

**FGAI4H-O-042**

Berlin, 31 May – 2 June 2022

**Source:** WHO

**Title:** Workshop: WG-Ethics - Knowledge transfer - Introductory course: Ethics and governance of AI4Health

**Purpose:** Discussion

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**Contact:** Ursula (Yu) Zhao

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**Abstract:** This PPT contains a presentation from the WG-Ethics workshop on “Knowledge transfer - Introductory course: Ethics and governance of AI4Health”.

**Knowledge  
transfer:**

# **Introductory course on Ethics and Governance of AI4H**

Strategy and governance unit

Department of Digital health and  
innovation



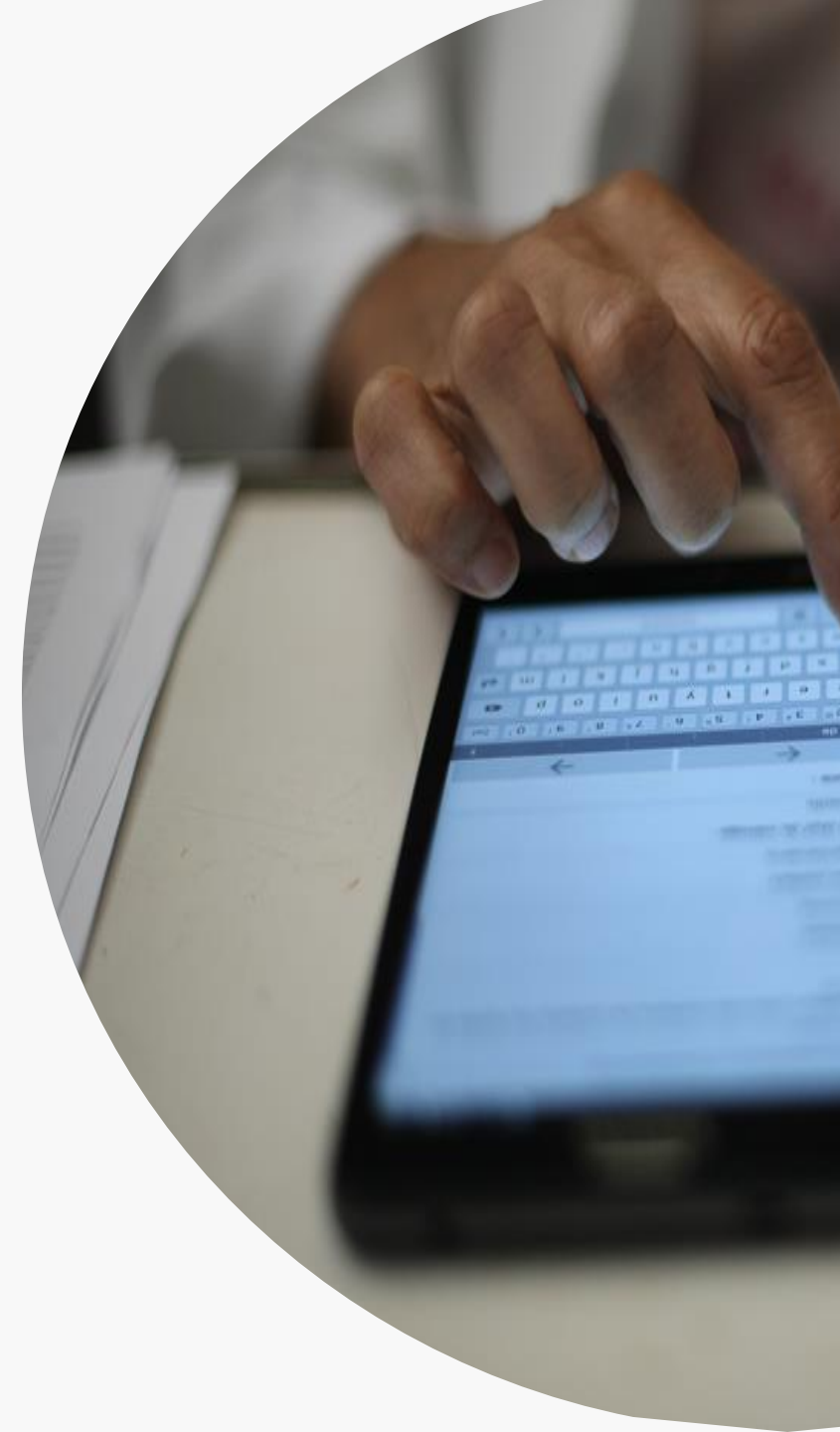
# Accelerate the implementation of the guidance

Free for all, at any time, at anywhere

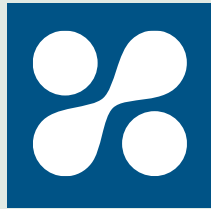
**Growing interest** among country authorities and other key stakeholders in how to best **implement** the WHO guidance on Ethics & governance of AI for Health.

