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| A black and white logo  Description automatically generated with low confidence | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2022-2024 | FG-AI4H-Q-101 |
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| **Abstract:** | This document contains the report of the 17th meeting of the ITU-T Focus Group on Artificial Intelligence for Health (FG-AI4H), held in Douala, 6-8 December 2022. NOTE – The meeting was originally planned until 9 December but finished one day earlier, as all agenda items were covered by 8 December. |

Executive Summary

The 17th meeting of the FG-AI4H took place effectively in Douala, Cameroon, from 6 to 8 December 2022 to review updates to its ten deliverables including sub-deliverables, and review progress by the existing 24 topic groups. The meeting was originally planned until 9 December but finished one day earlier, as all agenda items were covered by 8 December. The first day of the meeting was used for a workshop on AI for health, which explored four main topics: health system strengthening, infectious disease, outbreaks, health finance to support universal health coverage; innovation, entrepreneurial support, education; telemedicine, medicines, non-communicable diseases; and radiology. The programme, presentations and recordings are found at <https://itu.int/en/ITU-T/Workshops-and-Seminars/ai4h/20221206>.

**FG-AI4H** **leadership**: there were no changes at this meeting.

**Topic groups:**

* Ivy Lee (American Academy of Dermatology, USA) is now a co-driver of **TG-Derma**, together with Harsha Jayakody (Flash Health, Sri Lanka)
* The group confirmed that the driver for the **TG on traditional medicine** (TG-TM) will be Saketh Ram Thrigulla (Ministry of Ayush, Government of India).

**Deliverables update:** No new Deliverables were agreed at this meeting. All available deliverables were reviewed, their latest version is found in the [FG-AI4H collaboration site](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/SitePages/Deliverables.aspx).

The following updated **output documents** were agreed:

* [Q-102](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-102.docx): Updated call for proposals: use cases, benchmarking, and data
* [Q-200](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-200.docx): Updated list of FG-AI4H deliverables
* [Q-105](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-105.docx): TDD template
* [Q-103](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-103.docx): CfTGP template

The following documents were reconfirmed:

* [F-103](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-F-103.docx): Updated FG-AI4H data acceptance and handling policy
* [C-104](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-C-104.docx): Thematic classification scheme
* [F-105](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-F-105.docx): ToRs for the WG-Experts and call for experts
* [F-106](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-F-106.docx): Guidelines on FG-AI4H online collaboration tools
* [M-107](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-M-107.docx): FG-AI4H onboarding document
* [FG-AI4H Whitepaper](https://www.itu.int/en/ITU-T/focusgroups/ai4h/Documents/FG-AI4H_Whitepaper.pdf) ([K-002](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-K-002.docx))

The meeting had 174 participants (78 remote) over the various days and reviewed 47 documents (not counting attachments).

No outgoing reply LSs were prepared.

A list of the decisions taken at the meeting is found in [Annex E](#AnnexE) of the report.

The next meeting of the FG-AI4H is planned to be held in Cambridge, MA, 21-24 March 2023, hosted by MIT and Harvard University. A workshop is planned on the first day of the event. Details will be communicated in the FG-AI4H webpage and mailing list.

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# Opening

The 17th meeting (Q) of the FG-AI4H took place in Douala, 6-9 December 2022 chaired by the FG-AI4H Chairman, Mr Thomas Wiegand (Fraunhofer HHI, Germany). He welcomed the participants and presented an overview of the FG-AI4H work, as found in [Q-002](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-002.pptx).

# Approval of agenda

The agenda in [Q-001](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-001.docx) (Agenda) was approved. No further updates on the agenda were issued during the meeting.

The time allocation for the presentation of meeting documents was maintained live at <https://docs.google.com/spreadsheets/d/1wQKHbZpKEZRfb-5K_T8XAeqnvdqSLKGRM_rJCXW6gcM>.

# Documentation and allocation

The initial list of documents and allocation in [Q-001](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-001.docx) were adopted. The final list is found in [Annex B](#AnnexB).

# IPR

The text in [Q-001](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-001.docx) Annex A was read and **no declarations** were made at the meeting.

It was highlighted that the IPR question should be asked periodically under the various TG (e‑)meetings, since many of participants in those may not be attending the FG-AI4H plenary meetings.

# Management updates

There were no updates to the FG-AI4H leadership team at this meeting.

# Approval of Meeting P outcomes and updates

The report of Meeting P (Helsinki, 20-22 September 2022) in [P-101](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-101.docx) was **approved** without comments.

The following documents from Meeting P were **noted** by the meeting:

* [P-102](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-102.docx): Updated call for proposals: use cases, benchmarking, and data
* [P-200](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-200.docx): Updated list of FG-AI4H deliverables
* [P-201](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-201.docx): DEL01 – Ethics and governance of artificial intelligence for health
* [P-202](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-202.docx): DEL2 – Overview of regulatory considerations on artificial intelligence for health
* [P-203](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-203.docx): DEL2.2 – Good practices for health applications of machine learning: Considerations for manufacturers and regulators

No comments were made.

1. The report of the meeting in Helsinki, 20-22 September 2022 found in [P-101](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-101.docx) was approved without comments and its five output documents were noted ([P-102](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-102.docx), [P-200](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-200.docx), [P-201](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-201.docx), [P-202](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-202.docx), and [P-203](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-203.docx)).

# Review of incoming liaison statements

## IEC TC62

[Q-035](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-035.docx) + [A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-035-A01.docx) – Communication received from IEC TC62 "Medical equipment, software, and systems" (in reply to FG-AI4H-LS7 " LS on discussion of potential for future collaboration", 11 January 2022) [from IEC TC62]

**Abstract:** This document is not properly a reply, but a communication from the IEC TC62 secretariat informing on steps taken at IEC TC62 to create a category A Liaison relationship with the FG-AI4H and requests that a form be provided for their 6-week ballot. A draft is provided in [A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-035-A01.docx).

The meeting agreed to the continuation of the liaison relationship. The FG-AI4H will complete the form and submit to the IEC TC62 secretariat for their follow up of the process.

## ITU-T SG13

[Q-036](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-036.docx) + [A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-036-A01.docx) – LS on announcement of new Supplement 72 to ITU-T Y.3000-series (ex Y.sup.aisr) "Artificial Intelligence standardization roadmap" [from ITU-T SG13]

**Abstract:** This liaison statement provides information about the agreed Supplement as a result of the ITU-T Working Party 2/13 meeting (Geneva, 25 November 2022).

The FG-AI4H provided replies to previous drafts of the new Y-series Supplement 72. The document was noted.

## FG-AI4A

[Q-038](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-038.docx) – LS on invitation to provide inputs to the roadmap of AI and IoT activities for digital agriculture [from FG-AI4A]

**Abstract:** This Liaison Statement informs on the opportunity to contribute to the roadmap on AI and IoT-related standards activities being developed within FG-AI4A. A reply table is provided.

The LS was noted.

# Information on AI-related activities

A workshop on AI4H was organized on the first day of the meeting, 6 December 2022, which explored four main topics: health system strengthening, infectious disease, outbreaks, health finance to support universal health coverage; innovation, entrepreneurial support, education; telemedicine, medicines, non-communicable diseases; and radiology. The workshop programme, presentations and a recording of the event are available from the event webpage at: [https://itu.int/en/ITU-T/‌Workshops-and-Seminars/ai4h/20221206](https://itu.int/en/ITU-T/Workshops-and-Seminars/ai4h/20221206). See also [Q-040](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-040.docx) for the programme and information on the various presentations at the event.

The meeting was reminded that a series of webinars took place, within the context of the AI for Good online events, <https://aiforgood.itu.int/eventcat/discovery-ai-and-health/>.

# Horizontal and strategic topics

## Introduction to FUTURE-AI (International guidelines for trustworthy and deployable AI in healthcare)

[Q-031](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-031.docx) + [A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-031-A01.pdf): FUTURE-AI: International guidelines for trustworthy and deployable AI in healthcare [University of Barcelona]

Mr Karim Lekadir (University of Barcelona) introduced the document using A01 about the FUTURE-AI H2020 project.

Trust in health is very important and takes time to build, example of the COVID vaccination case. The same is true for AI techniques in health. Success story, FAIR Guidelines (Findable, Accessible, Interoperable, Reusable) developed for scientific data management and stewardship, ref [www.go-fair.org](http://www.go-fair.org). Focused on the general rules and provide some examples. FAIR was adopted by the EU and made a report on cost benefit analysis; all H2020 projects in the area need to demonstrate that they follow the FAIR principles. The FUTURE-AI project focuses on six principles (Fairness, Universality, Traceability, Usability, Explainability and General aspects, see Figure 1) and 30 general rules, not specific issues, developed by consensus and literature review. Quoted DEL2.2, very thorough. Mentioned reporting guidelines. [www.future-ai.eu](http://www.future-ai.eu). Preparing a paper describing the methodology and applying it to two H2020 projects.





Figure 1 – List of principles identified for FUTURE-AI

We could review our documents with respect to the guidelines and how to map it. They are addressed in one way or another in our work. Have a meeting R in March 2023. Good to prepare a consolidated view, especially if there are gaps and possible misalignments that could be addressed.

How to organize this work? Experts in the room showed interest in helping (Markus Wenzel, Eva Weicken, Salim Diwani, Chison Prisca). Plan is to submit paper as contribution for the FG and then work on the gaps / mapping for discussion in Meeting R.

## Discussion on transition to ITU/WHO Global Initiative on AI for Health

Due to technical issues at the meeting venue, discussion was postponed to the next meeting in March 2023.

# Working Group updates

## Data and AI solution assessment methods (WG-DAISAM)

The WG is chaired by Pat Baird (Philips, USA), assisted by vice-chair, Luis Oala (Fraunhofer HHI, Germany) and Pradeep Balachandran (Technical e-health consultant, India).

No particular report was made at this meeting. Related discussion was made on Open Code Initiative, see §[‎11](#_FG-AI4H_Open_Code).

## Data and AI solution handling (WG-DASH)

WG-DASH has Marc Lecoultre (ML Lab, Switzerland) as chair and Ferath Kherif (CHUV, Switzerland) as Vice-chair.

No particular reports were provided specifically for WG-DASH. All the focus of the work has been in the Open Code Initiative, see §‎11.

## Operations (WG-O)

The WG on operations (WG-O) is co-chaired by Markus Wenzel and Eva Weicken (Fraunhofer HHI, Germany).

No particular reports were provided specifically for WG-O. All the focus of the work has been in progressing DEL0.1 and DEL7, see §‎12.

## Ethical considerations on AI for health (WG-Ethics)

The chair of the FG-AI4H WG-Ethics, Andreas Reis (WHO).

[***Q-043***](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-043.pptx)***: WG-Ethics update***

Andreas Reis and Ursula Zhao presented [FGAI4H-Q-043](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-043.pptx), which contains an overview of the ethics work in WHO and in the WG, also an update on the series of regional workshops for capacity building on applying ethics principles to AI in health use cases with a diverse range of users, focusing on regulators and other policy developers; important for those looking for applying principles but also for those learning about ethics in this field. Participated in dissemination activities, e.g. Google Health meeting on AI and health ethics. WG Ethics: conceptualization of online curriculum for programmers as a response to feedback from the Berlin meeting (Meeting O) was presented:

* Development of on-line curriculum for programmers on integrating ethical considerations into the design of AI health technologies.
* Background: Generic WHO online training course on Ethics & Governance of AI (nearly 10,000 enrolments)
* Demand by AI designers on specific training course
* Objectives:
* Identify and describe the ethical challenges and risks that can materialize during the AI technology lifecycle.
* Assess the ethical challenges and risks by raising relevant issues or questions throughout the decision-making process in all phases of the AI lifecycle.
* Mitigate ethical challenges and risks by making informed decisions while integrating ethical, medical, epistemic, societal, and political considerations and values.
* Methodology
* Modules organized around the AI-product development lifecycle and how different ethical principles apply at each stage.
* Case-study (challenge) based approach
* Provide examples of tools and technologies that are associated with implementing ethical design in practice.
* Next steps
* Provider selected and course skeleton draft by end of 2022
* Course development in the 1st half of 2023
* Goal: Course live by 1st August 2023

## Regulatory considerations on AI for health (WG-RC)

The chair of the WG-RC is Naomi Lee (Lancet, UK), assisted by Shada Alsalamah (WHO).

No specific report was made for the WG-RC, as the focus of the work has been in the preparation of DEL2. See §‎0.

Shada and Sameer mentioned that after DEL2 is published, focus of the WG-RC will be to receive feedback from the community on the document, and then to organize courses. There has also been a request to develop a regulatory consideration guidance more that is focused on SaMDs. The WG-RC will be slowly morphed into an informal experts group and is expected to be part of the activities of the Global Initiative on AI4H.

