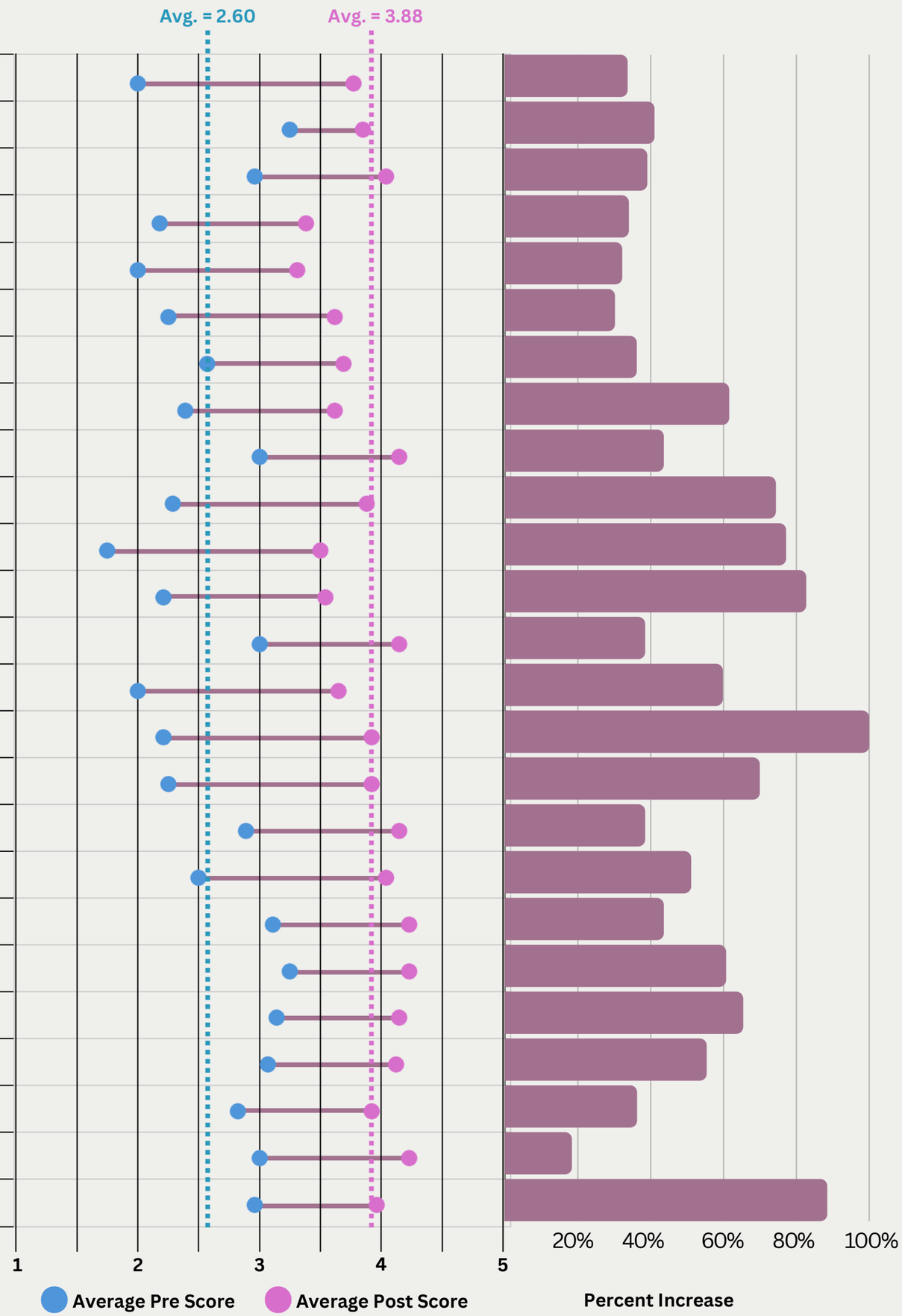
Istanbul Workshop 2024
Survey Results

Knowledge

1	2	3	4	5
Very Low	Low	Moderate	High	Very High

Please rate your level of knowledge to successfully accomplish the following:

