Positions:

Chair, Australian Association of Consultant Pharmacy Board, 2007-

### Key Publications:

Bereznicki LR, Peterson GM, Jackson SL, Jeffrey EC. Antithrombotic treatment in atrial fibrillation. *Expert Opin Drug Saf.* 2006 Sep;5(5):597.

Bereznicki L, Jackson S, Peterson G, Jeffrey E, Marsden K, Jupe D. Accuracy and clinical utility of the CoaguChek XS portable international normalised ratio monitor in a pilot study of warfarin home-monitoring. *J Clin Pathol.* 2007; 60:311-314.

Jackson S, Naunton M, Peterson G. *Medication Adherence.* Sydney: Pharmaceutical Society of Australia; 2006.

Bereznicki LR, Peterson GM, Jackson SL, Jeffrey EC. The risks of warfarin use in the elderly. *Expert Opin Drug Saf.* 2006 May;5(3):417-31.

Bereznicki L, Jackson S, Peterson G. Anticoagulation self-monitoring education program: accredited pharmacist training. 1 ed. Hobart: UMORE; 2006.

Jackson SL, Peterson GM, Bereznicki LR, Misan GM, Jupe DM, Vial JH. Improving the outcomes of anticoagulation in rural Australia: an evaluation of pharmacist-assisted monitoring of warfarin therapy. *J Clin Pharm Ther.* 2005 Aug;30(4):345-53.

Jackson S, Peterson G, Bereznicki L. Accuracy, clinical usefulness and perceptions of community pharmacy based INR monitoring in rural Australia. *Journal of Clinical Pharmacy and Therapeutics.* 2005(30):345-53.

Bereznicki LR, Jackson SL, Peterson GM. The direct thrombin inhibitor melagatran/ ximelagatran. *Med J Aust.* 2005 Mar 7;182(5):254-5.

Bereznicki L, Jackson S, Peterson G. Closing the gap between evidence and practice. *J Pharm Pract Res.* 2005;35(3):173-5.

Jackson SL, Peterson GM, Vial JH, Jupe DM. Improving the outcomes of anticoagulation: an evaluation of home follow-up of warfarin initiation. *J Intern Med.* 2004 Aug;256(2):137-44.

Jackson SL, Peterson GM, Vial JH. A Community-Based Educational Intervention to Improve Antithrombotic Drug Use in Atrial Fibrillation. *Ann Pharmacother.* 2004 November 1, 2004;38(11):1794-9.

Jackson SL, Peterson GM, House M, Bartlett T. Point-of-care monitoring of anticoagulant therapy by rural community pharmacists: description of successful outcomes. *Aust J Rural Health.* 2004 Oct;12(5):197-200.

Jackson SL, Bereznicki LR, Peterson GM, Marsden KA, Jupe DM, Vial JH, et al. Accuracy and clinical usefulness of the near-patient testing CoaguChek S international normalised ratio monitor in rural medical practice. *Aust J Rural Health.* 2004 Aug;12(4):137-42.

Peterson GM, Jackson SL. Randomized trial of warfarin nomograms. *Ann Intern Med.* 2004 Mar 16;140(6):488; author reply 91-2.

Jackson SL, Bereznicki LR, Peterson GM, Marsden KA, Jupe DM, Tegg E, et al. Accuracy, reproducibility and clinical utility of the CoaguChek S portable international normalized ratio monitor in an outpatient anticoagulation clinic. *Clin Lab Haematol.* 2004 Feb;26(1):49-55.

Jackson S, Peterson G, Vial J, Jupe D. Suboptimal anticoagulant management in patients after hospital initiation of warfarin. *Aust Fam Physician.* 2004 Jun;33(6):477-8.

### Key Presentations:

Jackson S. Reducing the risk of stroke in atrial fibrillation: A hospital-based risk stratification assessment and intervention program [poster]. National Institute of Clinical Studies Symposium Using evidence: using guidelines. Melbourne; 2006.

Jackson S. The impact of barriers and enablers on guideline uptake [Panel discussion]. National Institute of Clinical Studies Symposium Using evidence: using guidelines. Melbourne; 2006.

Bereznicki L, Jackson S, Boland C, Marsden K, Vial J, Peterson G. An intervention to improve clinical outcomes for inpatients commenced on warfarin. National Institute of Clinical Studies Symposium Using evidence: using guidelines. Melbourne; 2006.