## Clinical Evaluation (WG-CE)

The co-chairs of the WG-CE are Naomi Lee (The Lancet, UK), Shubhanan Upadhyay (ADA Health, Germany), and Eva Weicken (Fraunhofer HHI, Germany).

The objectives of the WG-CE are to:

* Build a **community of collaboration** around clinical evaluation of AI for health
* Guidance for current **best practice evaluation**, **principles of evaluation** to ensure it is generally relevant across all countries
* Used by **researchers, clinicians, patients, developers, civil-society, policy-makers**
* Give special consideration of clinical evaluation in **LMIC settings**
* Take tasks that are applicable for **FG-AI4H**

Eva presented [Q-033-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-033-A01.pptx) on the overview of the WG-CE and DEL7.4 which is the focus of the WG. See §‎12.10.4.

## Collaborations and Outreach (WG-CO)

The chair of the WG-CO is Andrew Farlow (University of Oxford, UK), assisted by Matthias Groeschel.

Andrew presented the update in [Q-041](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-041.pptx), initially with takeaways from the workshop on 6 December. He informed the meeting of a forthcoming PLOS global public health series publication; developed an updated concept of a series of challenges / hackathons / project incubation; and is working on a concept for investment models considering impact as investment framework in addition to traditional investment considerations.

Sameer mentioned C&O will be a key element of the Global Initiative going forward.

## Ad-hoc group on digital technologies for COVID health emergency (AHG-DT4HE)

The co-chairs of the FG-AI4H ad hoc group on AHG on digital technologies for COVID health emergency (AHG-DT4HE) are Shan Xu (CAICT, China) and Ana Rivière-Cinnamond (PAHO/‌WHO).

A progress report was not provided at this meeting.

# FG-AI4H Open Code Initiative

The FG-AI4H open code initiative is chaired by Marc Lecoultre (ML Lab, Switzerland).

[FGAI4H-Q-045](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-045.pptx): Open Code Initiative – Status update [Chair]

[FGAI4H-Q-039](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-039.pptx): OCI update - AI-supported medical image annotation platform (HPI)

The OCI status update was presented by various participants:

* Overall presentation by Marc
* Data sharing and data sourcing by Ferath
* Data annotation package by Marc
* Evaluation (audit) package by Marc
* Reporting package by Pradeep

Marc Lecoultre introduced the slides in [Q-045](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-045.pptx) with overview. Develop software tools (e.g., data acquisition, data storage, annotation, prediction, evaluation, and reporting packages)

* Over 40 developers, regulators, and medical professionals from five continents are involved in the initiative
* Targeted towards a universal tool applicable across borders
* Usable by multiple stakeholders such as notified bodies and doctors

The platform is an end-to-end solution that focusses on the assessment of AI for health. It is not software to be used in a product, but rather to develop and assess it, and to provide guidance to implementers developing their own applications. The platform prototype is being tested in different proof-of concepts and the whitepaper for assessment platform is developed. Since one year, the team is implementing different features collaborating with different teams. In parallel, documentations are being developed. Requirements for each module are being built, and workshops helped them derive customer and software requirements. The OCI contains various packages:

* Core package – Marc Lecoultre presented. This package provisions the common services to all packages: Authentication and authorization to access resources, storage. FHIR used in the implementation to facilitate secure patient data transfer. Next steps: Integrate all packages; uniformize SSO usage; implement additional user management features.
* DAS (Data Acquisition and Storage) package – Ferath Kherif presented using the slides in [Q‑045](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-045.pptx), which are also related to DEL5.6. This package is responsible for data ingestion, storage and management. Data is organized in principled way using TOML hierarchical concept. Data is organized in Data spaces indicating areas to which the data is applicable. Details minimum metadata and context requirements. Next steps include data sourcing across different locations, and federated model implementation. Currently working on proof of concept.
* Data annotation package – Marc provided an overview of the annotation package within the context of the OCI and then Johanna Schlimme and Richard Keil (Hasso Plattner Institute, HPI, Germany) presented [Q-039](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-039.pptx) on the bachelor programme in HPI for implementing data annotation, along with details of the workflow being implemented within the context of the OCI. This package continues to work with the VISIAN project (visian.org) which is developing the annotation tool for the platform and this is being integrated in it.
* Evaluation (audit) package (based on eval.ai) – Marc presented. The trial audits teams hold regular meetings and detailed timeline. There is extensive documentation with user manual, playbook and tutorials, and a starter kit – <https://github.com/FG-AI4H/AI4H-Starters>. Finished the setup progress of the Docker-based evaluation pipeline but have some permission setting issues (VPC restriction) on AWS. The team plans on creating an automated environment creation and model submission and to integrate the audit and reporting packages. They also will implement preliminary evaluation scripts for TGs. The e-mail service was updated to allow for registration and inquiries and some small updates were made to the frontend. The work reached an important point, a proof point for Docker-based evaluation. An achievement is community building: <https://aiaudit.org/contributors/>. Collaboration with Google health team. Another achievement is integration of ML flow tool in the AWS environment, including shared storage buckets and *jupyter* notebooks for code and documentation. One full time software developer joins from October. Docker-based evaluation for reproducibility, control over s/w dependencies, easy scaling, future-proof and versatile, secure and isolated test environment. Identified challenges: need to increase the AWS environment capacity; modified legacy platform code; added feature enhancements to EvalAI CLI. Next steps: where/how to make test data available to Docker container; develop example benchmark; push code and write documentation. Stefan showed a demo on the evaluation package via the platform.
* Reporting package – Pradeep Balachandran (Technical e-health consultant, India) presented. Reporting package provides a customizable interface for the reporting of the ML model evaluation results. Two types of reports will be created: Basic Report and Custom Report. The Basic report has the format split into three sections: Data Specification Sheet; ML Model specification Sheet; and ML Model Summary. The regulatory guidelines will be integrated into the platform, as Regulatory Checklist Manager to implement “Custom Reporting” functionality.

The meeting acknowledged the excellent progress of the FG-AI4H Open Code Initiative and thanked Marc Lecoultre leading efficiently the work. The FG-AI4H looks forward to the next planned steps and reporting at the next FG-AI4H meeting.

Discussion:

* The chairman asked the WG-CO for help spreading the word on the OCI with universities. Marc and Andrew will discuss further.
* Henry (in chat): can TGs meanwhile smoothly edit their audit questionnaires themselves? Pradeep: Currently there is a limitation, but in the long term the team expects to enable custom editing by the TGs themselves.

# FG-AI4H deliverables

## General

Process for assessing quality of draft FG-AI4H deliverables

To ensure that the WHO/ITU FG-AI4H deliverables – a key contribution of our activities – achieve the maximum level of quality and offer value for stakeholders, a draft description of the peer review process for FG-AI4H deliverables was prepared and presented during Meeting K (see [K-029](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-K-029.docx%22%20%5Ct%20%22_blank)). At this meeting, no updates were provided. The FG-AI4H management will continue to review the matter and report in a future meeting.

List of deliverables

[***Q-004***](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-q-004.docx)***: Publication of Focus Group Deliverables – follow-up***

At Meeting N, document N-046 was presented with the results of a self-assessment on the progress of the various deliverables, and provided a basic analysis. Document O-004 (Berlin) furthered the earlier analysis and identified a possible way forward for each of them, on page 2 onwards. This version contains some updates to the original analysis. Attachment 1 contains a spreadsheet that was used to consolidate the existing data. The document was noted without presentation.

[Q-005](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-005.docx): Updated list of FG-AI4H deliverables (as of 2022-12-06) [TSB]

**Abstract**: This document summarizes the current status of the planned deliverables for the ITU-T Focus Group on AI for health (FG-AI4H), based on the output list from the meeting in Helsinki, September 2022, as found in [P-200](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-200.docx) / DEL00S and subsequent updates by the secretariat.

The document was noted, and it would be updated after the meeting according to the discussions affecting deliverables as shown in Table 1 hereinafter. Table 1 is used to update O-005 as found in [Q-200](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-200.docx) of this meeting.

The meeting reviewed progress for the various deliverables and highlights are provided in the next sub-sections of this report.

The latest version of the deliverables can always be found in the FG-AI4H collaboration site at <https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/SitePages/Deliverables.aspx>.

Table 1 – Updated list of deliverables (Updates to Q-005)

| No. | Deliverable | Updated initial draft editor | Presented? | Deliverable update? | Availability\* |
| --- | --- | --- | --- | --- | --- |
| 0 | [DEL0](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL00.docx): Overview of the FG-AI4H deliverables | Shan Xu (CAICT, China) | - | - | [P-044](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-044.docx)([Q-004](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-q-004.docx): TSB) |
| *0.1* | [DEL0.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL00_1.docx): *Common unified terms in artificial intelligence for health* | *Markus Wenzel* *(Fraunhofer HHI, Germany)* | - | - | [P-201](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-201.docx) *(agreed at P)* |
| *1* | [DEL1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL01.docx): *AI4H ethics considerations* | *Andreas Reis* *(WHO)* | - | - | [O-201](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-O-201.docx)*(agreed at O)* |
| *2* | [DEL2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL02.docx): *Overview of regulatory considerations on artificial intelligence for health* | *Shada Alsalamah* *(WHO)* | [Q-044](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-044.pptx) | - | [*P-202*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-202.docx)*(agreed at P)* |
| 2.1 | [DEL2.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL02_1.docx): Mapping of IMDRF essential principles to AI for health software | Luis Oala (Fraunhofer HHI, Germany), Pradeep Balachandran (Technical Consultant eHealth, India), Pat Baird (Philips, USA), Thomas Wiegand (Fraunhofer HHI, Germany) | - | - | [G-038](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-G-038.docx), [G-038-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-G-038-A01.xlsx) |
| *2.2* | [DEL2.2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL02_2.docx): *Good practices for health applications of machine learning: Considerations for manufacturers and regulators* | *Pradeep Balachandran* *(India) and* *Christian Johner* *(Johner Institut, Germany)* | - | - | [P-203](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-203.docx)*(agreed at P)* |
| 3 | [DEL3](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL03.docx): AI4H requirement specifications | Pradeep Balachandran (India) | - | - | [O-032](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-N-032.docx) |
| 4 | [DEL4](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL04.docx): AI software life cycle specification | Pat Baird (Philips, USA) | - | - | [J-033](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-J-033.docx)([L-046](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-046.pptx)) |
| 5 | [DEL5](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05.docx): Data specification | Marc Lecoultre (MLlab.AI, Switzerland) | - | - | [G-205](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-G-205.docx) |
| 5.1 | [DEL5.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_1.docx): Data requirements | [Marc Lecoultre (MLlab.AI, Switzerland)]\*\* | - | - | [I-044](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-I-044.docx) |
| 5.2 | [DEL5.2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_2.docx): Data acquisition  | Rajaraman (Giri) Subramanian (Calligo Tech, India), Vishnu Ram (India) | - | - | [G-205-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-G-205-A02.docx) |
| 5.3 | [DEL5.3](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_3.docx): Data annotation specification | Shan Xu (CAICT, China), Harpreet Singh (ICMR, India), Sebastian Bosse (Fraunhofer HHI, Germany) | - | - | [M-045](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-M-045.docx) |
| 5.4 | [DEL5.4](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_4.docx): Training and test data specification  | Luis Oala (Fraunhofer HHI, Germany), Pradeep Balachandran (India) | - | - | [I-034](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-I-034.docx)([L-045](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-045.pptx)) |
| 5.5 | [DEL5.5](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_5.docx): Data handling  | Marc Lecoultre (MLlab.AI, Switzerland) | - | - | [I-045](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-I-045.docx) |
| 5.6 | [DEL5.6](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_6.docx): Data sharing practices | Ferath Kherif (CHUV, Switzerland), Banusri Velpandian (ICMR, India), WHO Data Team | As part of OCI | - | [L-044](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-044.pptx) |
| 6 | [DEL6](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL06.docx): AI training best practices specification | Xin Ming Sim and Stefan Winkler (AI Singapore) | - | - | [K-037](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-K-037.docx) |
| 7 | [DEL7](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07.docx): AI for health evaluation considerations | Markus Wenzel (Fraunhofer HHI, Germany) | [A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-030-A01.pptx) | Y | [Q-030-R01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-030-R01.docx) |
| 7.1 | [DEL7.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07_1.docx): AI4H evaluation process description | Sheng Wu (WHO) | - | - | [G-207-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-G-207-A01.docx) |
| 7.2 | [DEL7.2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07_2.docx): AI technical test specification | Auss Abbood (Robert Koch Institute, Germany) | - | - | [I-027](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-I-027.docx)([L-051](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-051.pptx)) |
| 7.3 | [DEL7.3](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07_3.docx): Data and artificial intelligence assessment methods (DAISAM) reference | Luis Oala (Fraunhofer HHI, Germany) | - | - | [P-032](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-032.docx)([L-052](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-052.pptx)) |
| 7.4 | [DEL7.4](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07_4.docx): Clinical evaluation of AI for health | Naomi Lee (Lancet, UK), Eva Weicken (Fraunhofer HHI, Germany), Shubhanan Upadhyay (ADA Health, Germany) | [A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-033-A01.pptx) | Y | [Q-033](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-033.docx) |
| 7.5 | [DEL7.5](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07_5.docx): Assessment platform | Luis Oala (Fraunhofer HHI), Marc Lecoultre and Steffen Vogler (Bayer AG, Germany) | - | - | [I-037](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-037.docx) |
| 8 | DEL8: AI4H scale-up and adoption | Sameer Pujari (WHO), Yu ZHAO and Javier Elkin [Previously: Robyn Whittaker (New Zealand)] | - | - | –([O-056](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-O-056.pptx)) |
| 9 | [DEL9](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL09.docx): AI4H applications and platforms | Manjeet Chalga (ICMR, India) | - | - | [L-050](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-050.docx)([P-055](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-055.pptx)) |
| 9.1 | [DEL9.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL09_1.docx): Mobile applications | Khondaker Mamun (UIU, Bangladesh), Manjeet Chalga (ICMR, India) | - | Y | [Q-047](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FG-AI4H-Q-047.docx) |
| 9.2 | [DEL9.2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL09_2.docx): Cloud-based AI applications | Khondaker Mamun (UIU, Bangladesh) | - | - | [I-049](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-I-049.docx) |
| 10 | [DEL10.0](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL10_0.docx): AI4H use cases: Topic description documents | Eva Weicken (Fraunhofer HHI, Germany) | Y | Y | [Q-032](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-032.docx)([A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-032-A01.pptx)) |