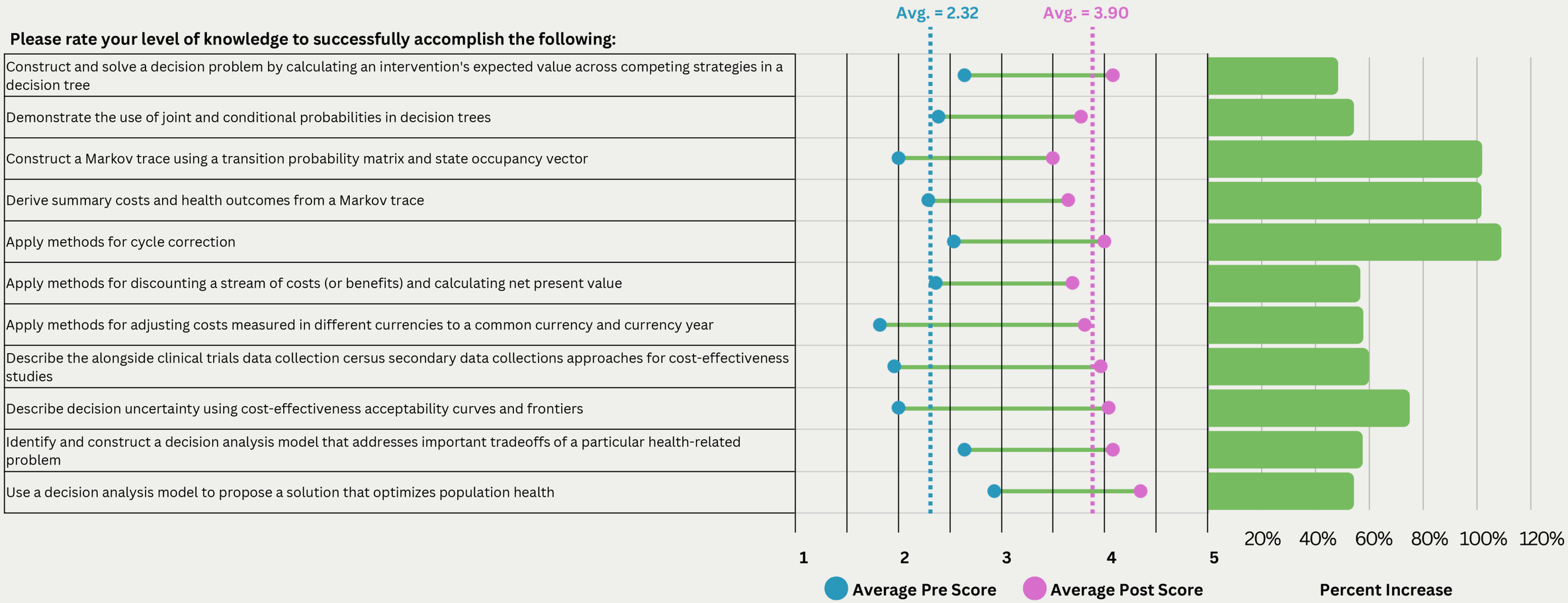


- Determine the decision threshold across a range of scenarios
- Differentiate between joint and conditional probabilities
- Identify theoretical and methodological differences between different economic evaluation techniques
- Understand the concepts of summary measures of health, including quality-adjusted life years (QALYs) and disability-adjusted life years (DALYs)
- Identify the steps of valuing costs in economic evaluations
- Identify differences between cost-benefit analysis and cost utility analysis
- Explain differences between average and incremental cost effectiveness ratios
- Describe decision problems by whether they are competing or non-competing
- Define and discuss incremental cost effectiveness ratios
- Describe concepts of dominance and extended dominance
- Identify pros and cons of decision modeling using decision trees versus a formal deterministic model
- Describe how to structure and parameterize a transition probability matrix
- Understand differences between rates, probabilities, hazard rates, relative risks, and other relevant model inputs
- Understand rate-to-probability conversion formulas and transition probability embedding
- Explain how to embed a transition probability matrix with a defined timestep
- Classify model parameters across different economic models
- Identify resources and tools for collecting both cost and benefit parameters
- Explain the purpose of deterministic sensitivity analysis
- Provide examples of one-way versus two-way analyses
- Describe the advantages and disadvantages of deterministic sensitivity analysis
- Explain how to draw parameter values from an uncertainty distribution
- Understand inputs and outputs of a PSA
- Present and summarize decision analytic models for a non-technical audience in a way they can understand
- Identify dissemination channels and how best to maximize impact
- Understand the basic concepts and identify the strengths and limitations of alternative modeling techniques, including microsimulation, discrete event simulation, and dynamic infectious disease models