Accelerate **translating** knowledge from the guidance into **actionable information** to support governments, AI developers and healthcare providers' activities.

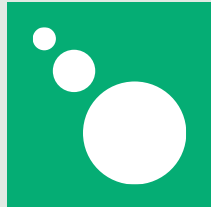
**Audience:** Member states, developers and health workforce



# 4 Strategic Objectives



**SO1** Promote **global collaboration** and advance the **transfer of knowledge** on digital health



**SO2** Advance the **implementation** of national digital health strategies



**SO3** Strengthen **governance** for digital health at global, regional and national levels



**SO4** Advocate **people-centred health systems** that are enabled by digital health

## Global strategy on digital health

The Seventy-third World Health Assembly, having considered the consolidated report by the Director-General<sup>1</sup> and the draft global strategy on digital health,<sup>2</sup> decided:

- (1) to endorse the global strategy on digital health;
- (2) to request the Director-General to report back on progress in the implementation of the global strategy on digital health to the Seventy-sixth World Health Assembly in 2023.

Third plenary meeting, resumed session, 13 November 2020  
A73/VR/3 (resumed)

## Learning objectives

1. Describe the **opportunities** and **benefits** of using AI in healthcare;
2. Outline the ethical **considerations** and explain the ethical **challenges** of its use;
3. Describe **liability considerations** associated with the design, development, and use of AI for health;
4. Summarise **frameworks** and **regulatory considerations** for the design, development, and use of such technology in the sector.





# Course structure

Module 1: Applications of Artificial Intelligence for Health

Module 2: Laws, Policies and Principles that Apply to the Use of Artificial Intelligence for Health

Module 3: Key Ethical Principles for Use of Artificial Intelligence for Health

Module 4: Ethical Challenges to Use of Artificial Intelligence for Health Care

Module 5: Building an Ethical Approach to Use of Artificial Intelligence for Health

Module 6: Liability Regimes for Artificial Intelligence for Health

Module 7: Elements of a Framework for Governance of Artificial Intelligence for Health