NOTES

\* The document numbers indicated reflect the status as of the end of Meeting Q. Some links provided are to slide sets; these slide sets are not meant to be the deliverable documents, but rather a status update concerning progress of the respective deliverable. Documents in parenthesis are status updates, not a deliverable text. The draft deliverables for TG-Outbreaks and TG-Sanitation will be combined into a new TG-Outbreaks deliverable, following the decision to merge both TGs at Meeting O.

\*\* Acting editor

## New deliverable proposals

There were no new deliverable proposals at this meeting.

## Completed deliverables

DEL0.1: Common unified terms

The editor of this deliverable is Markus Wenzel, with contributions from Eva Weicken, Pat Baird, Shada Alsalamah, Stephanie Kuku, Rohit Malpani and Andreas Reis.

DEL0.1 was approved at Meeting P, as issued as [P-201](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-201.docx) and no updates were proposed.

DEL01: AI4H ethics considerations

The editor of this deliverable is Andreas Reis (WHO).

DEL1 was approved at Meeting O, as issued as [O-201](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-O-201.docx) and no updates were proposed. DEL1 is an identical publication of the 2021 WHO *Ethics and governance of artificial intelligence for health guidance*. No updates were proposed at this meeting.

See ‎10.4 on WG-Ethics for further reporting.

DEL02: AI4H regulatory best practices

The current editor of [DEL2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL02.docx) is Shada Alsalamah (WHO).

[Q-044](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-044.pptx): DEL02: Regulatory Concepts on Artificial Intelligence for Health

Shada briefed the updates of DEL02 as a result of work done by WG-RC.

DEL2 was approved at Meeting P, as issued as [P-202](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-202.docx) and no updates were proposed. Publication on WHO platform is planned for early 2023.

DEL02.2: Good practices for health applications of machine learning: Considerations for manufacturers and regulators

The editors of [DEL2.2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL02_2.docx) are Pradeep Balachandran (Technical e-health consultant, India) and Christian Johner (Johner Institut, Germany)

DEL2.2 was approved at Meeting P, as issued as [P-203](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-203.docx) and no updates were proposed.

## DEL00: Overview of the FG-AI4H deliverables

This deliverable provides a summary of all planned deliverables in FG-AI4H, including nine generalized specifications on ethics, regulatory, requirement, data, training, evaluation, application, etc., and 24 topic description documents on specific use cases with corresponding AI/ML tasks. This document is to give a comprehensive overview on the structure, progress, corresponding scopes and relationship on those deliverables, to avoid conflict and facilitate collaborations.

No updates were made to [DEL00](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL00.docx) at this meeting. Latest version is as found in [P-044](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-044.docx) is available on the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

## DEL02.1: Mapping of IMDRF essential principles to AI for health software

The editors of [DEL2.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL02_1.docx) are Luis Oala (Fraunhofer HHI, Germany), Pradeep Balachandran (Technical e-health consultant, India), Pat Baird (Philips, USA), Thomas Wiegand (Fraunhofer HHI, Germany)

Also at this meeting, there was no update to DEL2.1 and the most recent version (G-038 at Meeting G) is found in the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

## DEL03: AI4H requirements specifications

The editor of [DEL3](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL03.docx) is Pradeep Balachandran (Technical e-health consultant, India).

No updates were made to DEL3 at this meeting. The most recent version (O-032 at Meeting O) is found in the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

This Deliverable is very mature and planned for approval in the March 2023 timeframe.

## DEL04: AI software life cycle specification

The editor of [DEL4](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL04.docx) is Pat Baird (Philips, USA).

There was no update to DEL04 at this Meeting, whose latest update was prepared for meeting J, as found in the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

## DEL05: Data specification

The editor of [DEL05](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05.docx) is Marc Lecoultre (MLlab.AI, Switzerland). The latest update was reviewed at Meeting G, as found in [G-205](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-G-205.docx).

There was no update to DEL5 and the most recent version is found in the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

### DEL05.1: Data requirements

The acting editor for [DEL5.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_1.docx) deliverable is Marc Lecoultre (MLlab.AI, Switzerland).

There was no update to DEL5.1. The most recent draft was prepared by Marc Lecoultre (who oversees the parent Deliverable 5), as found in [I-044](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-I-044.docx) (Meeting I). We are still looking for new editors to take over this Deliverable.

### DEL05.2: Data acquisition

Rajaraman (Giri) Subramanian (Calligo Tech, India) and Vishnu Ram (India) are the editors.

No updates were provided at this meeting and the editors did not join the meeting. The latest draft of [DEL05.2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_2.docx) found in the deliverables folder was developed at meeting G ([G-205-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-G-205-A02.docx), New Delhi), which tries to address the lack of widely-accepted, standardized ways to acquire medical data.

### DEL05.3: Data annotation specification

The editors of [DEL5.3](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_3.docx) are Shan Xu (CAICT, China), Harpreet Singh (ICMR, India), Sebastian Bosse (Fraunhofer HHI, Germany).

There were no updates to DEL05.3 at this meeting.

The latest version of DEL5.3 as found in [M-045](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-M-045.docx) (Meeting M) is available in the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

### DEL05.4: Training and test data specification

The editors of [DEL5.4](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_4.docx) are Luis Oala (Fraunhofer HHI, Germany), Pradeep Balachandran (Technical e-health consultant, India).

No updates were done in DEL5.4.

The latest version is available from the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

### DEL05.5: Data handling

The editor of [DEL05.5](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_5.docx) is Marc Lecoultre (MLlab.AI, Switzerland).

There was no update to DEL05.5 at this meeting. The last update to [DEL05.5](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_5.docx) was in meeting I ([I-045](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-I-045.docx)).

This Deliverable is very mature and planned for approval in the March 2023 timeframe.

### DEL05.6: Data sharing practices

The editors of [DEL5.6](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_6.docx) are Ferath Kherif (CHUV, Switzerland) and Banusri Velpandian (ICMR, India), assisted by the WHO Data Team.

[Q-046](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-046.pptx): DEL05.6 - Data sharing and data sourcing update

Ferath presented activities related to DEL5.6 during his presentation on the OCI Initiative (§11) using the presentation in [Q-046](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-046.pptx), but no update to DEL5.6 was submitted at this meeting, the latest update having being made at Meeting L ([L-044](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-044.pptx)), as found in the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

## DEL06: AI Training best practices specification

The editors of [DEL6](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL06.docx) are Xin Ming Sim and Stefan Winkler (AI Singapore).

There was no update to DEL6 at this meeting, the latest update having being made at Meeting K ([K-037](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-K-037.docx)), as found in the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

## DEL07: AI for health evaluation considerations

The editor of [DEL7](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07.docx) is Markus Wenzel (Fraunhofer HHI, Germany).

[Q-030-R01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-030-R01.docx) + [A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-030-A01.pptx): DEL07 Update [Editors]

**Abstract:** In this document, considerations on the evaluation and benchmarking of health AI are presented, novel characteristics of health AI validation and evaluation are identified, and the concept of standardized model benchmarking is discussed. Moreover, requirements for a benchmarking platform are considered in detail, and best practices for the health AI model assessment are collected from selected sources. This document was submitted as Q-030-R1 at the FG-AI4H meeting Q (Douala, 7-9 December 2022).

Markus introduced [Q-030-R01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-030-R01.docx) using the slides in [A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-030-A01.pptx). He noted that DEL7 could be ready for review by next spring. Markus encouraged colleagues to point him to additional documentation and published work on best evaluation practices in AI4H.

Karim: explainability seemed in their experience the most difficult parameter to assess.

The update to DEL7 as found in [Q-030-R01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-030-R01.docx) was uploaded to the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).



###  DEL07.1: AI4H evaluation process description

The editor of [DEL7.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07_1.docx) is Sheng Wu (WHO).

No updates were provided to DEL7.1 at this meeting; the latest update was provided in meeting G ([G-207-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-G-207-A01.docx)).

###  DEL07.2: AI technical test specification

The editor of [DEL7.2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07_2.docx) is Auss Abbood (Robert Koch Institute, Germany).

No updates were provided to DEL7.2. The last update of the text of DEL7.2 was prepared for meeting I ([I-027](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-I-027.docx)), as found in the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

###  DEL07.3: Data and artificial intelligence assessment methods (DAISAM) reference

The editor of [DEL 7.3](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07_3.docx) is Luis Oala (Fraunhofer HHI, Germany), with Pradeep Balachandran (Technical e-health consultant, India).

No updates were provided to DEL7.3. The latest update was provided in meeting P as [P-032](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-032.docx) is available on the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

###  DEL07.4: Clinical evaluation of AI for health

The editors of [DEL7.4](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07_4.docx) are Naomi Lee, Rupa Sarkar (Lancet, UK), together with Eva Weicken (Fraunhofer HHI, Germany) and Shubs Upadhyay (ADA Health, Germany).

[Q-033](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-033.docx) + [A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-033-A01.pptx): Updated DEL7.4 - Clinical evaluation of AI for health [Editors]

**Summary**: This document provides an overview of the current challenges of "Clinical Evaluation of AI for Health". It is part of the deliverable-series 7.1-7.4 that are outlined by deliverable No.7 "AI for Health Evaluation considerations". The purpose of the deliverable No.7.4 is to outline the current best practices, the principles and outstanding issues for further considerations related to clinical evaluation of AI health technologies. It serves as the output document of the WHO/ITU Focus Group on AI for Health (FG-AI4H) Working group on Clinical Evaluation of AI for Health (WG-CE). More background information is provided in the Terms of reference ([https://itu.int/en/‌ITU-T/focusgroups/ai4h/Pages/wg.aspx](https://itu.int/en/%E2%80%8CITU-T/focusgroups/ai4h/Pages/wg.aspx)) and the WG-CE collaboration site ([https://extranet.itu.int/‌sites/itu-t/focusgroups/ai4h/wg/SitePages/WG-CE.aspx](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/wg/SitePages/WG-CE.aspx)).

Eva presented the updates to DEL7.4 using the slides in [A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-033-A01.pptx).A01

The draft is the collaborative work of about 65 expert members. The continues under internal review in WHO and is targeted for publication alongside DEL2. Some ideas for outreach and coordination include round tables, create shorter version of the document, develop presentation slides for decision makers and developers, and develop training materials. Concerning improvement and implementability of the guidelines, the idea is to apply in mature TGs (e.g. TG-PoC) and provide feedback for a further edition of the document. FIND expressed interest in applying the guidelines to their projects. Another goal moving forward, in addition to continuing the community created as an experts' group for related discussions, is to create a group that could consider economic evaluation aspects. EU did studies on cost-benefit analysis for AI, their methodology could be analysed for reuse in the work of the WG-CE.