Skills

1	2	3	4	5
Very Low	Low	Moderate	High	Very High

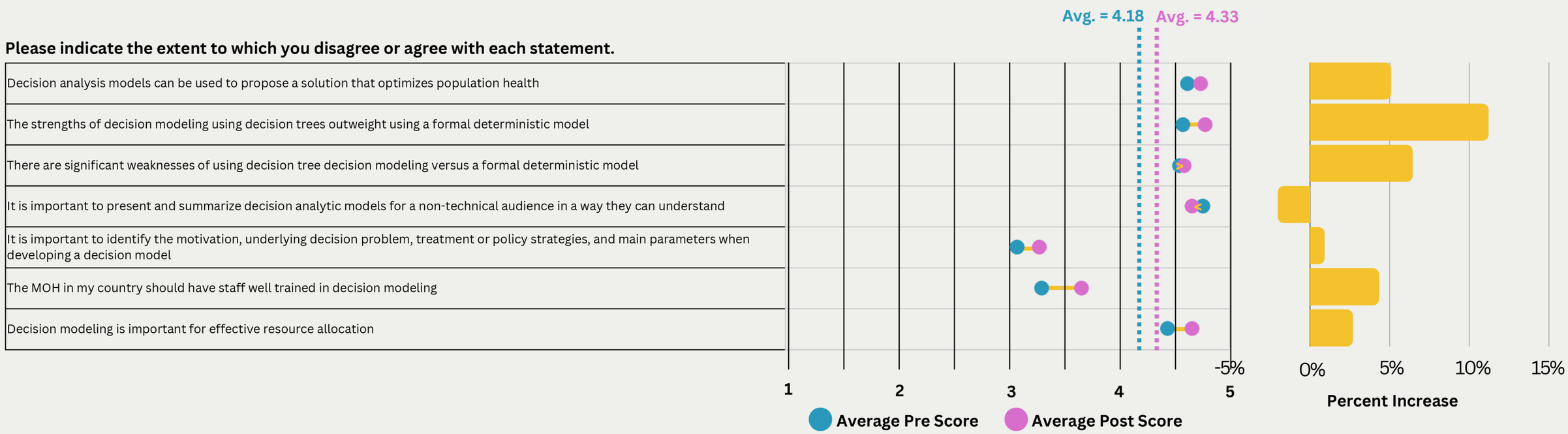
Please rate your level of knowledge to successfully accomplish the following:



