

Health Economics from Theory to Practice: Informing Related Decisions of Reimbursement, Research & Regulation

A Three-Day Workshop
Led by Professor Andrew Willan and A/Professor Simon Eckermann

1 - 3 December 2008

Lyndoch Hill Retreat, Barossa Valley, South Australia



Flinders Centre for Clinical Change & Health Care Research

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Day 1 *Monday 1st December 2008*
Evidence-based Reimbursement: Decision Making under Uncertainty

- 8.30-9.00** Arrival tea and coffee
9.00-9.15 Course introductions
 (Andrew Willan, Simon Eckermann, Brita Pekarsky, Jon Karnon)
9.15-10.15 Principles and practice of economic evaluation in health technology
 assessment: Frankenstein's Monster or Vampire of Trials
10.15-10.45 **Morning Tea**
10.45-12.00 Statistical analysis of cost-effectiveness data from clinical trials
12.00-12.30 Tutorial: Modelling uncertainty
12.30-1.15 **Lunch**
1.15-2.00 Thinking outside the box: dangers of partial sequential hypothesis tests
2.00-3.00 Probabilistic Sensitivity Analysis (PSA)
3.00-3.30 Tutorial: PSA
3.30-4.00 **Afternoon Tea**
4.00-5.00 Cost effectiveness acceptability (CEA) and expected net loss (ENL) curves and
 frontiers with two or more strategies
6.00-7.00 **Wine Tasting at Lyndoch Hill Retreat**
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Day 2 *Tuesday 2nd December 2008*
*Research and Reimbursement: Optimal trial design within and across
jurisdictions*

- 9.00-10.30** The Value of Information (VoI) to decision makers and principles for efficient trial
 design
10.30-10.45 **Morning Tea**
10.45-11.15 Tutorial: VoI
11.15-12.00 Bayesian adaptive designs and EVSI
12.00-12.45 **Lunch**
12.45-2.15 Relaxing the assumptions: VoI gets real
2.15-2.45 Tutorial: EVSI within jurisdiction
2.45-3.00 **Afternoon Tea**
3.00-3.45 Joint research and reimbursement decisions
3.45-4.15 Optimal global trial design
4.15-5.00 Optimal trial design from an Industry perspective
7.00 till late **Course Dinner at the Creed Winery**
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Day 3 *Wednesday 3rd December 2008*
Research, Reimbursement and Regulation: Translating theory to practice

- 9.00-10.00** Bayes theorem and the value of diagnostic tests
10.00-10.30 Tutorial: VoI with diagnostic tests
10.30-10.45 **Morning Tea**
10.45-12.15 Creating incentives in practice consistent with evidence based medicine: efficiency
 measurement and funding to maximise net benefit
12.15-1.00 **Lunch**
1.00-1.45 Applying the net benefit correspondence theorem in practice
1.45-2.15 Tutorial: Using efficiency software
2.15-3.15 Economic analysis at the coal face: constrained optimisation of net benefit
3.15-3.30 **Afternoon Tea**
3.30-5.00 Price effectiveness analysis: incorporating opportunity costs into decision making

Application Form

**This document is a Tax Invoice for GST purposes upon completion and payment:
Flinders University ABN 65 542 596 200**

Name

Organisation

Postal Address

Telephone Mobile

Email:

I wish to register for the Three Day *Health Economics from Theory to Practice: informing related decisions of Reimbursement, Research & Regulation* work shop:

(please ✓)

All currency is in Australian Dollars and is GST inclusive

Three Days Workshop Fees includes all seminar and tutorial **Academic / Public sector** A\$1,900

teaching materials*; breakfast, lunch, morning and afternoon teas each day; Dinner

(entrée and main course only) on Sunday and Monday evenings; Course Dinner at *Creed* **Private / Commercial sector** A\$2,900

Winery on Tuesday evening 2 December, Airport transfers (see below*).