Looking for suggestions on the best ways to implement the way forward.

Discussions:

* Who should be responsible for monitoring of performance of tools? Hospital or external? Both are possible, the document does not prescribe. Should be dependent on the type of deployment, clinical or development, with some regulation potentially being needed.

Thomas reiterated his suggestion that all topic drivers have a look at the draft and consider implementing the guidance found in it. It is the time to start thinking of real implementation for the next step in the FG work.

The FG appreciated the good progress on this deliverable.

This Deliverable is very mature and its submission for approval is pending review by the WHO. Approval is expected for the next meeting planned in March 2023.

The update to DEL7.4 as found in [Q-033](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-033.docx) was adopted to be uploaded to the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

### DEL07.5: Assessment Platform

The editors of DEL7.5 are Luis Oala (Fraunhofer HHI), Marc Lecoultre and Steffen Vogler (Bayer AG, Germany).

No update to DEL7.5 was provided at this meeting. The latest update was made available in Meeting I ([I-037](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-037.docx)), which can be found in the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

## DEL08: AI4H scale-up and adoption

The editor of [DEL8](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL08.docx) is Sameer Pujari (WHO) with Yu (Ursula) Zhao and Javier Elkin.

There is currently no draft of DEL8, and no updates were provided at this meeting.

## DEL09: AI4H applications and platforms

The editors of [DEL9](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL09.docx) are Manjeet Chalga (ICMR, India), Aveek De (CMS, India).

There were no presentation nor updates at this meeting. The latest update was made available in Meeting L ([L-050](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-050.docx)), which can be found in the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

### DEL09.1: Mobile Applications

The editor of [DEL09.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL09_1.docx) are Khondaker Mamun (UIU, Bangladesh) and Manjeet Chalga (ICMR, India).

The update to the draft of DEL9.1 was submitted ([Q-047](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FG-AI4H-Q-047.docx)) but no presentation was made at this meeting. The update (Q-047) was uploaded to the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

### DEL09.2: Cloud-based AI applications

The editor of [DEL 9.2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL09_2.docx) is Khondaker Mamun (UIU, Bangladesh).

No updates to the draft of DEL9.2 were provided at this meeting. The last update was made available in Meeting I ([I-049](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-K-049.docx)), which can be found in the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

## DEL10: AI4H use cases: Topic Description Documents

The editor of [DEL10](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL10.docx) is Eva Weicken (Fraunhofer HHI, Germany).

[Q-032](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-032.docx): DEL10 Update: AI4H use cases: Topic Description Documents [Editor]

**Abstract:** This document provides an overview of the ITU/WHO Focus Group on AI for Health (FG-AI4H) "AI4H use cases: Topic Description Documents". Each use case is represented by a topic group that is dedicated to a specific health topic in the context of AI. The topic group proposes a procedure to benchmark AI models developed for a special task within this health topic. All members of a topic group create a topic description document (TDD) that contains information about the structure, operations, features, and considerations of the specific health topic. This document constitutes deliverable No. 10 (DEL.10\_0) and serves as an introduction to the topic groups and their topic description documents.

Eva introduced the deliverable using the slides in [A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-032-A01.pptx%22%20%5Ct%20%22_blank). This Deliverable provides a summary of all TDDs, which are part of the documentation of each of the Topic Groups (see §‎13). The current version updates information as a result of the progress in the various TGs.

The update to DEL10 as found in [Q-032](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-032.docx) was adopted to be uploaded to the [deliverables website](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/).

# Topic Group updates

Table 2 shows the status of the current TGs for FG-AI4H.

The meeting format grouped the TGs in thematic groups for presentation and discussion, as shown in Table 3.

## Template updates: TDD, CfTGP

Minor updates were made at this meeting to TDD and CfTGP templates to refresh each cover page for the new ITU-T Study Period. Drivers for the new topic groups are requested to submit at the next meeting a topic description document and call for topic group participation using the current templates:

* [Q-105](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-105.docx) (TDD)
* [Q-103](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-103.docx) (CfTGP)

The TG drivers have been reminded / requested on various occasions to update their TDDs and CfTGP based on the new templates, and a few have already done that.

Table 2 – Summary status update for the various topic groups

| Cover page | Group | Title | Driver(s) | Organization | Meeting created | TDD | CfTGP | PPT used? |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [Q-006](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-006.docx) | TG-Cardio | Cardiovascular disease risk prediction | Benjamin Muthambi | WatIF Health, South Africa | C | N | H | – |
| [Q-007](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-007.docx) | TG-Derma | Dermatology | Harsha Jayakody, Ivy Lee | Flash Health, Sri Lanka | B | Q | P | Yes |
| [Q-008](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-008.docx) | TG-Bacteria | Diagnosis of bacterial infection and anti-microbial resistance | Nada Malou | Médecins Sans Frontières, France | F | L | – | – |
| [Q-009](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-009.docx) | TG-DiagnosticCT | Volumetric chest CT | Kuan Chen | InferVision, China | D | P | H | – |
| [Q-010](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010.docx) | TG-Dental | Dental diagnostics and digital dentistry | Falk Schwendicke, Joachim Krois | Charité Berlin, Germany | G | Q | Q | Yes |
| [Q-011](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-011.docx) | TG-FakeMed | AI-based detection of falsified medicine | Frank Verzefé | TrueSpec-Africa, DRC | F | J | H | Yes |
| [Q-012](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-012.docx) | TG-Falls | Falls among the elderly | Pierpaolo Palumbo | University of Bologna, Italy; Fraunhofer Portugal | B | P | H | Yes |
| [Q-013](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-013.docx) | TG-Histo | Histopathology | Frederick Klauschen | LMU Munich & Charite Berlin, Germany | B | I | E | Yes\* |
| [Q-014](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-014.docx) | TG-Malaria | Malaria detection | Rose Nakasi | Makerere University, Uganda | F | N | L | Yes |
| [Q-015](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-015.docx) | TG-MCH | Maternal and child health | Raghu Dharmaraju, Alexandre Chiavegatto Filho | Wadhwani AI, India; University of Sao Paulo, Brazil | D; rescoped in Meeting G | P | H | Yes |
| [Q-016](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-016.docx) | TG-Neuro | Neurological disorders | Marc Lecoultre, Ferath Kherif | ML Labs, Switzerland; CHUV, Switzerland | B | L | E | Yes |
| [Q-017](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-017.docx) | TG-Ophthalmo | Ophthalmology | Arun Shroff | MedIndia, India | B | P | M | Yes |
| [Q-018](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-018.docx) | TG-Outbreaks | Outbreak detection | Auss Abbood and Alexander Ullrich; Alexander Radunsky and Khahlil Louisy | Robert Koch Institute, Germany; Institute for Technology & Global Health, ITGH, US | E | K | I | – |
| [Q-019](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-019.docx) | TG-Psy | Psychiatry | Nicolas Langer | ETH Zurich, Switzerland | C | K | H | – |
| [Q-020](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-020.docx) | TG-Snake | Snakebite and snake identification | Rafael Ruiz de Castaneda | UniGe, Switzerland | B | I | G | – |
| [Q-021](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-021.docx) | TG-Symptom | Symptom assessment | Henry Hoffmann | Ada Health, Germany | B | Q | N | Yes |
| [Q-022](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-022.docx) | TG-TB | Tuberculosis | Manjula Singh | ICMR, India | C | M | E | Yes |
| [Q-023](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-023.docx) | TG-Radiology | AI for radiology | Darlington Akogo | minoHealth AI Labs, Ghana | D; H (rescoped) | P | H | – |
| [Q-024](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-024.docx) | TG-Diabetes | primary and secondary diabetes prediction | Andrés Valdivieso | Anastasia.ai, Chile | H | K | L | – |
| [Q-025](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025.docx) | TG-Endoscopy | AI for endoscopy | Jianrong Wu | Tencent Healthcare, China | I | Q | J | Yes |
| [Q-026](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-026.docx) | TG-MSK | AI for Musculoskeletal medicine | Peter Grinbergs, Yura Perov | EQL, UK; UK | J | Q | Q | – |
| [Q-027](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-027.docx) | TG-Fertility | AI for human reproduction and fertility | Susanna Brandi, Eleonora Lippolis | Merck KGaA, Darmstadt, Germany | L | N | M | – |
| [Q-029](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-029.docx) | TG-TM | AI for traditional medicine | Saketh Ram Thrigulla | Ministry of Ayush, India | P | Q | Q | Yes |
| [Q-028](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-028.docx) | TG-POC | Topic Group on AI for point-of care diagnostics | Nina Linder | University of Helsinki, Finland | L | Q | M | Yes |

\* Presentation files not provided to the secretariat

Table 3 – Presentation of TGs in Meeting P

| Thematic group | Topic Group | Presenter | Update |
| --- | --- | --- | --- |
| Topic Groups (I) | TG-Falls | Barry Greene | – |
| TG-FakeMed | Franck Verzefé | [Q-011-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-011-A03.pptx) |
| TG-Falls | Barry Greene | – |
| Topic Groups (II) | TG-Dental | Joachim Krois | [Q-010-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010-A03.pptx) |
| TG-Endoscopy | Jianrong Wu | [Q-025-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025-A03.pptx) |
| Topic Groups (III) | TG-Neuro | Ferath Kherif | [Q-016-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-016-A03.pptx) |
| TG-Symptom | Henry Hoffmann | – |
| Topic Groups (IV) | TG-Malaria | Rose Nakasi | – |
| TG-Histo | Frederick Klauschen | – |
| Topic Groups (V) | TG-Derma | Harsha Jayakody | [Q-007-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-007-A03.pptx) |
| TG-MCH | Alexandre Chiavegatto | ­ |
| TG-TB | Manjula Singh | [Q-022-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025-A03.pptx) |
| TG-POC | Nina Linder | [[Q-028-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-028-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-026-A03.pptx) |
| TG-TM | Saketh Ram Thrigulla | [[Q-029-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-029-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-026-A03.pptx) |
| TG-Ophthalmo | Arun Shroff | [Q-017-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-017-A03.pptx) |

## TG-Cardio: Use of AI in cardiovascular disease management

Benjamin Muthambi is the driver for the main topic as well as for sub-topic 1 (CVD Risk Prediction using AI). The latest documentation available is as follows:

TDD: [Q-006-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-006-A01.docx) (Same as Meeting N)
CfTGP: [Q-006-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-006-A02.docx) (Same as Meeting H)
Contributions: N/A

No updates were provided at this meeting.

## TG-Derma: AI for Dermatology

Harsha Jayakody (Flash Health, Sri Lanka) took over the role of the Topic Driver since Meeting P. At this meeting, Ivy Lee (American Academy of Dermatology, USA) became a co-driver.

TDD: [Q-007-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-007-A01.docx) – [Q-007-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-007-A03.pptx)
CfTGP: [Q-007-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-007-A02.docx) (Same as Meeting P)

Harsha presented their work using slides in [A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-007-A03.pptx). Manjula suggested to consider differentiation between a pathological condition to wrinkles and simple aging process, as well as scales caused by various conditions.

The Deliverables folder was updated with the updated TDD in [Q-007-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-007-A01.docx).

1. It was agreed that Ivy Lee (American Academy of Dermatology, USA) is now a co-driver of **TG-Derma**, together with Harsha Jayakody (Flash Health, Sri Lanka)

## TG-Bacteria: Diagnoses of bacterial infection and anti-microbial resistance (AMR)

The Topic Driver is Nada Malou. The latest documentation available is as follows:

TDD: [Q-008-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-008-A01.docx) (Same as Meeting L)
CfTGP: N/A
Contributions: N/A

No progress report was presented.

## TG-Diagnostic CT: Volumetric chest computed tomography

The Topic Driver is Kuan Chen. The latest documentation available is as follows:

TDD: [Q-009-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-009-A01.docx)
CfTGP: [Q-009-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-009-A02.docx) (Same as Meeting H)
Contributions: N/A

No progress report was presented.

## TG-Dental: Dental diagnostics and digital dentistry

The Topic Drivers are Falk Schwendicke (Charité Berlin, DE), Joachim Krois (Dental XR AI, Germany); and Tarry Singh (deepkapha.ai, Netherlands). The latest available documentation is as follows:

TDD: [Q-010-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010-A01.docx) – [Q-010-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010-A03.pptx)
CfTGP: [Q-010-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010-A02.docx)
Contributions: N/A

Joachim reported updates using slides in [Q-010-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010-A03.pptx). The TDD document was updated for this meeting, see [Q-010-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010-A01.docx). Contributors to this group increase rapidly and seven new members joined the TG since Meeting P, and now the group has 54 members from 22 countries of 6 continents. The group works on a learning curriculum of specific dental areas, and this will be published on Journal of Dentistry in January 2023. To train the dataset, three models are tested: local, central and federated learning model. Study showed the federated learning model is robust and efficient one.