Attitude

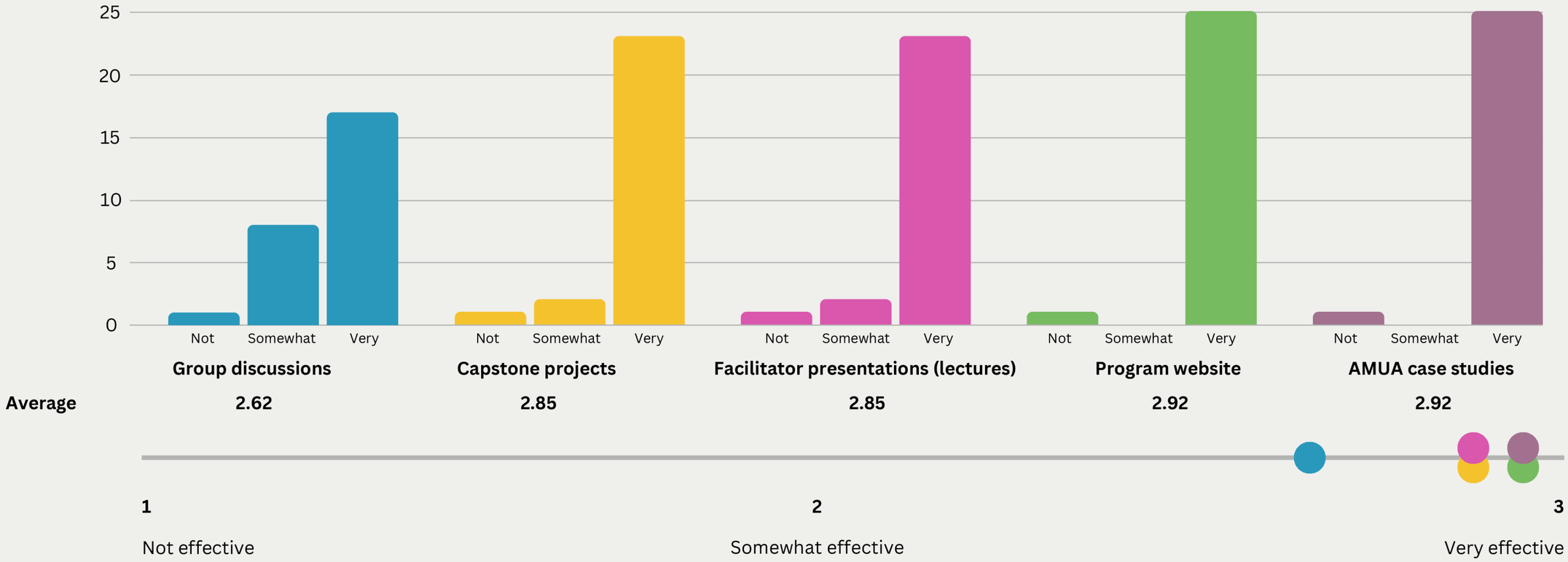
1	2	3	4	5
Strongly Disagree	Disagree	Neither disagree nor agree	Agree	Strongly Agree

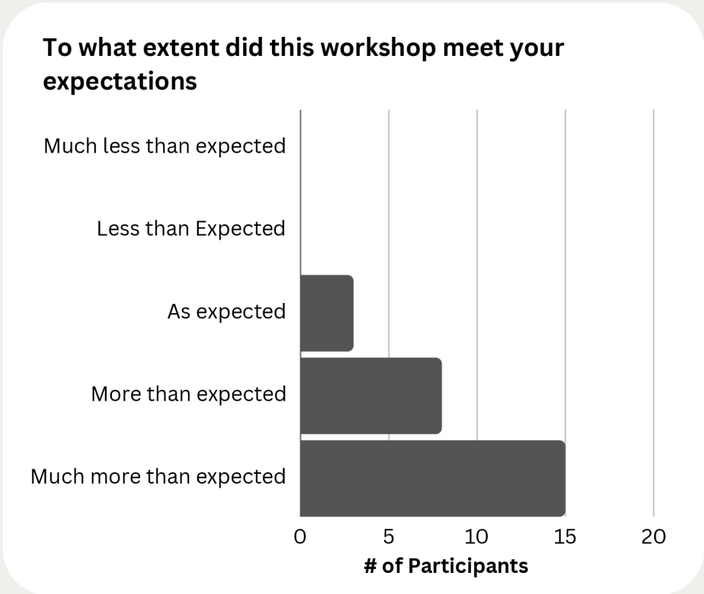
Please indicate the extent to which you disagree or agree with each statement.

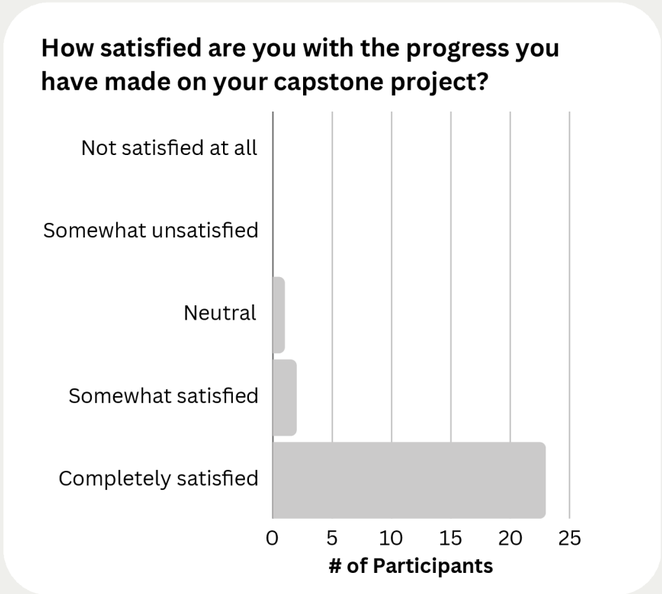


Feedback

Rate the efficacy of the following teaching strategies in helping you learn the workshop material.