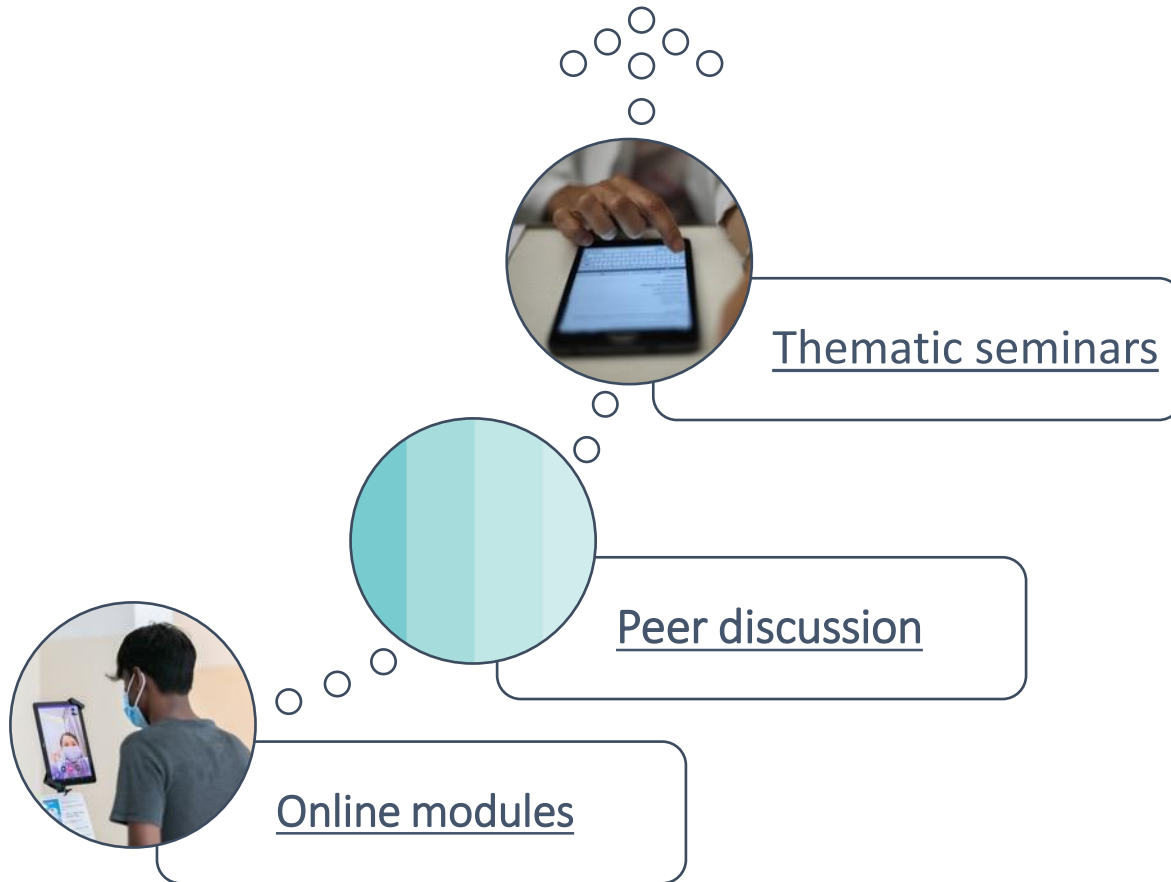
Practical Guidance for AI Developers

Practical Guidance for Ministries of Health

Practical Guidance for Healthcare Providers

Course Assessment

# Advocate community of learning



- › Syllabus
- › Course Introduction
- › Module 1: Applications of Artificial Intelligence for Health
  - About the Module
  - Module 1 Introduction
  - Unit 1: AI in Health Care
  - Unit 2: Emerging Trends for AI in Health
  - Unit 3: AI in Health Research and Drug Development
  - Unit 4: AI in Health Systems and Public Health Programmes
  - Knowledge Check
  - Discussions
- › Module 2: Laws, Policies and Principles
- › Module 3: Ethical Principles
- › Module 4: Ethical Challenges

## Unit 1: AI in Health Care

### Module 1: Applications of Artificial Intelligence for Health

#### Unit 1: AI in Health Care



## Knowledge Check

Edit Item Statistics

This quiz is a self-test. You can repeat it as often as you like.

### Question 1

1.0 Pts

What are the basic ethical principles for AI for health?

Select all that apply.

- Autonomy
- Efficiency
- Do no harm
- Beneficence
- Fairness

### Quanto Custa A VIDA?

0 votes 10 minutes ago

Unit 12: AI and Commercialization Module 4: Ethical Challenges

### Inteligência Artificial e Trabalho: Os Fins e os Inícios

0 votes 13 hours ago

Unit 11: AI, Labour and Employment Module 4: Ethical Challenges

### Inteligência Artificial e o Feed Back de Quem a Usa

0 votes 14 hours ago

Unit 9: Bias and Discrimination with AI Module 4: Ethical Challenges

### Tomada de Decisão Médica e do Paciente

0 votes 16 hours ago

Unit 7: Autonomous Decision Making Module 4: Ethical Challenges

### Inteligência Artificial e a Intenção de Tratar

0 votes a day ago

Unit 1: When Should AI be Used? Module 4: Ethical Challenges

# Learning certificates from WHO

1. A **Confirmation of participation** is offered at the end of the course
2. A **Record of Achievement** available for participants who score at least 80% in the final assessment

The image displays a composite of screenshots from a WHO course interface. At the top right, the WHO logo is visible. The main content area shows a course syllabus with the following structure:

- › Syllabus
- › Course Introduction
- › Module 1: Applications of Artificial Intelligence for Health
  - About the Module
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  - Knowledge Check
  - Discussions
- › Module 2: Laws, Policies and Principles
- › Module 3: Ethical Principles
- › Module 4: Ethical Challenges

A large graphic for 'Unit 1: AI in Health Care' features a woman using a smartphone with a medical sensor on her arm. Below this, a 'Knowledge Check' section is shown, containing the following text:

**Knowledge Check**  
Edit Item | Statistics

This quiz is a self-test. You can repeat it as often as you like.

**Question 1** 1.0 Pts

What are the basic ethical principles for AI for health?

Select all that apply.

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At the bottom, a list of discussion topics is displayed:

- Quanto Custa A VIDA? (0 votes, 10 minutes ago) | Unit 12: AI and Commercialization | Module 4: Ethical Challenges
- Inteligência Artificial e Trabalho: Os Fins e os Inícios (0 votes, 13 hours ago) | Unit 11: AI, Labour and Employment | Module 4: Ethical Challenges
- Inteligência Artificial e o Feed Back de Quem a Usa (0 votes, 14 hours ago) | Unit 9: Bias and Discrimination with AI | Module 4: Ethical Challenges
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- Inteligência Artificial e a Intenção de Tratar (0 votes, a day ago) | Unit 1: When Should AI be Used? | Module 4: Ethical Challenges



# How to enroll

<https://openwho.org/courses/ethics-ai>