



# Introduction to Economic Evaluation for Decision-Making in Health

## SHORT COURSE IN VACCINE ECONOMICS

**School of Public Health**  
**University of the Witwatersrand, Johannesburg**  
**19 – 21 April 2018**

### Background

Policy makers in low and middle-income countries regularly apply economic principles to healthcare decision-making. To do this well requires greater expertise in applied health economics. A professional team of health economists from the Johns Hopkins Bloomberg School of Public Health, WITS School of Public Health, Indian Institute of Hospital Management Research (IIHMR) University, Aga Khan University, and Makerere University have developed a series of training workshops to strengthen skills related to economics and financing of national immunization programs and to improve the sustainability of vaccine delivery in low and middle-income countries. The program will provide a rare and unique opportunity to interact with subject experts.

### Short Course Overview

This short course will provide beginner content in economic evaluation, building upon theoretical concepts in cost-effectiveness analysis and cost-effectiveness modeling using pertinent research questions from fields in global infectious disease and vaccine outcomes.

### Short Course Contents

1. Methods and tools for economic evaluation
2. Basic concepts of economic evaluation
3. Measuring and valuing costs by perspective
4. Measuring and valuing health benefits
5. Reporting results & the role of uncertainty
6. Introduction to decision analytical models

### Target Audience

The short course is designed for professionals and academics who are involved in planning and implementation of immunization programs and projects. Target participants would therefore, include government representatives (national, state-level, district-level) engaged with immunization, NITAG members, GAVI program managers, other policy makers, and academics.

### Facilitators

A team of Health Economists from Wits University, Johannesburg and John Hopkins University will jointly deliver the workshops:

- **Dr Bill Padula**, Assistant Professor  
Department of Health Policy & Management  
Johns Hopkins Bloomberg School of Public Health
- **Dr Anthony Kinghorn**, Senior Technical Advisor,  
PRICELESS SA, Wits School of Public Health,  
Johannesburg
- **Dr Ijeoma Edoka**, Research Director, PRICELESS SA,  
Wits School of Public Health, Johannesburg

### How to Apply

Prospective participants should submit the following documents to **Ms. Winfrida Mdewa** (details below):

1. A completed application form (see below)
2. One-page motivation for why you wish to attend this short course and how it will be useful to your work.
3. Latest CV

### Registration Fee

**ZAR 3,500**

Participants will, on completion, be awarded a Faculty of Health Science, University of Witwatersrand Certificate of Attendance.

A limited number of grants are available to cover travel, accommodation, per diems and registration fees of prospective participants. Priority will be given on a first come, first serve basis to applicants who work in EPI programs, National Immunization Technical Advisory Groups (NITAG) and partners from GAVI-eligible countries in Southern Africa. Funded participants would ideally be familiar with the basic use of Microsoft Excel and have some experience working on planning, managing or budgeting for vaccine and immunization programs.

**Application deadline: 14<sup>th</sup> March 2018**

***Applications received after this date will not be considered for attendance grant.***

*For further enquiries please contact:*

**Ms. Winfrida Mdewa**  
Project Administrator  
PRICELESS SA  
Wits School of Public Health  
E-mail: [winfrida.mdewa@wits.ac.za](mailto:winfrida.mdewa@wits.ac.za)  
Tel: 011 7172714

## Short Course Programme

### Day 1

- 1. Introduction to Economic Evaluation**
  - Evidence base underlying vaccine introduction decisions
  - Value for money
  - Survey of methods for economic evaluation
  - Components of a cost-effectiveness analysis
  - Role of economic evaluation in vaccine policy
- 2. Defining the Scope of an Economic Evaluation**
  - Target audience and population
  - Study question (decision problem)
  - New intervention and comparator(s)
  - The viewpoint/perspective of the analysis
  - Analytical time horizon
- 3. Costing Vaccination Programmes**
  - General approaches to costing
  - Types cost categories to consider
  - Specific considerations for new vaccine introduction and related CEA costing

### Day 2

- 1. Costing of Illness– Measuring and Valuing Cost**
  - Identification, Measurement and Valuation of relevant resource-use inputs in relation to study perspective
  - An overview of key data sources for costs
- 2. Practice Exercise: Costing**
- 3. Measuring and Valuing Health Outcomes**
  - Definition of Health State Values
  - Instruments of Effectiveness Measurement
  - Health Utility Measures and applications to Economic Evaluation
    - DALYs
    - QALYs
- 4. Reporting and Interpreting Results of an Economic Evaluation**
  - Incremental Cost-effectiveness Ratio (ICER) calculation
  - Interpreting the ICER and Dominance
  - The Cost-Effectiveness Threshold
  - Representing and interpreting uncertainty
  - Decision-making using results of CEA
  - Reporting: CHEERS checklist

### Day 3

- 1. Introduction to decision analytical models**
  - Decision tree
  - Markov Model
- 2. Practice Exercise: Decision tree modelling**

*Jointly organized by*



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**BILL & MELINDA  
GATES foundation**

**SHORT COURSE APPLICATION FORM**

**Introduction to Economic Evaluation for Decision-Making in Health**

*19 – 21 April 2018*

**Personal Details**

<b>Course Name</b>		<b>Course Dates</b>	
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<b>Surname</b>		<b>First Names</b>	
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<b>Staff/Student No</b>		<b>ID/Passport No*</b>	
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*\*If International, please scan your passport along with this form, as further details are needed*

<b>Gender</b>		<b>Marital Status</b>	
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**Contact details**

<b>Postal Address</b>		<b>Residential Address</b>	

<b>Work Address</b>		<b>Email Address</b>	
		<b>Contact numbers</b>	
		Home	
		Work	
		Cell	

**Biographic/Birth**

<b>Country</b>	
<b>City</b>	
<b>Place</b>	
<b>Date of Birth</b>	
<b>Religion</b>	
<b>Race</b>	

**EMPLOYMENT**

<b>NAME OF YOUR INSTITUTION &amp; DEPARTMENT</b>	
<b>YOUR CONTACT DETAILS TELEPHONE NUMBER, FAX AND E-MAIL</b>	