100%
would recommend this workshop to a colleague

25/26 **(1 was Unsure)**
felt this workshop provided knowledge and skills that I intend to use in professional practice.

Length of Workshop

15 Just Right

11 Too Short

Please describe how you plan to apply the knowledge and skills you gained in this workshop.

To develop models for other policy questions

- The knowledge I learnt here is very important .Before coming here, I did not know anything relate to all these analysis. I am planning to use to complete the capstone for sure and then try one the strategies for other noncommunicable diseases.
- In case of non-communicable disease prediction model.
- Two key ways: 1. Complete the current topic and disseminate the findings to the relevant audiences. 2. Apply the skills to answer similar policy questions, in the control of breast and prostate cancers in Kenya.
- conducting meeting with expert to adjust the model.
- Evaluation of policies in the various health programmes
- I will apply them in the various initiative we have in the Health Economics and Financing Unit of the MoH. Specifically, in the benefit package prioritization, economic evaluation of certain interventions (Adolescent interventions, unhealthy diet (NCD), etc).
- gained valuable knowledge and skills in economic modeling that I plan to apply in several key areas of my work, particularly in healthcare policy and resource planning and evaluating health outcomes
- i am part of the Health technology assessment team in my country. i will use this knowledge to economic evaluation studies.
- to evaluate the vaccination and screening programe and motivate policy change.

To pass on to/train colleagues

- The first step will be a feedback seminar, after which I will encourage each member of staff, in groups of at least two people, to carry out case studies on existing decision-making issues.
- Will assist with training Data 2 policy mentors and trainees. Will also be included in my PhD
- I will share knowledge that gain from this workshop to my co-workers.
- The knowledge and the skills that I gained will be shared among the potential academics localy and hope to establish a group to perform health economic evaluation in the health sector
- In my department at the ministry of health, AIDS Control Center, we have no personal knowledge in health economics and we have been depending on outsourced personal and would just take whatever they modelled for us, therefore, this has given me the opportunity to be able to totally understand and be able to comprehend and take part in the future modeling's that will be done
- I will apply the Knowledge that i have gained i in our ministry to advise on the policy options that the Govenment can apply to avert cervical cancer cases in Kenya. I will also pass the knowledge to my colleagues on using Amua instead of decision trees in calculating the ICER.
- I will mentor colleagues in the Ministry of Health and produce at least two policy briefs based on full economic evaluation to inform policy.
- It will help us in improving and simplifying our D2P Unit 2 program, using Amua instead of the Google Sheet/Excel.
- Both for my own projects as well as to assist in teaching and planning the D2P content in the future for SA
- As a country D2P mentor, to apply learnings to the Data 2 Policy program. To also apply learnings in the decision making of the Department of Health through development of policy briefs.
- I would like to implement some of it in D2P training in China.

To complete a policy brief/ recommendation

- Preparing policy brief for my country
- I will use the knowledge to do a cost analysis in my upcoming projects
- Since I am working with the National Institute for Medical Research and providing recommendations to the MoH, the plan is to utilize this knowledge and provide evidence-based recommendations
- I will apply them in the various initiative we have in the Health Economics and Financing Unit of the MoH. Specifically, in the benefit package prioritization, economic evaluation of certain interventions (Adolescent interventions, unhealthy diet (NCD), etc).
- I would like to use the knowledge in my health policy related research projects to facilitate informed decision by the decision makers as well as to advance knowledge in my research community.
- I will mentor colleagues in the Ministry of Health and produce at least two policy briefs based on full economic evaluation to inform policy.
- as a government employee, knowing how i can model the economic impact and health outcome, i will use this knowledge to best assess the cost effectiveness of different interventions in my country and provide better recommendations
- As a country D2P mentor, to apply learnings to the Data 2 Policy program. To also apply learnings in the decision making of the Department of Health through development of policy briefs.
- To also apply learnings in the decision making of the Department of Health through development of policy briefs.
- i would use the models to inform.my decision as I am at decision making level.