Accommodation @ Lyndoch Hill Retreat **Per room / per night** A\$165

Sun 30th, Mon 1st & Tue 2nd

I do not require accommodation

I wish to purchase a copy of the recommended text **A\$115**

*Statistical Analysis of Cost Effectiveness Data' by Willan and Briggs (2006)

I wish to take advantage of the **free** shuttle bus service between the Adelaide Airport and venue (#see page 6 for conditions)

* Tutorial materials will be provided on CD for delegates to use with their own laptops

I wish to pay by:

Cheque / money order (payable to *Flinders University*)

Credit Card (Visa, Mastercard or Bankcard only)

Type of Card: Name on Card:

Card Number:/...../...../..... Expiry Date:/.....

Signature of card holder: Credit Card Amount: \$.....

Any special dietary requirements? (please circle)

Vegetarian / Gluten Free / Lactose Free / Other (please provide detail)

Please complete the application form and return it with payment of course fees by cheque, money order or credit card to:

Anthea Williams
Room 55, First Floor, A Block
Repatriation General Hospital, Daw Park SA 5041
Telephone: +61 8 8275 2882
Facsimile: +61 8 8275 2854
Email: anthea.williams@flinders.edu.au

Applications closing date

30 September 2008

Cancellation Policy

A refund will be returned less A\$100 administration fee for a cancellation up to 30 October 2008.

THERE WILL BE NO REFUNDS given after 30 October 2008. Substitutions can be made by arrangement no later than 7 days prior to the commencement of the workshop.

Workshop size Strictly limited to 30 delegates.

Course Details

Suitable for

Health economists, pharmacoeconomists, applied micro-economists, clinicians and researchers undertaking economic studies in clinical trials, evaluators of health technology assessment (NICE, Ontario, PBAC, MSAC) and decision and policy makers.

What is the workshop?

The course teaches best current methods for modeling decision uncertainty in addressing reimbursement (day 1), research (day 2) and regulation (day 3) decisions in processes associated with health technology assessment.

Objectives

Using seminar and tutorial based learning the course aims to provide participants with knowledge and practical skills to:

1. Undertake analysis of clinical trials to inform evidence based decision making in processes of health technology assessment (HTA) such as that for PBAC, MSAC, NICE etc.
2. Design clinical trials to inform decision making within and across jurisdictions using value of information methods conditional on decision context.
3. Robustly compare multiple strategies, including construction and use of expected net loss curves and frontiers.
4. Undertake efficiency measurement across health care providers such as hospitals, consistent with maximising net benefit, underlying evidence-based medicine, unlike current conventional methods of efficiency measurement.
5. Allocate resources within an area of a health budget so as to maximise net benefit while giving appropriate consideration to equity and access.
6. Price patented pharmaceuticals so as to minimise net loss to this and future health budgets.

Course Material

Delegates who wish to purchase a copy of the text 'Statistical Analysis of Cost Effectiveness Data' by Willan and Briggs (2006) may do so with registration, at a reduced cost of A\$115, normally A\$130.

Teaching material and references also include recently published articles for:

1. Eckermann S., Briggs A. & Willan A. R. 2008, 'Health Technology Assessment in the Cost-Disutility Plane'. *Medical Decision Making*, 28, 172-181.
2. Eckermann S. & Willan A. R. 2008, 'Time and Expected Value of Sample Information Wait for No Patient'. *Value in Health*, 11, 522-526;
3. Eckermann S. & Willan A. R. 2008, 'Globally optimal trial design for local decision making'. *Health Economics*, Online early DOI 10.1002/hec.1353;
4. Eckermann S. & Willan A. R. 2008, 'The Option Value of Delay in Health Technology Assessment'. *Medical Decision Making*, 28, 300-305.
5. Eckermann S. & Willan A.R. 2007, 'Expected Value of Information and Decision Making in HTA'. *Health Economics*, 16: 195-209;
6. Willan A.R. and Pinto E.M. 2005, 'The expected value of information and optimal clinical trial design. *Statistics in Medicine* 2005; 24:1791-1806. (Correction: *Statistics in Medicine* 2006; 25:720.)

