

# Economic Evaluation in Health Technology Assessment

## (HTA) – Applied Training

### Workshop Agenda

- Day 1-

|   | Time   | Session   | Format                            | Delivery Lead   |
|---|--|---|-----------------------------------|---|
| Day 1: Model conceptualization for different types of health technologies | 9.00 am-9.30 am<br>9.30 am-9.45 am<br>9.45 am-10.00 am | Registration of workshop<br>Welcome address<br>Introduction of the workshop   |                                   |   |
|   | 10.00 am-11.30 am                                      | Model concept development for different types of health technologies: framework and examples                                | Power Point Presentation          | Maria De Francesco, Imperial College                                      |
|   | 11.30 am-11.45 am                                      | Tea break   |                                   |   |
|   | 11.45 am-1.30pm  | Practical session: model conceptualization (structure)  | Group work                        | All<br>(Material: Maria<br>Facilitators: Dr Malkeet, Dr Akshay, & PGIMER) |
|   | 1.30pm-2.00 pm   | Lunch break   |                                   |   |
|   | 2.00 pm-3.30 pm  | Practical session: model conceptualization (data requirement)   | Group work                        | All<br>(Material: Maria<br>Facilitators: Dr Malkeet, Dr Akshay, & PGIMER) |
|   | 3.30 pm-3.45 pm  | Tea break   |                                   |   |
|   | 4.45 pm-5.30 pm  | Group presentations of the model concept developed - structure and data requirement (~10 minutes x group + discussion time) | Group presentation and discussion | All   |

**- DAY 2-**

| Day 2: Identifying and adjusting QoL data to populate the model | Time   | Session   | Format  | Delivery Lead   |
|---|--|---|---|---|
|   | 09.30 am-10:20 am  | Group presentations of the model concept developed - structure and data requirement (~10 minutes x group + discussion time) | Group presentation and discussion   | All   |
|   | 10.20am-10.45am  | Facilitators views on the group performance and suggestions for improvement   |   | Akshay, Malkeet, Gaurav and Akashdeep, Maria                              |
|   | 10.45am -11.00am   | <b>Tea Break</b>  |   |   |
|   | 11.00 pm-12.00 pm  | Identify, interpret and extract clinical data to populate cost-effectiveness models for different types of technologies     | Power Point Presentation  | Dr.Malkeet and Dr.Akshay<br>HTAIn Secretariat                             |
|   | 12.00 am-12.45 pm  | Obtaining and adjusting QoL data (utilities and disutilities) to populate cost-effectiveness models                         | Power Point Presentation  | Dr.Gaurav Jyani<br>PGIMER   |
|   | 12.45 pm – 1.30 pm   | Obtaining and adjusting QoL data to populate cost-effectiveness models: Examples of different types of health technologies  | Power Point Presentation  | Dr.Gaurav Jyani<br>PGIMER   |
|   | 1.30 pm-2.00 pm  | <b>Lunch break</b>  |   |   |
|   | 2.00 pm-4.00 pm  | Practical session: identify and extract clinical data needed to populate the model  | Group Work  | All<br>(Material: Maria<br>Facilitators: Dr Malkeet, Dr Akshay, & PGIMER) |
|   | 4.00 pm-4.15 pm  | <b>Tea break</b>  |   |   |
| 4.15 pm-5.30 pm   | Practical session: obtaining and transforming QoL data to populate the model | Group Work  | All<br>(Material: Maria<br>Facilitators: Dr Malkeet, Dr Akshay, & PGIMER) |   |

**- DAY 3 -**

| Day 3: Identifying and transforming clinical data to populate the model | Time  | Session   | Format                                       | Delivery Lead   |
|---|---|---|--|---|
|   | 09.30 am-10:30 am   | Transform clinical data in the literature to transition probabilities for decision-analysis                                 | Power Point Presentation                     | Maria De Francesco, Imperial College                                      |
|   | 10.30 am-11.45 pm   | Practical session: transforming clinical data into transition probabilities/event data                                      | Group Work                                   | All<br>(Material: Maria<br>Facilitators: Dr Malkeet, Dr Akshay, & PGIMER) |
|   | 11.45 am-12.00 pm   | Tea break   |  |   |
|   | 12.00 pm-12.45 pm   | Data mapping against model concept and model concept validation by experts  | Power Point Presentation                     | Maria De Francesco, Imperial College                                      |
|   | 12:45 pm-1:30 pm  | Practical session: Clinical and QoL data mapping against model concept  | Group Work                                   | All<br>(Material: Maria<br>Facilitators: Dr Malkeet, Dr Akshay, & PGIMER) |
|   | 1.30 pm-2.00 pm   | Lunch break   |  |   |
|   | 2.00 pm-3.45 pm   | Group presentations of clinical and QoL data mapping against model concept (~15 minutes x group + discussion time) – Part 1 | Group presentation and discussion            | All   |
|   | 3.45 pm-4.00 pm   | Tea break   |  |   |
|   | 4.00 pm-5.10 pm   | Group presentations of clinical and QoL data mapping against model concept (~15 minutes x group + discussion time) – Part 2 | Group presentation and discussion            | All   |
| 5.10pm-5.30pm   | Facilitators views on the group performance and suggestions for improvement |   | Akshay, Malkeet, Gaurav and Akashdeep, Maria |   |