What was most helpful about the workshop?

Amua

- AMUA software
- learning about Amua program
- i have to admit, its still work in progress but i loved the costing in amua
- The use of Amua in economic evaluation
- 1.expert lectures 2.amua real time training 3.group discussions
- learning concept and how to do them in Amua were quite helpful
- learning about amua and markov.also the lecturer John is good made me understand basic skills hope to keep on being mentored by him for future
- The AMUA model and developing models using this tree. i want to concentrate more on the model using the online resources.
- Resources are readily available especially the Amua software. Also appreciate the feedback of experts/facilitators and the logistics part. Also, just before the workshop we had a team meeting with Emily and really helped with validating our proposed capstone.
- learning the new skills and how to use Amua and Markov. Having contact with experts, the facilitators who are well versed in their respective subjects.
- detailed techniques in decision analysis, and amua tools

Case studies

- Case studies
- and case studies
- AMUA case studies
- Practical sessions
- The case study exercise were very helpful, as well as the website
- Case studies and application of the knowledge in our projects.
- practice
- The lectures were supper helpful but the most important was the hands on training on the AMUA for decision modeling . The case study was very effectively designed for learning and the guidance provided by the mentors was most helpful.
- solid and rich knowledge materials, cases and instruction from lecturers.

Markov modelling

- I learned about Markov modeling, and sensitivity analysis
- Markov models
- and the use of Markov in modelling the work the decision tree could not do
- Markov model in general. Also understood the microsimulation concepts.
- Really appreciated the explanation of using Markov modelling and how it can be applied with decision tree to improve our analysis.
- learning about amua and markov.also the lecturer John is good made me understand basic skills hope to keep on being mentored by him for future
- learning the new skills and how to use Amua and Markov. Having contact with experts, the facilitators who are well versed in their respective subjects.

Lectures, facilitators, mentoring

- Mentoring and the comprehensiveness of the lectures
- The facilitators were very approachable and willing to mentor.
- Having the mentors to assist in developing more complex models
- 1.expert lectures 2.amua real time training 3.group discussions
- The lectures were supper helpful but the most important was the hands on training on the AMUA for decision modeling . The case study was very effectively designed for learning and the guidance provided by the mentors was most helpful.
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- solid and rich knowledge materials, cases and instruction from lecturers.
- learning the new skills and how to use Amua and Markov. Having contact with experts, the facilitators who are well versed in their respective subjects.

The contents are very useful; however, I do not have background so I am struggling to get all the information to my brain and apply to real work.

How could the workshop be improved in the future?

Pre-workshop training materials/ preparation

- Spend more time and receive guided lessons via e-learning platforms well before the start of the course
- It is quit fast for people with no background.
- Since participants are from various backgrounds and experiences. You might consider about pre-course about economic evaluation to ensure that all participants are on the same pages.
- Arrange pre-workshop calls with teams to discuss the capstone studies in advance to the workshop.
- Maybe, if you give organize one/two virtual sessions before the workshop to better shape the capstone project topic and the participants be well prepared before the workshop in person. Also, to make sure that the basic concepts are understood, and the exercise are done before moving to the capstone project. Or, taking all the capstone project work towards the end of the workshop. or at the end of each day.

Pre-workshop refinement

- If you plan to focus on the decision tree or Markov model, please inform the participants to choose the topic about non-communicable disease. In addition, if you have an online module before the onsite workshop, so the participants can prepare the data to develop the model.
- Maybe starting some preliminary work before the workshop, so that the teams have refine their topics and already conceived the approach to aswering the policy questions.
- Maybe, if you give organize one/two virtual sessions before the workshop to better shape the capstone project topic and the participants be well prepared before the workshop in person. Also, to make sure that the basic concepts are understood, and the exercise are done before moving to the capstone project. Or, taking all the capstone project work towards the end of the workshop. or at the end of each day.
- can we think of extending the time a little more so that we get breathing space to internalize the concepts. It happened sometimes before we internalize the concepts and realize its importance, new concepts were taught. otherwise as pedagogy it is extremely good. Further, country pairing should be based on mutual interests or people from same organization so that the work becomes easier. it became in our case.