Delegates are required to provide their own laptops for tutorials.

Further information regarding course content

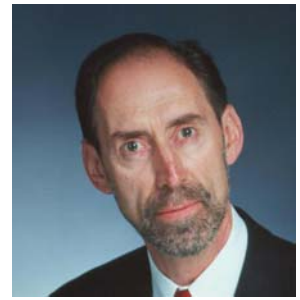
Please contact Simon Eckermann at simon.eckermann@flinders.edu.au

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Professor Andrew Willan

www.andywillan.com/willan

Andrew Willan is currently Senior Scientist, Program in Population Health Sciences at the Hospital for Sick Children in Toronto in addition to Professor of Biostatistics at University of Toronto and Emeritus Professor of Clinical Epidemiology and Biostatistics at McMaster University. He has been instrumental in devising robust methods for modelling of uncertainty in economic evaluation and interpreting such evidence for decision making in health technology assessment. Professor Willan has extensive related publications, including many in collaboration with the late Bernie O'Brien.



A/Professor Simon Eckermann

Simon Eckermann is Associate Professor in Health Economics at the Flinders Centre for Clinical Change & Health Care Research, Flinders University, and was previously senior health economist at the NHMRC Clinical Trial Centre, Sydney University. He has extensive experience in teaching and applying trial-based and decision analytic methods for economic analysis in HTA, and currently sits on the Economic Sub-Committee of the PBAC. His original research includes methods for (i) using value of information to simultaneously inform optimal decision making and trial design in HTA, (ii) comparing multiple strategies in particular the expected net loss frontier, and (iii) a correspondence method allowing ratio measures of relative efficiency consistent with maximizing net benefit.



Guest Presenter Professor Timothy Coelli

Tim Coelli is internationally recognised for his research work on efficiency and productivity analysis. He has published in international journals, including the Journal of Econometrics, Applied Econometrics, Journal of Productivity Analysis, Economics Letters, European Journal of Operations Research, Agricultural Economics, Applied Economics, Journal of Development Studies, Review of Industrial Organisation and Journal of Regulatory Economics. Tim has written three books, including the widely cited: An Introduction to Productivity and Efficiency Analysis (with Rao, O'Donnell and Battese), published by Springer. He has written three computer programs – FRONTIER, DEAP and TFPIP – downloadable free from his web site, which has over one thousand citations in Google Scholar. He has also conducted a lot of research work in "real world" applied settings, with a focus on public sector organisations.



Guest Presenter Brita Pekarsky

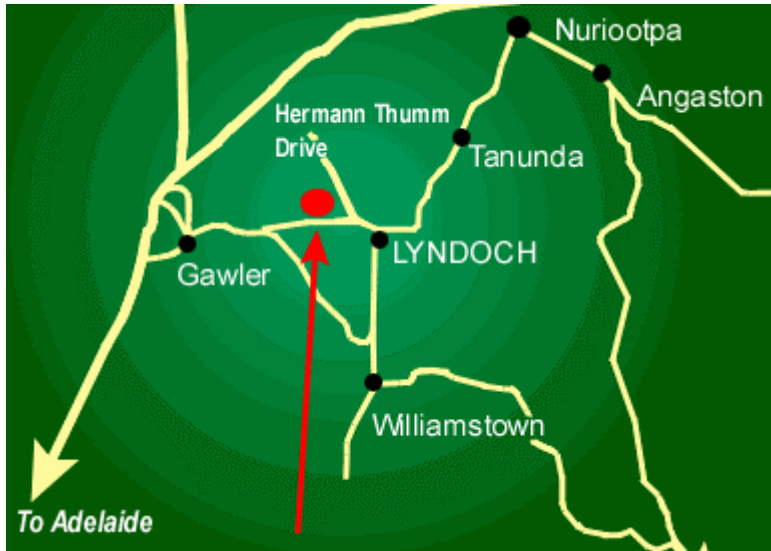
Brita Pekarsky is a experienced health economist, currently enrolled as a PhD student at the Department of Economics, University of Adelaide. She has been part of the pharmaceutical reimbursement process in Australia since 1995 and since 1997 has been a member of the Economic Subcommittee of the PBAC. In this capacity she had reviewed more than 150 different pharmaco-economic models. Her thesis topic is "Pricing Patented Pharmaceuticals". She has developed a theoretically grounded and practical method to price patented pharmaceuticals as part of the reimbursement process. This method, Price Effectiveness Analysis, allows for prices to be set to explicitly allow for intratemporal and intertemporal trade-offs.