Its own website (<https://www.autodontics.com/>) promotes to reach out more dentists to establish standardized benchmarking of Endodontic AI systems.

The Deliverables folder was updated with the updated TDD in [Q-010-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010-A01.docx).

## TG-FakeMed: AI-based detection of falsified medicine

The Topic Driver is Franck Verzefé. The latest documentation available is as follows:

TDD: [Q-011-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-011-A01.docx) (Same as meeting J) – [Q-011-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-011-A03.pptx)
CfTGP: [Q-011-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-011-A02.docx) (Same as Meeting H)
Contributions: N/A

Franck presented an overview of the TG work as found in [Q-011-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-011-A03.pptx). Through AI4MED the database containing clean data on genuine medicines found in Africa is being built, and data is being trained. He indicated he would be providing an update to the TDD for the end of this meeting.

Questions were raised:

Can the IR spectrum be faked to fool the AI?

Is the system going to detect the medicines that are about to be expired?

## TG-Falls: Falls amongst the elderly

The Topic Driver is Pierpaolo Palumbo (University of Bologna, Italy). The latest documentation available is as follows:

TDD: [Q-012-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-012-A01.docx) (Same as Meeting P) – [Q-012-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-012-A03.pptx)
CfTGP: [Q-012-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-012-A02.docx) (Same as Meeting H)
Contributions: [Q-037](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-037.docx)

Barry Greene (Kinesis Health Technologies) presented on behalf of the TG Driver.

No updates were made to the TDD, which was last updated for Meeting P, nor to the CfTGP (Meeting H).

[Q-037](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-037.docx): Smart GAIT System Requirements for Preventing Falls Among the Elderly [Nanfang College, China]

**Abstract**: Consistent and sustainable elderly care is needed to maintain and improve mobility, as defined in WHO ICOPE Handbook (WHO/FWC/ALC/19.1). Evidence-based efforts are needed to define the requirements to monitor and improve mobility, including the assessment and management of the risk of falls. Such requirements will provide foundations to build people-centred design of smart GAIT Systems that prevent falls among the elderly. To identify the latest technologies, use scenarios, and requirements, the study has conducted a scoping review and bibliometric analysis of the literature on GAIT analysis for preventing falls among the elderly. By visualizing and analysing 146 Web of Science results retrieved in November 2022, the study reveals the intellectual, conceptual and social structure of literature. With the results as baseline, the study defines the requirements of the smart GAIT systems, with recommendations for medical and computer experts, project managers of smart elderly care products, services, institutions and real estate developers. The requirements should foster a discussion on the taxonomy, use scenarios, and the challenges and opportunities in building smart GAIT systems that prevent falls among the elderly.

Han-Teng Liao presented using the slides in A01 (not shared). He asked if the research fits the Focus Group outcome. Eva suggested to discuss with TG-Falls if they can collaborate on this topic. Due to a connection issue, question and discussion were requested to be made offline.

## TG-Histo: Histopathology

The Topic Driver is Frederick Klauschen. The latest documentation available is as follows:

TDD: [Q-013-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-013-A01.docx) (Same as Meeting I)
CfTGP: [Q-013-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-013-A02.docx) (Same as Meeting E)
Contributions: N/A

Klauschen presented the overview and updates of the work using slides in A03 (presentation not submitted). Current covered diseases are breast cancer, non-small-cell lung cancer, colorectal cancer.

Additional outreach activity is planned for Challenge for AI-based cancer detection at the European Congress on Digital Pathology, Catania, Italy, 14 – 17 June 2023.

No progress report was provided at this meeting.

## TG-Malaria: Malaria detection

The Topic Driver is Rose Nakasi. The latest documentation available is as follows:

TDD: [Q-014-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-014-A01.docx) (Same as meeting N) – [Q-014-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-014-A03.pptx)
CfTGP: [Q-014-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-014-A02.docx) (Same as meeting L)
Contributions: N/A

Rose Nakasi presented the updates using slides in [Q-014-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-014-A03.pptx). CNN model is utilized for detecting malaria parasites in imaging analysis. The group is preparing a new challenge based on *codabench* to a wider community and gather more datasets for training and testing. Work on data formats will be needed.

No updates were made to the TDD, which was last updated for Meeting N, nor to the CfTGP (Meeting L).

## TG-MCH: Maternal and child health

The Topic Drivers are Raghu Dharmaraju (Wadhwani AI, India) and Alexandre Chiavegatto (University of São Paulo, Brazil).The latest documentation available is as follows:

TDD: [Q-015-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-015-A01.docx) (same as Meeting P) – [Q-015-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-015-A03.pptx)
CfTGP: [Q-015-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-015-A02.docx) (Same as Meeting H)
Contributions: N/A

Chiavegatto briefed the meeting on the updates with the slides in [Q-015-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-015-A03.pptx). He noted that machine learning has a role in helping reduce rates of death and complication at birth, which in many cases can greatly benefit from simple, low-cost interventions, if early enough warnings are provided. Algorithms need to use routinely available variables. If algorithms use expensive exams, it will be difficult to significantly improve the current situation.

The goal is to predict the risk of neonatal mortality using only data routinely available from birth records in the largest city of the Americas. Last year their lab published their research on algorithms developed to predict neonatal mortality using birth records in Sao Paulo. Since the Meeting P, Global Network’s Maternal New-born Health Registry (MNHR) is utilized to see minimum predictive performance.

For TDD, the group will concentrate on one use case among large areas of work in this field.

No updates were made to the TDD, which was last updated for Meeting P, nor to the CfTGP (Meeting H).

## TG-Neuro: Neurological disorders

The Topic Driver is Marc Lecoultre (ML Labs, Switzerland), with Ferath Kherif (CHUV, Switzerland). The latest documentation available is as follows:

TDD: [Q-016-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-016-A01.docx) (Same as Meeting L) – [[Q-016-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-016-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-O-016-A03.pptx)CfTGP: [Q-016-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-016-A02.docx) (Same as Meeting E)
Contributions: N/A

Ferath presented the overview of the work of the TG using the slides in [Q-016-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-016-A03.pptx). Both federated learning and secret sharing models are applied. Working on hardware acceleration using small devices.

No updates were made to the TDD, which was last updated for Meeting L, nor to the CfTGP (Meeting E).

## TG-Ophthalmo: Ophthalmology

The Topic Driver is Arun Shroff. The latest documentation available is as follows:

TDD: [Q-017-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-017-A01.docx) (same as Meeting P) – [Q-017-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-017-A03.pptx)
CfTGP: [Q-017-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-017-A02.docx) (Same as Meeting M)
Contributions: N/A

Arun reported updates using slides in [A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-017-A03.pptx). Five subtopics exist under the TG. The group completed the tasks of the ML Audit Trials 2.0, and documents will be available soon. Dockerized challenge will be implemented. Remaining sections of TDD, on ethics benchmarking and reporting will be completed.

No updates were made to the TDD, which was last updated for Meeting P, nor to the CfTGP (Meeting M).

## TG-Outbreaks: AI for outbreak detection

The Topic Drivers are Auss Abbood and Alexander Ullrich (Robert Koch Institute, Germany), Alexander Radunsky (ITGH, US) and Khahlil Louisy (Institute for Technology & Global Health, ITGH, US). At the Meeting O, it was agreed to merge the TG-Sanitation topics into TG-Outbreaks, however the documentation is still to be updated. At the last meeting (Meeting P), only a sub-topic update was provided. The latest documentation available is as follows:

TDD: [Q-018-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-018-A01.docx) (Same as Meeting K)
CfTGP: [Q-018-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-018-A02.docx) (Same as Meeting I)
Contributions: N/A

No updates were provided at this meeting.

## TG-Psy: Psychiatry

The Topic Driver is Nicholas Langer. The latest documentation available is as follows:

TDD: [Q-019-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-019-A01.docx) (Same as Meeting K) CfTGP: [Q-019-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-019-A02.docx) (Same as Meeting H)
Contributions: N/A

No updates were provided at this meeting.

## TG-Snake: Snakebite and snake identification

The Topic Driver is Rafael Ruiz. The latest documentation available is as follows:

TDD: [Q-020-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-020-A01.docx) (Same as Meeting I)
CfTGP: [Q-020-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-020-A02.docx) (Same as Meeting G)
Contributions: N/A

No updates were provided at this meeting.

## TG-Symptom: Symptom assessment

The Topic Drivers are Henry Hoffmann (ADA Health) and Martin Cansdale (Healthily, UK). The latest documentation available is as follows:

TDD: [Q-021-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-021-A01.docx) – [Q-021-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-021-A03.pptx)
CfTGP: [Q-021-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-021-A02.docx) (Same as Meeting N)
Contributions: N/A

Henry presented the progress report (including a general overview of the activity) in [A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-021-A03.pptx).

Work with the Audit Trial 2.0 project continues, which started reviewing the AI benchmarking interface. For test case storage and communication formats, FHIR compliant format was developed. The FHIR interface for communication with the symptom checker AIs is to be finalised. To integrate the TG-Symptom annotation tool with the OCI, the annotation tool to provide cases is converted in FHIR format.

The updated TDD in [Q-021-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-021-A01.docx) was uploaded to the Deliverables repository.

## TG-TB: Tuberculosis

The Topic Driver is Manjula Singh (ICMR, India). The latest documentation available is as follows:

TDD: [Q-022-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-022-A01.docx) (Same as Meeting M) – [Q-022-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-022-A03.pptx)
CfTGP: [Q-022-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-022-A02.docx) (Same as Meeting E)
Contributions: N/A

Manjula provided updates and Manika Sharma (Institute For Plasma Research) further detailed their AI tool using the slides in [A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025-A03.pptx). Simao suggested to examine DEL07.4 Clinical Evaluation to see aspects applicable to their AI tool. Eva will follow-up with the team.

No update was made to the TDD or CfTGP at this meeting.

## TG-Radiology: AI for Radiology

The Topic Driver is Darlington Ahiale Akogo (minoHealth AI Labs, Ghana). The latest documentation available is as follows:

TDD: [Q-023-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-023-A01.docx) (Same as Meeting P)CfTGP: [Q-023-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-023-A02.docx) (Same as Meeting H)
Contributions: [Q-034](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-034.docx)

No updates were provided at this meeting.

[***Q-034***](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-034.docx)***: The IAEA Coordinated Research Project (CRP) E33046: ELAISA: The potential of e-learning interventions for AI-assisted contouring skills in radiotherapy [IAEA]***

***Abstract***: In recent years, AI-algorithms, namely deep learning-based algorithms, have improved auto-segmentation drastically. It is believed that AI-tools lower variation and increase the accuracy and compliance of plans, which improves the chance of cure. AI-tools may also make care more cost effective by reducing the human capacity required, which is important in our overstretched health systems. A wide palette of commercial deep learning-based auto-segmentation solutions are emerging with the promise of leveraging the aforementioned benefits. The selection and contouring of target volumes and organs-at-risk (OARs) has become a key step in modern radiation oncology. Concepts and terms for definition of gross tumour volume, clinical target volume and OARs have been continuously evolving and have become widely disseminated and accepted by the European and international radiation oncology community. From previous research is clear that instructor-led guideline workshops are effective in reducing the inter-observer variation, however, it is unknown if and how the introduction the auto-segmentation modifies this causation.

Mateo Barbarino (IAEA) presented [Q-034](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-034.docx). Due to a technical connectivity issue in the meeting venue, detailed discussion could not be done, and it was agreed to make a decision at the next FG meeting in March 2023 how to fit this research area with a Topic Group.

## TG-Diabetes: Primary and secondary diabetes prediction

The Topic Driver is Andrés Valdivieso (Anastasia.ai, Chile) The latest documentation available is as follows:

TDD: [Q-024-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-024-A01.docx) (same as Meeting K)
CfTGP: [Q-024-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-024-A02.docx) (same as Meeting L, draft by the secretariat)
Contributions: N/A

No progress report was presented.

## TG-Endoscopy: AI for endoscopy

The Topic Driver is Jianrong Wu (Tencent Healthcare, China). The latest documentation available is as follows:

TDD: [Q-025-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025-A01.docx) – [Q-025-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025-A03.pptx)CfTGP: [Q-025-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025-A02.docx) (Same as Meeting J)
Contributions: N/A

Jianrong presented the updates of the TG work. Since Meeting P, TDD was rearranged to follow J-105, and updates were made on the content of annotation of segmentation, Annex A and Annex B. Eva suggested to have a follow-up call off-line together with Shan on how to better rearrange with the new Template.

