



NICS SCHOLAR 2004-2007

Dr Luke Bereznicki

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Implementation Project:

Improving the safety and efficacy of anticoagulant drug therapy in clinical practice

This project aimed to improve the safety and efficacy of anticoagulants through trialling an anticoagulation pharmacist position in the hospital environment for six months. The project also involved, training newly initiated warfarin patients to measure and adjust their own warfarin therapy with the aid of a portable monitor. In particular the aim was to improve the initiation of warfarin therapy, improve communication in the transition between acute and primary care and improve the use of low molecular weight heparin in the hospital setting.

Funding Partner:

Dr Luke Bereznicki's Scholarship is supported by the National Institute of Clinical Studies.

Project Supervisor:

Professor Greg Peterson
University of Tasmania, TAS

Awards:

TEMCO Tasmanian Young Achiever in Science and Technology Award 2007
National Pearcey Award for innovative and pioneering achievement and contribution to research and development in information technology 2006
National Prescribing Service Student Quality Use of Medicine Award 2006
Tasmanian State Pearcey Award for Young Achievers 2005

Appointments:

Member of NICS' Venous Thromboembolism Prophylaxis Improvement Program Advisory Group (appointed 2006)

Key Publications:

Bereznicki L, Jackson S, Morgan S, Boland C, Marsden K, Jupe D, et al. Improving the clinical outcomes of patients commenced on warfarin: a multi-component intervention. *Journal of Pharmacy Practice and Research*. 2007.
Bereznicki L, Jackson S, Marsden K, Jupe D, Peterson G. Improving the outcomes of warfarin initiation: adherence to an age and disease-based protocol. *Annals of Pharmacotherapy*. 2007.

The National Institute
of Clinical Studies (NICS)

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.

Hood S, Bereznicki L, Dunt D, Jackson S, Lowe A, Mackson J, et al. Interventions to improve evidence-based prescribing for heart failure (protocol). *Cochrane Database of Systematic Reviews.* 2006(3).

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

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, Marsden K, Peterson G. Anticoagulant self-management education program. 1st ed. Hobart: Unit for Mediation Outcomes Research and Education (UMORE); 2005.

Bereznicki L, Jackson S, Peterson G. Closing the gap between evidence and practice. *Journal of pharmacy practice and research.* 2005;35(3):173-4.

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.

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

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.

Bereznicki L, Peterson G, Jackson S. Venous thromboembolism: underuse of prophylaxis for medical and nursing home patients. *Australian Pharmacist.* 2005;24(5):402-4.

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.

Key Presentations:

Bereznicki L. Improving the outcomes for patients initiated on warfarin. National Institute of Clinical Studies Symposium - Using Evidence: Using Guidelines. Melbourne; 2006.

Bereznicki L, Burbury K, Jupe D, Marsden K, Hancock N, Jackson S, et al. Improving the use of prophylaxis for venous thromboembolism at the Royal Hobart Hospital. National Medicines Symposium. Canberra; 2006.

Bereznicki L, Vlassak E, Burbury K, Marsden K, Jupe D, Jackson S, et al. Improving the use of thromboprophylaxis for hospitalised medical patients. Australasian Pharmaceutical Science Association Conference. Adelaide; 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. Canberra; 2006.

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

Bereznicki L, Jackson S, Peterson G. Anticoagulation self-management education program: accredited pharmacist training. Consultant Pharmacists' Clinical Seminar. Alice Springs; 2006.

Bereznicki L. Point of care testing in Australian pharmacy. Scientific Education Seminar: Point of care testing update. Westmead Hospital, Sydney; 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, 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.

Bereznicki L. NSAIDS and cardiovascular risk. The Pharmaceutical Society of Australia Tasmanian Branch Professional Development Seminar. Launceston; 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.

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.

Boland C, Aldous D, Bereznicki L, Vial J, Marsden K, Voute J. Reducing harm associated with warfarin therapy - a national medication safety breakthrough project. Society of Hospital Pharmacists of Australia Tasmanian State Branch Conference. St Helens; 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, Tasmania; 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, Tasmania; 2005.