Content

- Include more realistic examples (Health Related0in explaining difficult concepts
- Maybe, if you give organize one/two virtual sessions before the workshop to better shape the capstone project topic and the participants be well prepared before the workshop in person. Also, to make sure that the basic concepts are understood, and the exercise are done before moving to the capstone project. Or, taking all the capstone project work towards the end of the workshop. or at the end of each day.
- more examples
- I would have expected a little more time for the case study using AMUA so that everybody could have presented their initial findings (participants should have been asked to present their initial results, though not compulsory) as that could have allowed discussion on the problem faced by each of the participants and rectify.
- more time and also allow diversity in topic selection not to focus mainly on disease or conditions
- lectures is given too fast, and i sometimes cannot catch up. should give more time on lecture. 2) mentors should comments on final presentation of each team, and so participants can know how to improve their model.

More time to digest materials

- Need more time to consume the new learnings
- Working through more case studies and having more time to discuss the capstone project
- extend to two weeks
- if possible, the duration be increased to 10 days at least. John's sessions were very heavy yet were delivered in a short time period
- on my own, it was too much content in a very short duration, not enough time to practice every concept learned and understand it better
- can we think of extending the time a little more so that we get breathing space to internalize the concepts. It happened sometimes before we internalize the concepts and realize its importance, new concepts were taught. otherwise as pedagogy it is extremely good. Further, country pairing should be based on mutual interests or people from same organization so that the work becomes easier. it became in our case.
- on day longer for our reviewing what we learned from of lectures, to make sure we understand and master most of it.

More time for group discussion

- need more practice and discussion
- extend to two weeks
- The workshop can be improved by allocating more time and having more case studies
- I would have expected a little more time for the case study using AMUA so that everybody could have presented their initial findings (participants should have been asked to present their initial results, though not compulsory) as that could have allowed discussion on the problem faced by each of the participants and rectify.
- More time for peer to peer sharing and learning
- lectures is given too fast, and i sometimes cannot catch up. should give more time on lecture. 2) mentors should comments on final presentation of each team, and so participants can know how to improve their model.

How could the workshop be improved in the future? (Cont.)

More time

- extend to two weeks
- if possible, the duration be increased to 10 days at least. John's sessions were very heavy yet were delivered in a short time period
- Increasing the number of days
- more time and also allow diversity in topic selection not to focus mainly on disease or conditions

None

- Very well run
- None that I can think of
- all is well with the way how its organused, from Logistics to workshop delivery

What topics or themes were missing?

Material

- A case study on the most complex subject proposed by the learners
- not sure this is because, AMUA is new to me
- Details on step-by-step costing process
- More understanding on the life tables.
- Excel practice
- Budget impact analysis,
- The theme had a more leaning towards academic research (that was perfectly fine with me). I would expect a dedicated lecture on how to present the findings in a language or format that could be easily comprehended by wider audience, particularly policy makers.
- introduction to health economic modelling for some of us with little background
- More topics on costing and data
- th histories of these techniques of economical analysis, such as when they start building and whether they are new and state-of-the-art!
- all important topics which were relevant were discussedkerp it up. the venue is very much appropriate given the centalility of Turkey to other continents

More time

- topics were covered but need to go in extended way
- Capstone projects

None

- I think all the topic are great
- None
- None
- it was enough for the start
- Not detect any
- None.
- n/a
- i think none
- None so far
- None of note
- None that I can think of
- no

Please provide any other thoughts on the organization of the workshop

Pre-workshop

- If the materials could be shared at least 2 weeks prior the training
- It is well organized, a few improvement areas are given above, especially to have a few virtual sessions before the workshop.
- Provision of pre workshop study/preparation guide Lectures to be dedicated to the mornings.
- The workshop is good, but country pairing should be organised based upon mutual interests or at least from the same organization.