The updated TDD in [Q-025-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025-A01.docx) is uploaded to the Deliverables repository.

## TG-MSK: AI for musculoskeletal medicine

The co-Topic Drivers are Peter Grinbergs (EQL, UK) and Yura Perov (Consultant, UK), both can be reached through a common e-mail address, tgmskorg@googlegroups.com. The latest documentation available is as follows:

TDD: [Q-026-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-026-A01.docx)
CfTGP: [[Q-026-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-026-A02.docx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-M-026-A02.docx)Contributions: N/A

Updated TDD and CfTGP were submitted, but no progress report was presented.

## TG-Fertility: AI for human reproduction and fertility

The co-Topic Drivers are Susanna Brandi and Eleonora Lippolis (Merck KGaA, Darmstadt, Germany). The latest documentation available is as follows:

TDD: [Q-027-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-027-A01.docx) (same as Meeting N)CfTGP: [[Q-027-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-027-A02.docx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-M-027-A02.docx) (same as Meeting M)
Contributions: N/A

No updates were provided at this meeting.

## TG-POC: AI for point-of care diagnostics

The Topic Driver is Nina Linder (University of Helsinki, Finland). The latest documentation available is as follows:

TDD: [Q-028-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-028-A01.docx) – [[Q-028-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-028-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-026-A03.pptx)
CfTGP: [Q-028-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-028-A02.docx) (Same as meeting M)
Contributions: N/A

Nina presented updates on the activities done by the group using the slides in [A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-028-A03.pptx). The group conducted proof of concept studies of a novel method that combines artificial intelligence (AI) and mobile digital microscopy for example for cell-based cervical cancer screening in resource-limited settings, in rural area in Kenya, with 700 women with HIV. The group is conducting validation studies for POC diagnostics for helminth infections and malaria in Tanzania and Kenya. Cervical screening will be expanded to HIV neg women in Kenya and Tanzania.

The updated TDD in [Q-028-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-028-A01.docx) is uploaded to the Deliverables repository.

## TG-TM: AI for traditional medicine

The meeting confirmed that the Topic Driver is Saketh Ram Thrigulla (Ministry of Ayush, Govt of India), instead of Mr Rajesh Kotecha.

The latest documentation available is as follows:

TDD: [Q-029-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-029-A01.docx) – [[Q-029-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-029-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-026-A03.pptx)
CfTGP: [Q-029-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-029-A02.docx)
Contributions: N/A

Saketh Ram presented the current status of the work of the group. Current gold standard in traditional medicine (TM) is whole system approach involving continuous interaction between the subject and the TM practitioner. TM relies on individualized expertise, and many subjective data utilized in TM diagnostics will be converted into objective data for AI training.

The initial TDD in [Q-029-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-029-A01.docx) was uploaded to the Deliverables repository.

1. The group confirmed that the driver for the **TG on traditional medicine** (TG-TM) will be Saketh Ram Thrigulla (Ministry of Ayush, Government of India).

# Proposals for new topic areas

None at this meeting.

# Review / reconfirmation of previous output documents

It was agreed to refresh the following templates:

* [J-105](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-J-105.docx): TDD Template à [Q-105](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-105.docx)
* [J-103](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-J-103.docx): CfTGP template à [Q-103](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-103.docx)

The following documents are reconfirmed without any updates:

* [F-103](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-F-103.docx): Updated FG-AI4H data acceptance and handling policy
* [C-104](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-C-104.docx): Thematic classification scheme
* [F-105](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-F-105.docx): ToRs for the WG-Experts and call for experts
* [F-106](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-F-106.docx): Guidelines on FG-AI4H online collaboration tools
* [M-107](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-M-107.docx): Updated FG-AI4H Onboarding document
* [FG-AI4H Whitepaper](https://www.itu.int/en/ITU-T/focusgroups/ai4h/Documents/FG-AI4H_Whitepaper.pdf) ([K-002](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-K-002.docx))

The call for proposals in [P-102](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-102.docx) will be updated and uploaded to the repository as [Q-102](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-102.docx), for proposals at Meeting R.

1. It was agreed to update the TDD template as found in [Q-105](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-105.docx) and the CfTGP in [Q-103](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-103.docx).

# Working methods

No changes were agreed to the working methods.

NOTE – [Annex D](file:///C%3A%5CUsers%5Cbanno%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CINetCache%5CContent.Outlook%5C5C9RKHVL%5CFGAI4H-O-101-Draft-v3.docx#AnnexD) hereinafter contains the agreed procedures for online approval of document as well as for organizing e-meetings.

# Outcomes of this meeting

## WG updates

There were no changes to the FG-AI4H leadership.

## TG updates

New TG/sub-TG:

* There were no updates to TG/sub-TG at this meeting.

Updates to leadership / scope of existing TGs:

* Ivy Lee (American Academy of Dermatology, USA) is now a co-driver of **TG-Derma**, together with Harsha Jayakody (Flash Health, Sri Lanka)
* The group confirmed that the driver for the **TG on traditional medicine** (TG-TM) will be Saketh Ram Thrigulla (Ministry of Ayush, Government of India).

## Output liaison statements

No output LSs were prepared at this meeting.

## Output documents

The following updated **output documents** were agreed:

* [Q-102](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-102.docx): Updated call for proposals: use cases, benchmarking, and data
* [Q-103](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-103.docx): Updated CfTGP template
* [Q-105](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-105.docx): Updated TDD template
* [Q-200](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-200.docx): Updated list of FG-AI4H deliverables

## Deliverables and parent group reporting

No deliverables were approved at this meeting. All available deliverables were reviewed, their latest version is found in the [FG-AI4H collaboration site](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/SitePages/Deliverables.aspx).

# Future work

## Schedule of future FG meetings and workshops

The schedule of meetings was reviewed; Table 2 has the updated information, see also [Q-003](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-003.docx).

In view of the COVID-19 pandemic, physical meetings after Brasilia were transformed into virtual meetings, until the last Meeting O in Berlin. Future meetings are expected to be physical meetings with remote participation. The Focus Group will continue to organize online webinars under the umbrella of AI for Good to highlight promises and perils around the use of AI-based methods in healthcare.

Table 2 – Schedule of future FG meetings (as of 2022-12-09)

| Meeting | Date | Venue | Notes |
| --- | --- | --- | --- |
| R | 21-24 March 2022 | Cambridge, MA, USA | MIT and Harvard University |
| S | July 2023 | Geneva | Collocated with AI for Good |
| T | September 2023 | TBD |  |

The following is a list of potential future meeting locations:

|  |  |  |
| --- | --- | --- |
| Asia:1. Bangladesh
2. Philippines
3. Singapore
4. South Korea
5. Thailand

Middle-East1. Oman
2. UAE
 | Africa1. South Africa
2. Uganda
3. Kenya
4. Ghana
5. Rwanda
6. Nigeria

Europe1. Sweden
 | Americas1. Canada
2. US
3. Chile
 |

## Work plan and timeline

Update drafts of the deliverables in Table 1 (see §‎11) are expected to be available by two weeks before the next FG-AI4H plenary meeting (to be announced).

A number of mature Deliverables are expected to undergo the online approval process prior to Meeting R.

## Interim activities (online)

TGs and WGs will continue their activities between this and the next FG meeting. Communications on planned e-meetings will be announced in the TG-specific and/or general mailing lists (see [Annex D](file:///C%3A%5CUsers%5Cbanno%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CINetCache%5CContent.Outlook%5C5C9RKHVL%5CFGAI4H-O-101-Draft-v3.docx#AnnexD)) with at least one-week notice.

# Promotion and outreach

The meeting was reminded that a series of webinars took place. The idea is that the webinars on horizontal and vertical themes of the Deliverables take place every two weeks and are organized within the context of the AI for Good online events. The whole series of the Discovery series on AI and health can be seen here: [https://aiforgood.itu.int/search-result-programme/?keyword=&‌category=346&event-venue=&enddate=&startdate=Select+year](https://aiforgood.itu.int/search-result-programme/?keyword=&category=346&event-venue=&enddate=&startdate=Select+year).

# A.O.B.

None.

# Closing

The FG-AI4H chairman thanked the hosts, in particular her Excellency Ms Minette Libom Li Likeng, Franck Verzefé and Paul Guimezap, for the excellent facilities and arrangements that made the meeting very enjoyable and productive. He also thanked all participants for having joined the meeting, in particular those coming from far to join the meeting, as well as those who submitted contributions and engaged in the discussions. He noted the time and effort put in by Markus Wenzel and Eva Weicken for structuring the meeting. The chairman also thanked the vice-chairs, WG chairs/co-/vice-chairs, and topic drivers who joined the discussions. Finally, he expressed his appreciation for the essential work performed by the secretariat, in particular Simão Campos, Hiba Tahawi, Bastiaan Quast and Kaoru Mizuno. He concluded noting that the participants have been the core of something that will grow much bigger and encouraged all to work towards that goal.

The meeting was closed on Thu 8 December 2022 around 1900 hours (Douala time).