**- DAY 4 -**

|   | Time              | Session  | Format                            | Delivery Lead  |
|---|-------------------|--|-----------------------------------|--|
| <b>Day 4: Identifying and adjusting cost data to populate the model</b> | 9.30 am-10.30 am  | Obtaining and adjusting resource use and cost data to populate cost-effectiveness models of different types of health technologies (macro vs micro-costing, different categories of costs, ongoing vs one-off costs, inflation)          | Power Point Presentation          | Dr.Akashdeep<br>PGIMER   |
|   | 10.30 pm-10.45 pm | <b>Tea break</b>   |                                   |  |
|   | 10.45 am-11.45 am | Practical session: 1) define costing strategy to be used in the model and for each cost identified in model concept stage explain whether is ongoing or one-off; 2)Extract and adjust resource use and cost data to be used in the model | Group Work                        | All<br>(Material: Maria<br>Facilitators: Dr Malkeet,<br>Dr Akshay, & PGIMER) |
|   | 11.45 pm-12.15 pm | Practical session: cost and resource use data mapping against model concept  | Group Work                        | All<br>(Material: Maria<br>Facilitators: Dr Malkeet,<br>Dr Akshay, & PGIMER) |
|   | 12.15 pm-1.30 pm  | Group presentations of cost and resource use data mapping against model concept (~5 minutes x group + discussion time)   | Group presentation and discussion | All  |
|   | 1.30 pm-2.00 pm   | <b>Lunch break</b>   |                                   |  |
|   | 2.00 pm-3.00 pm   | Developing the model engine for decision-tree models (with related examples)   | Power Point Presentation          | Maria De Francesco,<br>Imperial College                                      |
|   | 3.00 pm-4.00 pm   | Developing the model engine for Markov models (with related examples)  | Power Point Presentation          | Maria De Francesco,<br>Imperial College                                      |
|   | 4.00 pm-4.15 pm   | <b>Tea break</b>   |                                   |  |
|   | 4.15 pm – 5.30 pm | Practical session: prepare structure of the model engine in MS Excel   | Group work                        | All (Material: Maria<br>Facilitators: Dr Malkeet,<br>Dr Akshay, & PGIMER)    |

**- DAY 5 -**

| Day 5: Translating the model concept into the model engine | Time  | Session   | Format                            | Delivery Lead   |
|--|---|---|-----------------------------------|---|
|  | 9.30 am-11.30 am  | Practical session: develop the model engine in MS Excel – Part 1                                      | Group work                        | All<br>(Material: Maria<br>Facilitators: Dr Malkeet, Dr Akshay, & PGIMER) |
|  | 11.30 am-11.45 am   | Tea break   |                                   |   |
|  | 11.30 am-1.00 pm  | Practical session: develop the model engine in MS Excel – Part 2                                      | Group work                        | All<br>(Material: Maria<br>Facilitators: Dr Malkeet, Dr Akshay, & PGIMER) |
|  | 1.00 pm-1.30 pm   | Lunch break   |                                   |   |
|  | 1.30 pm-2.15 pm   | Group presentations of challenges in translating model concept into model engine (~5 minutes x group) | Group presentation and discussion | All   |
|  | 2.15 pm-2.45 pm   | Facilitators views on the group performance and suggestions for improvement                           |                                   | Akshay, Malkeet, Gaurav and Akashdeep, Maria                              |
|  | 2.45 pm-3.30 pm   | Rapid assessment: international experience and vision for India                                       | Power-point presentation          | Dr.Kavitha Rajsekar<br>HTAIn Secretariat                                  |
| 3.30 pm-4.00 pm  | Discussion with the participants to get the final views and Suggestion<br><br>Plan for the next Work shop |   | All                               |   |