Peterson G, Jackson S, Tompson A, Bereznicki L. An evaluation of pharmacist-assisted anticoagulation after initiation of warfarin from hospital to community care. National Medicines Symposium 2006. Canberra; 2006.

Bereznicki L, Jackson S, Peterson G, Jeffrey E, Leong K, Lee J. The warfarin home-monitoring pilot study. National Medicines Symposium 2006. Canberra; 2006.

Bereznicki L, Jackson S, Boland C, Marsden K, Voute J, Jupe D, et al. An intervention to improve clinical outcomes for patients commenced on warfarin. National Medicines Symposium 2006. Canberra; 2006.

Vlassak EE, Jackson SL, GM P. Outcomes in the management of atrial fibrillation in North and South Tasmania. Society of Hospital Pharmacists of Australia Tasmanian State Branch Conference. St Helens, Tasmania; 2005.

Tompson A, Peterson G, Jackson S, Hughes JD, Raymond K. Medication knowledge, compliance and humanistic outcomes in the Med eSupport trial. Society of Hospital Pharmacists of Australia Federal Conference. Brisbane; 2005.

Tompson A, Peterson G, Jackson S, Hughes JD, Raymond K. Discrepancies in medication histories, utilising community pharmacy dispensing records and admission orders, in newly hospitalised patients: The Med eSupport trial. Society of Hospital Pharmacists of Australia Federal Conference. Brisbane; 2005.

Peterson G, Tompson A, Jackson S, Turner P, Hughes JD, Raymond K, et al. Utilisation and perceptions of a secure interactive website for patient medication histories by community pharmacists, general practitioners and patients: The Med eSupport trial. Society of Hospital Pharmacists of Australia Federal Conference. Brisbane; 2005.

Jackson S, Tompson A, Peterson G, Hughes J, Raymond K. Uptake and impact of four models of the home medication review process for high risk patients after hospital discharge: The Med eSupport Trial. Society of Hospital Pharmacists of Australia Federal Conference. Brisbane; 2005.

Bereznicki L, Jackson S, Vlassak E, al e. The use of thromboprophylaxis for venous thromboembolism (VTE) in hospitalised medical patients [poster]. Society of Hospital Pharmacists of Australia Federal Conference. Brisbane; 2005.

Bereznicki L, Jackson S, Boland C, Marsden K, Voute J, Jupe D, et al. An intervention to improve adherence to an initiation protocol and improve clinical outcomes for patients commenced on warfarin. Society of Hospital Pharmacists of Australia Federal Conference. Brisbane; 2005.

Jackson S, Bereznicki L, Peterson G, Fitch J, Fowler P. Review of the initiation of warfarin in Tasmania. Society of Hospital Pharmacists of Australia Tasmanian State Branch Conference. St Helens; 2005.

Bereznicki L, Vlassak E, Peterson G, Jackson S, Marsden K, Jupe D, et al. The use of thromboprophylaxis for venous thromboembolism in hospitalised medical patients at the Royal Hobart Hospital. Society of Hospital Pharmacists of Australia Tasmanian State Branch Conference. St Helens; 2005.

Bereznicki L, Jackson S, Vlassak E, al e. The use of thromboprophylaxis for venous thromboembolism (VTE) in hospitalised medical patients.

HSANZ/ANZSBT/ASTH Annual Scientific Meeting. Sydney; 2005.

Jackson S, Vial J. Community models for synergy between clinical pharmacologists and pharmacists to promote QUM: A focus on health-system change. 8th World Congress of Clinical Pharmacology and Therapeutics. Brisbane; 2004.

Jackson S, Peterson G, Taylor G, Taylor J. Workshop: Cardiology. Society of Hospital Pharmacists 4th Biennial Clinical Conference. Sydney; 2004.

Jackson S, Morgan S, Peterson G, Bereznicki L, Jupe D, Vial J. A review of the initiation of anticoagulation: Does a lack of adherence to guidelines result in an increased risk of adverse outcomes? Society of Hospital Pharmacists 4th Biennial Clinical Conference. Sydney; 2004.

Jackson S. Improving anticoagulant prescribing. Society of Hospital Pharmacists 4th Biennial Clinical Conference. Sydney; 2004.