Annex A:
Agenda

|  |  |  |
| --- | --- | --- |
|  |  | Related Documents |
| 1 | Opening | [Q-002](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-002.pptx) (FG-AI4H Introduction) |
| 2 | Approval of agenda | [Q-001-R1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-001-R01.docx) (Agenda); Initial timing: [link](https://docs.google.com/spreadsheets/d/1wQKHbZpKEZRfb-5K_T8XAeqnvdqSLKGRM_rJCXW6gcM) |
| 3 | Documentation and allocation | [Q-001-R1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-001-R01.docx) (Allocation); Annex B (Documentation)  |
| 4 | IPR | Annex A |
| 5 | Management updates |  |
|  | Vice-chairs | * No updates
 |
|  | WGs | * No updates
 |
|  | TGs | * No updates
 |
| 6 | Approval of Meeting N outcomes and updates | [P-101](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-101.docx): Meeting Report[P-102](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-102.docx): Updated call for proposals: use cases, benchmarking, and data[P-200](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-200.docx): Updated list of deliverables[P-201](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-201.docx): DEL 0.1 Common unified terms in artificial intelligence for health[P-202](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-202.docx): DEL2 Overview of regulatory considerations on artificial intelligence for health[P-203](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-203.docx): DEL2.2 Good practices for health applications of machine learning: Considerations for manufacturers and regulators |
|  | Interim activities:  | [Q-040](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-040.docx): Workshop programme and presentations (Douala, 6 Dec 2022) |
| 7 | Review of incoming LSs |  |
|  | Communication received from IEC TC62 "Medical equipment, software, and systems" (in reply to FG-AI4H-LS7 " LS on discussion of potential for future collaboration", 11 January 2022) | [FGAI4H-Q-035](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-035.docx): IEC TC62à *to Discuss* |
|  | LS on announcement of new Supplement 72 to ITU-T Y.3000-series (ex Y.sup.aisr) "Artificial Intelligence standardization roadmap" | [FGAI4H-Q-036](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-036.docx) + [A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-036-A01.docx) à *to Note* |
|  | LS on invitation to provide inputs to the roadmap of AI and IoT activities for digital agriculture [from FG-AI4A] | [FGAI4H-Q-038](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-038.docx): FG-AI4A to various groupsà *to Note* |
| 8 | Information on AI-related activities |  |
| 9 | Horizontal and strategic topics | [Q-031](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-031.docx): FUTURE-AI: International guidelines for trustworthy and deployable AI in healthcare [University of Barcelona] |
| 10 | Working Group updates |  |
| a | Data and AI solution assessment methods (WG-DAISAM) [Pat Baird; Luis Oala] |  |
| b | Data and AI solution handling (WG-DASH) [Marc Lecoultre; Ferath Kherif]  |  |
|  | Ethics (WG-Ethics) [Andreas Reis] |   |
|  | Operations (WG-O) [Markus Wenzel; Eva Weicken] |  |
|  | Regulatory considerations (WG-RC) [Shada Alsalamah] | (See agenda item 12.e) |
| f | Clinical Evaluation (WG-CE) [Naomi Lee; Shubhanan Upadhyay; Eva Weicken] |  |
|  | Collaborations and Outreach (WG-CO) [Andrew Farlow] |  |
|  | AI and other digital technologies for COVID-19 health emergency (AHG-DT4HE) [Shan Xu, Ana Rivière-Cinnamond] |  |
|  |  |  |
| 11 | Open Code Project [Marc Lecoultre] | [Q-045](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-045.pptx): Overview[Q-039](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-039.pptx): Annotation package [HPI] |
| 12 | FG-AI4H deliverables | [Q-005](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-005.docx): Updated list of FG-AI4H deliverables (as of 2022-12-06)[Q-004](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-004.docx) + [A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-004-A01.docx): Publication status of Focus Group Deliverables |
| a | New deliverables | – |
| b | [DEL0](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL00.docx): Overview of deliverables |  |
|  | [DEL0.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL00_1.docx): FGAI4H terms and definitions |  |
|  | [DEL1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL01.docx): AI4H ethics considerations |  |
|  | [DEL2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL02.docx): AI4H regulatory best practices |  |
|  | [DEL2.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL02_1.docx): Mapping of IMDRF essential principles to AI for health software |  |
|  | [DEL2.2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL02_2.docx): Good practices for health applications of machine learning: Considerations for manufacturers and regulators |  |
|  | [DEL3](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL03.docx): AI4H requirements specifications |  |
|  | [DEL4](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL04.docx): AI software life cycle specification |  |
|  | [DEL5](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05.docx): Data specification |  |
|  | [DEL5.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_1.docx): Data requirements |  |
|  | [DEL5.2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_2.docx): Data acquisition |  |
|  | [DEL5.3](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_3.docx): Data annotation specification |  |
|  | [DEL5.4](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_4.docx): Training and test data specification |  |
|  | [DEL5.5](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_5.docx): Data handling |  |
|  | [DEL5.6](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL05_6.docx): Data sharing practices |  |
|  | [DEL6](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL06.docx): AI training best practices specification |  |
|  | [DEL7](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07.docx): AI for health evaluation considerations | [Q-030](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-030.docx): DEL07 Update [Editors] |
|  | [DEL7.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07_1.docx): AI4H evaluation process description |  |
|  | [DEL7.2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07_2.docx): AI technical test specification |  |
|  | [DEL7.3](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07_3.docx): Data and artificial intelligence assessment methods (DAISAM) reference |  |
|  | [DEL7.4](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07_4.docx): Clinical evaluation of AI for health | [Q-033](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-033.docx): Updated DEL7.4 [Editors] |
|  | [DEL7.5](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL07_5.docx): Assessment platform |  |
|  | DEL8: AI4H scale-up and adoption |  |
|  | [DEL9](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL09.docx): AI4H applications and platforms |  |
|  | [DEL9.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL09_1.docx): Mobile applications (Manjeet), [DEL9.2](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL09_2.docx): Cloud-based AI applications |  |
|  | [DEL10.0](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/Deliverables/DEL10_0.docx): AI4H use cases: Topic Description Documents | [Q-032](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-032.docx): DEL10 Update [Editor] |
| 13 | Updates to TGs and new proposals |  |
|  | Template updates: TDD, CfTGP | [J-105](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-J-105.docx): TDD template (proposal to refresh)[J-103](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-J-103.docx): CfTGP template (proposal to refresh) |
| b | TG-Cardio (Cardiovascular Risk Prediction) [Benjamin Muthambi] | TDD: [Q-006-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-006-A01.docx) - [[Q-006-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-006-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-H-006-A03.pptx)CfTGP: [[Q-006-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-006-A02.docx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-006-A02.docx)Contributions:  |
| c | TG-Derma (Dermatology) [Harsha Jayakody, Ivy Lee] | TDD: [Q-007-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-007-A01.docx) - [Q-007-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-007-A03.pptx)CfTGP: [Q-007-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-007-A02.docx)Contributions: |
|  | TG-Bacteria (Diagnoses of bacterial infection and anti-microbial resistance - AMR)[Nada Malou] | TDD: [Q-008-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-008-A01.docx) - [Q-008-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-008-A03.pptx)CfTGP: [Q-008-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-008-A02.docx)Contributions:  |
|  | TG-DiagnosticCT (Volumetric chest computed tomography) [Kuan Chen] | TDD: [Q-009-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-009-A01.docx) - [[Q-009-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-009-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-009-A03.pptx)CfTGP: [Q-009-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-009-A02.docx) Contributions:  |
|  | TG-Dental (Dental diagnostics and digital dentistry)[Falk Schwendicke, Joachim Krois] | TDD: [Q-010-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010-A01.docx) - [[Q-010-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-010-A03.pptx)CfTGP: [[Q-010-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010-A02.docx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-H-010-A02.docx)Contributions:  |
|  | TG-FakeMed: AI-based detection of falsified medicine[Franck Verzefé] | TDD: [Q-011-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-011-A01.docx) - [[Q-011-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-011-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-H-011-A03.pptx)CfTGP: [[Q-011-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-011-A02.docx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-H-011-A02.docx)Contributions:  |
|  | TG-Falls (Falls among the elderly) [Pierpaolo Palumbo for Inês Sousa] | TDD: [Q-012-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-012-A01.docx)- [[Q-012-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-012-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-012-A03.pptx)CfTGP: [[Q-012-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-012-A02.docx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-012-A02.docx)Contributions: [Q-037](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-037.docx) Smart GAIT System Requirements for Preventing Falls Among the Elderly [Nanfang College, China] |
|  | TG-Histo (Histopathology) [Frederick Klauschen] | TDD: [Q-013-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-013-A01.docx) - [Q-013-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-013-A03.pptx) CfTGP: [Q-013-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-013-A02.docx) Contributions: |
|  | TG-Malaria: Malaria detection [Rose Nakasi] | TDD: [Q-014-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-014-A01.docx) - [[Q-014-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-014-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-H-014-A03.pptx) CfTGP: [[Q-014-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-014-A02.docx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-H-014-A02.docx)Contributions:  |
|  | TG-MCH: Maternal and child health [Raghu Dharmaraju, Alexandre Chiavegatto Filho] | TDD: [Q-015-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-015-A01.docx) - [Q-015-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-015-A03.pptx) CfTGP: [Q-015-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-015-A02.docx%22%20%5Ct%20%22_blank) Contributions: |
|  | TG-Neuro: Neurological disorders [Marc Lecoultre] | TDD: [Q-016-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-016-A01.docx) - [[Q-016-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-016-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-016-A03.pptx)CfTGP: [[Q-016-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-016-A02.docx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-016-A02.docx)Contributions: |
|  | TG-Ophthalmo (Ophthalmology) [Arun Shroff] | TDD: [Q-017-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-017-A01.docx) - [Q-017-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-017-A03.pptx) CfTGP: [[Q-017-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-017-A02.docx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-017-A02.docx)Contributions:  |
|  | TG-Outbreaks (AI for Outbreak Detection) [Auss Abbood, Alexander Ullrich,Alexander Radunsky, Khahlil Louisy] | TDD: [Q-018-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-018-A01.docx) - [Q-018-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-018-A03.pptx)CfTGP: [Q-018-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-018-A02.docx)Contributions: |
|  | TG-Psy (Psychiatry) [Nicholas Langer] | TDD: [Q-019-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-019-A01.docx) - [[Q-019-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-019-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-019-A03.pptx)CfTGP: [Q-019-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-019-A02.docx) Contributions:  |
|  | TG-Snake (Snakebite and snake identification) [Rafael Ruiz] | TDD: [Q-020-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-020-A01.docx) - [[Q-020-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-020-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-020-A03.pptx)CfTGP: [Q-020-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-020-A02.docx)Contributions: |
|  | TG-Symptom (Symptom assessment) [Henry Hoffmann, Martin Cansdale] | TDD: [Q-021-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-021-A01.docx) - [[Q-021-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-021-A03.pptx%22%20%5Ct%20%22_blank)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-H-021-A03.pptx) CfTGP: [[Q-022-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-022-A02.docx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-H-021-A02.docx)Contributions: |
|  | TG-TB (Tuberculosis) [Manjula Singh] | TDD: [Q-022-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-022-A01.docx) - [[Q-022-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-022-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-022-A03.pptx)CfTGP: [Q-022-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-022-A02.docx%22%20%5Ct%20%22_blank) Contributions: |
|  | TG-Radiology (Radiology) [Darlington Ahiale Akogo] | TDD: [Q-023-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-023-A01.docx) - [Q-023-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-023-A03.pptx) CfTGP: [Q-023-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-023-A02.docx) Contributions: [Q-034](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-034.docx): The IAEA Coordinated Research Project (CRP) E33046: ELAISA: The potential of e-learning interventions for AI-assisted contouring skills in radiotherapy [IAEA] |
|  | TG-Diabetes[Andrés Valdivieso] | TDD: [Q-024-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-024-A01.docx) - [Q-024-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-024-A03.pptx)CfTGP: [[Q-024-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-024-A02.docx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-024-A02.docx)Contributions: |
|  | TG-Endoscopy[Jianrong Wu] | TDD: [Q-025-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025-A01.docx) - [[Q-025-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-025-A03.pptx)CfTGP: [[Q-025-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025-A02.docx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-025-A02.docx)Contributions: |
|  | TG-MSK (AI for Musculoskeletal medicine)[Peter Grinbergs, Yura Perov] | TDD: [Q-026-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-026-A01.docx) - [[Q-026-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-026-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-026-A03.pptx)CfTGP: [Q-026-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-026-A02.docx) Contributions: |
|  | TG-Fertility (AI for human reproduction and fertility)[Susanna Brandi, Eleonora Lippolis]  | TDD: [Q-027-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-027-A01.docx) - [[Q-027-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-027-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-026-A03.pptx)CfTGP: [Q-027-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-027-A02.docx) Contributions: |
|  | TG-POC (Topic Group on AI for point-of care diagnostics)[Nina Linder] | TDD: [Q-028-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-028-A01.docx) - [[Q-028-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-028-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-026-A03.pptx) CfTGP: [Q-028-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-028-A02.docx) Contributions: |
|  | TG-TM (AI for traditional medicine)[Saketh Ram Thrigulla] | TDD: [Q-029-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-029-A01.docx) - [[Q-029-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-029-A03.pptx)](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-026-A03.pptx) CfTGP: [Q-029-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-029-A02.docx) Contributions: |
| 14 | Proposals for new topic areas |  |
|  | None. |  |
|  |  |  |
| 15 | Review / reconfirmation of previous output documents | [F-103](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-F-103.docx): Updated FG-AI4H data acceptance and handling policy[C-104](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-C-104.docx): Thematic classification scheme[F-105](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-F-105.docx): ToRs for the WG-Experts and call for experts[F-106](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-F-106.docx): Guidelines on FG-AI4H online collaboration tools[M-107](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-M-107.docx): Updated FG-AI4H Onboarding document[FG-AI4H Whitepaper](https://staging.itu.int/en/ITU-T/focusgroups/ai4h/Documents/FG-AI4H_Whitepaper.pdf) [[K-002](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-K-002.docx)] |
| 16 | Outcomes of this meeting | a) Outgoing liaison statementsb) Structure updatesc) Call for proposals – Q-102 (Updated CfP)d) Output documents- [Q-105](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-105.docx): TDD template- [Q-103](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-103.docx): CfTGP template: - …e) Updated list of planned deliverables[[Q-005](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-005.docx)à Q-200] |
| 17 | Future work |  |
|  | Schedule of future FG meetings and workshops | [Q-003](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-003.docx) |
|  | Format of next meeting |  |
|  | Work plan and timeline- Deliverables |  |
|  | Interim activities (online) | Webinars within AI4G platformPre-FG meeting TG-specific workshops |
| 18 | Promotion and outreach | ITU [AI4G Health Track Webinars](https://aiforgood.itu.int/search-result-programme/?keyword=&category=346&event-venue=&enddate=&startdate=Select+year) |
|  | Promotional activities |  |
|  | Press communication |  |
|  | Funding and partnerships |  |
| 19 | A.O.B. |  |
| 20 | Closing |  |