Guest Presenter A/Professor Jon Karnon

Jon Karnon is Associate Professor in Health Economics at the University of Adelaide. Previously, he worked in the Health Economics and Decision Science section at the University of Sheffield in the UK, and at the Health Economics Research Group at Brunel University. Jon's principle focus is the use of decision modelling techniques as a framework for the economic evaluation of health care technologies. In addition to publishing a wide range of applied modelling studies, he compares alternative modelling techniques. He is currently developing a new modelling framework to inform the efficient and equitable choice and delivery of health care services. Jon is on the Editorial board of two Health Economics journals, Pharmacoeconomics, and Applied Health Economics and Health Policy.





Course Venue

The course is being held in the Barossa Valley wine district at the **Lyndoch Hill Retreat**, Corner Barossa Valley Highway and Hermann Thumm Drive, Lyndoch, South Australia, approximately an hour's drive (58 km) north of Adelaide.

The accommodation is set in the middle of a 12 hectare rose garden. Most of the rooms have balconies where you can enjoy the sights and sounds of the magnificent garden, which was opened by Her Majesty The Queen in 2002.

Getting there

Allowing 60-75 minutes between airport and Lyndoch, the direct route is via Main North Road and Sturt Highway, through Gawler. From Main North Rd, turn off (LEFT EXIT) and travel through the township of Gawler, near the end of the main street look for the sign towards LYNDOCH. Turn RIGHT and travel up the hill out of Gawler, follow this road (Barossa Valley Highway) for approximately 12kms. Go through Sandy Creek and after about 3kms you will come over a rise and enter the Beautiful Barossa. Once you pass the first vineyards you are close, start to slow down, follow a sweeping bend and look for the Barossa Caravan Park on the RHS. Continue a further 500 metres along Barossa Valley Highway and the Lyndoch Hill Retreat will come up on your LEFT.

Transfer from the airport#

A shuttle bus will depart the Adelaide Airport at **4pm on Sunday 30 November** to transfer delegates to the course venue. The shuttle bus will depart the course venue at **5.30pm on Wednesday 3 December**, returning to the Adelaide Airport and city. This service will be provided **free of charge** to course delegates. Transfers outside of this service will be at the delegate's own expense. Please indicate on the registration form whether you wish to use this service.

What is included in the course registration fees:

- All seminar and tutorial teaching materials, including a comprehensive manual;
- Fully cooked breakfast on Monday, Tuesday and Wednesday at Tonic Restaurant;
- Lunch, morning and afternoon teas on Monday, Tuesday and Wednesday;
- Dinner (entrée and main course only) at Tonic Restaurant on Sunday and Monday evenings. Drinks and dessert are at the delegate's own expense;
- Full Course Dinner including transfers to the winery;
- Airport transfers (#conditions apply).

Course Dinner ~ Tuesday 2 December

The course dinner, included as part of course fees, is by special arrangement at the Creed Winery on the second night of the course. The evening will include a unique wine and food experience, starting with a chat with the winemaker, the chance to taste some wines direct from the barrel, feast on a banquet of local produce prepared by Chef Kas Martin, whilst perched on a hill overlooking spectacular Barossa views.

Additional costs:

- Accommodation (see page 3);
- Airport transfers outside of those detailed above#.