More time

- Need two-three days breaks just before the last day
- if you can provide enough time to practice every concept learned.
- improve on more time to allow grasping concepts. since its a lot of things to grasp to allow simulation of ideas.

Workshop

- Suggest other programming languages such as Python to other learners
- Provision of pre workshop study/preparation guide Lectures to be dedicated to the mornings.
- English listening problem for fellows from other countries. could lecturer or other teachers repeat (sometimes) in more standard accent.

Social

- We should have an evening cocktail party (with music) on Saturday evening, as Sunday is a resting day

Post-workshop

- It would be good if we have some time to work on the models and then have a must check-in with the team in about 2 weeks after the workshop
- None that I can think of. But perhaps a post workshop meeting with everyone will be nice to have to present their final outputs, and how were they able to advocate their recommendations to the decision makers but definitely optional.

The workshop is excellent

- Good organization.
- well-done
- Nothing more it was well-organized
- Great organizing. appreciate
- None
- All went well.
- The workshop was well organized and the facilitators were well prepared
- Nothing to report
- Perfectly fine.
- None
- Seemless
- so far all is good jerp it up
- no

What, if any, additional support do you need to apply what you've learned?

Facilitators

- More teachers dedicated to tutored support for learners
- For me I do not have background so it is quit difficult to absorb all the knowledge; however, the trainers are very helpful and very kind. I am very grateful. I need some supports following to finish my capestone.
- may you be available for us when we keep on building on our models. also require additional support to help with trainings in health economic evaluation modelling in Zimbabwe.may you kindly keep on considering us for more trainings either physical or online

Technical

- Need more assistance in doing a micro-simulation for our model
- need support to make costing
- Writing commands
- Request a continous technical support to complete the capstones and any other related national level projects on economic modelling
- about the sensitivity analysis , the hazards and the odds ratios
- courses and materials, videos
- If the VB team continue support when we have questions on Amua.
- We require some additional support to flesh out and develop a microsimulation
- i need some more support to understand the uncertainty analysis.
- please provide more examples of models developed by amua, and so participants can use them in practice.
- level up to decision-makers? maybe more influential!

Follow up

- For me I do not have background so it is quit difficult to absorb all the knowledge; however, the trainers are very helpful and very kind. I am very grateful. I need some supports following to finish my capestone.
- I need periodic support for the next few weeks.
- since you have opened the window for further consultation, I will do that opportunity
- provide continuous support when reached out to for additional help
- Follow up to assess progress of the teams with their projects.
- Review of the model and final products.
- success examples of how decision analysis models have been implemented in LMIC
- Would like to get in touch with the mentors for any additional support at a mutually agreed time (online).
- i think online mentorship will work to finish our capstone project and continuously learn
- Country consultations hopefully, just to validate our model once the data/probabilities are completed
- may you be available for us when we keep on building on our models. also require additional support to help with trainings in health economic evaluation modelling in Zimbabwe.may you kindly keep on considering us for more trainings either physical or online
- Post mentorship as next steps as Emily just announced, thank you!
- contacting respective facilitators whenever I face challenges when doing our cornerstone

Is there any other feedback you would like to provide related to the logistics of the workshop (travel, hotel, venue, meals, etc.)

Logistics

- The logistics were perfect, nothing to complain about. Just to suggest that direct flights be favoured over flights with stopovers for countries that have direct flights with the country hosting the workshop. Some people from Africa have had to pass through Ethiopia to get to Turkey, even though there are direct flights between their country and Turkey via Turkish airlines, without any advertising.
- the first two days of meals were much better than buffet. Planned group tour activity would have been excellent

I am okay with the arrangement

- It was a very nice arrangement
- no
- Nothing
- All good. Perfect.
- None
- None for now.
- No
- non
- Thank you very much.
- Logistic was absolutely smooth. Would take this opportunity to thank the entire team behind it
- nothing in particular, just to appreciate the opportunity given to learn.
- Come to Philippines <3
- everything was ok .thanks
- Excellent
- Great, hope more to be involved in the process and build and contribute to the economic evaluation research.
- N/A
- very thoughtful!
- logistics were excellently organised and well planned.
- very good.