Annex B:
Documentation

| Name | Title | Source |
| --- | --- | --- |
| [FGAI4H-Q-001-R01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-001-R01.docx) | Agenda and documentation of the FG-AI4H meeting (Douala, 6-9 December 2022) | Chairman FG-AI4H |
| [FGAI4H-Q-002](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-002.pptx) | Introduction to ITU/WHO Focus Group on AI for Health | Chairman FG-AI4H |
| [FGAI4H-Q-003](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-003.docx) | Schedule of future FG meetings (as of 2022-12-09) | FG-AI4H Chairman |
| [FGAI4H-Q-004](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-004.docx) | Publication of Focus Group Deliverables – follow-up (Douala, 6-9 December 2022) | TSB |
| [FGAI4H-Q-004-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-004-A01.xlsx) | Publication of Focus Group Deliverables – follow-up: Att.1 - Input data and tables | TSB |
| [FGAI4H-Q-005](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-005.docx) | List of FG-AI4H deliverables (as of 2022-12-06) | TSB |
| [FGAI4H-Q-006](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-006.docx) | Updates for Cardiovascular disease risk prediction (TG-Cardio) | TG-Cardio Topic Driver |
| [FGAI4H-Q-006-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-006-A01.docx) | Att.1 – TDD update (TG-Cardio) [same as Meeting N] | TG-Cardio Topic Driver |
| [FGAI4H-Q-006-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-006-A02.docx) | Att.2 - CfTGP (TG-Cardio) [same as Meeting H] | TG-Cardio Topic Driver |
| [FGAI4H-Q-007](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-007.docx) | Updates for Dermatology (TG-Derma) | TG-Derma Topic Driver |
| [FGAI4H-Q-007-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-007-A01.docx) | Att.1 - TDD update (TG-Derma) | TG-Derma Topic Driver |
| [FGAI4H-Q-007-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-007-A02.docx) | Att.2 – CfTGP (TG-Derma) | TG-Derma Topic Driver |
| [FGAI4H-Q-007-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-007-A03.pptx) | Att.3 – Presentation (TG-Derma) | TG-Derma Topic Driver |
| [FGAI4H-Q-008](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-008.docx) | Updates for Diagnosis of bacterial infection and anti-microbial resistance (TG-Bacteria) | TG-Bacteria Topic Driver |
| [FGAI4H-Q-008-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-008-A01.docx) | Att.1 – TDD update (TG-Bacteria) [same as Meeting L] | TG-Bacteria Topic Driver |
| [FGAI4H-Q-009](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-009.docx) | Updates for Volumetric chest CT (TG-DiagnosticCT) | TG-DiagnosticCT Topic Driver |
| [FGAI4H-Q-009-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-009-A01.docx) | Att.1 – TDD update (TG-DiagnosticCT) | TG-DiagnosticCT Topic Driver |
| [FGAI4H-Q-009-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-009-A02.docx) | Att.2 – CfTGP update (TG-DiagnosticCT) [same as Meeting H] | TG-DiagnosticCT Topic Driver |
| [FGAI4H-Q-010](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010.docx) | Updates for Dental diagnostics and digital dentistry (TG-Dental) | TG-Dental Topic Driver |
| [FGAI4H-Q-010-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010-A01.docx) | Att.1 – TDD update (TG-Dental) | TG-Dental Topic Driver |
| [FGAI4H-Q-010-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010-A02.docx) | Att.2 – CfTGP (TG-Dental) | TG-Dental Topic Driver |
| [FGAI4H-Q-010-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-010-A03.pptx) | Att.3 - Presentation (TG-Dental) | TG-Dental Topic Driver |
| [FGAI4H-Q-011](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-011.docx) | Updates for AI-based detection of falsified medicine (TG-FakeMed) | TG-FakeMed Topic Driver |
| [FGAI4H-Q-011-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-011-A01.docx) | Att.1 – TDD update (TG-FakeMed) [same as Meeting J] | TG-FakeMed Topic Driver |
| [FGAI4H-Q-011-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-011-A02.docx) | Att.2 – CfTGP (TG-FakeMed) [same as Meeting H] | TG-FakeMed Topic Driver |
| [FGAI4H-Q-011-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-011-A03.pptx) | Att.3 – Presentation (TG-FakeMed) | TG-FakeMed Topic Driver |
| [FGAI4H-Q-012](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-012.docx) | Updates for Falls among the elderly (TG-Falls) | TG-Falls Topic Driver |
| [FGAI4H-Q-012-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-012-A01.docx) | Att.1 – TDD update (TG-Falls) | TG-Falls Topic Driver |
| [FGAI4H-Q-012-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-012-A02.docx) | Att.2 – CfTGP (TG-Falls) [same as Meeting H] | TG-Falls Topic Driver |
| [FGAI4H-Q-012-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-012-A03.pptx) | Att.3 – Presentation (TG-Falls) | TG-Falls Topic Driver |
| [FGAI4H-Q-013](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-013.docx) | Updates for Histopathology (TG-Histo) | TG-Histo Topic Driver |
| [FGAI4H-Q-013-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-013-A01.docx) | Att.1 – TDD update (TG-Histo) [same as Meeting I] | TG-Histo Topic Driver |
| [FGAI4H-Q-013-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-013-A02.docx) | Att.2 – CfTGP (TG-Histo) [same as Meeting E] | TG-Histo Topic Driver |
| [FGAI4H-Q-014](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-014.docx) | Updates for Malaria detection (TG-Malaria) | TG-Malaria Topic Driver |
| [FGAI4H-Q-014-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-014-A01.docx) | Att.1 – TDD update (TG-Malaria) [same as Meeting N] | TG-Malaria Topic Driver |
| [FGAI4H-Q-014-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-014-A02.docx) | Att.2 – CfTGP (TG-Malaria) [same as Meeting L] | TG-Malaria Topic driver |
| [FGAI4H-Q-014-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-014-A03.pptx) | Att.3 – Presentation (TG-Malaria) | TG-Malaria Topic Driver |
| [FGAI4H-Q-015](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-015.docx) | Updates for Maternal and child health (TG-MCH) | TG-MCH Topic Driver |
| [FGAI4H-Q-015-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-015-A01.docx) | Att.1 – TDD update (TG-MCH) | TG-MCH Topic Driver |
| [FGAI4H-Q-015-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-015-A02.docx) | Att.2 – CfTGP (TG-MCH) [same as Meeting H] | TG-MCH Topic Driver |
| [FGAI4H-Q-015-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-015-A03.pptx) | Att.3 – Presentation (TG-MCH) | TG-MCH Topic Driver |
| [FGAI4H-Q-016](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-016.docx) | Updates for Neurological disorders (TG-Neuro) | TG-Neuro Topic Driver |
| [FGAI4H-Q-016-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-016-A01.docx) | Att.1 – TDD update (TG-Neuro) [same as Meeting L] | TG-Neuro Topic Driver |
| [FGAI4H-Q-016-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-016-A02.docx) | Att.2 – CfTGP Update (TG-Neuro) [same as Meeting E] | TG-Neuro Topic Driver |
| [FGAI4H-Q-016-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-016-A03.pdf) | Att.3 – Presentation (TG-Neuro) | TG-Neuro Topic Driver |
| [FGAI4H-Q-017](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-017.docx) | Updates for Ophthalmology (TG-Ophthalmo) | TG-Ophthalmo Topic Driver |
| [FGAI4H-Q-017-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-017-A01.docx) | Att.1 – TDD update (TG-Ophthalmo) | TG-Ophthalmo Topic Driver |
| [FGAI4H-Q-017-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-017-A02.docx) | Att.2 – CfTGP (TG-Ophthalmo) [same as Meeting M] | TG-Ophthalmo Topic Driver |
| [FGAI4H-Q-018](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-018.docx) | Updates for Outbreak detection (TG-Outbreaks) | TG-Outbreaks Topic Driver |
| [FGAI4H-Q-018-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-018-A01.docx) | Att.1 – TDD update (TG-Outbreaks) [same as Meeting K] | TG-Outbreaks Topic Driver |
| [FGAI4H-Q-018-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-018-A02.docx) | Att.2 – CfTGP (TG-Outbreaks) [same as Meeting I] | TG-Outbreaks Topic Driver |
| [FGAI4H-Q-019](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-019.docx) | Updates for Psychiatry (TG-Psy) | TG-Psy Topic Driver |
| [FGAI4H-Q-019-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-019-A01.docx) | Att.1 – TDD update (TG-Psy) [same as Meeting K] | TG-Psy Topic Driver |
| [FGAI4H-Q-019-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-019-A02.docx) | Att.2 – CfTGP Update (TG-Psy) [same as Meeting H] | TG-Psy Topic Driver |
| [FGAI4H-Q-020](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-020.docx) | Updates for Snakebite and snake identification (TG-Snake) | TG-Snake Topic Driver |
| [FGAI4H-Q-020-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-020-A01.docx) | Att.1 - TDD update (TG-Snake) [same as Meeting I] | TG-Snake Topic Driver |
| [FGAI4H-Q-020-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-020-A02.docx) | Att.2 – CfTGP update (TG-Snake) [same as Meeting G] | TG-Snake Topic Driver |
| [FGAI4H-Q-021](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-021.docx) | Updates for Symptom assessment (TG-Symptom) | TG-Symptom Topic Driver |
| [FGAI4H-Q-021-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-021-A01.docx) | Att.1 – TDD update (TG-Symptom) | TG-Symptom Topic Driver |
| [FGAI4H-Q-021-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-021-A02.docx) | Att.2 – CfTGP (TG-Symptom) [same as Meeting N] | TG-Symptom Topic Driver |
| [FGAI4H-Q-022](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-022.docx) | Updates for Tuberculosis (TG-TB) | TG-TB Topic Driver |
| [FGAI4H-Q-022-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-022-A01.docx) | Att.1 – TDD update (TG-TB) [same as Meeting M] | TG-TB Topic Driver |
| [FGAI4H-Q-022-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-022-A02.docx) | Att.2 – CfTGP (TG-TB) [same as Meeting E] | TG-TB Topic Driver |
| [FGAI4H-Q-022-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-022-A03.pptx) | Att.3 – Presentation (TG-TB) | TG-TB Topic Driver |
| [FGAI4H-Q-023](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-023.docx) | Updates for AI for radiology (TG-Radiology) | TG-Radiology Topic Driver |
| [FGAI4H-Q-023-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-023-A01.docx) | Att.1 – TDD update (TG-Radiology) | TG-Radiology Topic Driver |
| [FGAI4H-Q-023-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-023-A02.docx) | Att.2 - CfTGP update (TG-Radiology) [same as Meeting H] | TG-Radiology Topic Driver |
| [FGAI4H-Q-024](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-024.docx) | Updates for primary and secondary diabetes prediction (TG-Diabetes) | TG-Diabetes Topic Driver |
| [FGAI4H-Q-024-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-024-A01.docx) | Att.1 – TDD update (TG-Diabetes) [same as Meeting K] | TG-Diabetes Topic Driver |
| [FGAI4H-Q-024-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-024-A02.docx) | Att.2 – CfTGP (TG-Diabetes) [same as Meeting L] | TG-Diabetes Topic Driver |
| [FGAI4H-Q-025](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025.docx) | Updates for AI for endoscopy (TG-Endoscopy) | TG-Endoscopy Topic Driver |
| [FGAI4H-Q-025-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025-A01.docx) | Att.1 – TDD update (TG-Endoscopy) | TG-Endoscopy Topic Driver |
| [FGAI4H-Q-025-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025-A02.docx) | Att.2 – CfTGP (TG-Endoscopy) [same as Meeting J] | TG-Endoscopy Topic Driver |
| [FGAI4H-Q-025-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-025-A03.pptx) | Att.3 – Presentation (TG-Endoscopy) | TG-Endoscopy Topic Driver |
| [FGAI4H-Q-026](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-026.docx) | Updates for AI for Musculoskeletal medicine (TG-MSK) | TG-MSK Topic Driver |
| [FGAI4H-Q-026-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-026-A01.docx) | Att.1 – TDD update (TG-MSK) | TG-MSK Topic Drivers |
| [FGAI4H-Q-026-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-026-A02.docx) | Att.2 – CfTGP (TG-MSK) | TG-MSK Topic Drivers |
| [FGAI4H-Q-027](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-027.docx) | Updates for AI for human reproduction and fertility (TG-Fertility) | TG-Fertility Topic Driver |
| [FGAI4H-Q-027-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-027-A01.docx) | Att.1 – TDD update (TG-Fertility) [same as Meeting N] | TG-Fertility Topic Drivers |
| [FGAI4H-Q-027-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-027-A02.docx) | Att.2 – CfTGP (TG-Fertility) [same as Meeting M] | TG-Fertility Topic Drivers |
| [FGAI4H-Q-028](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-028.docx) | Updates for Topic Group on AI for point-of care diagnostics (TG-POC) | TG-POC Topic Driver |
| [FGAI4H-Q-028-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-028-A01.docx) | Att.1 – TDD update (TG-POC) | TG-POC Topic Driver |
| [FGAI4H-Q-028-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-028-A02.docx) | Att.2 – CfTGP (TG-POC) [same as Meeting M] | TG-POC Topic Driver |
| [FGAI4H-Q-028-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-028-A03.pdf) | Att.3 - Presentation (TG-PoC) | TG-PoC Topic Driver |
| [FGAI4H-Q-029](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-029.docx) | Initial docs: Topic Group on AI for traditional medicine (TG-TM) | TG-TM Topic Driver |
| [FGAI4H-Q-029-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-029-A01.docx) | Att.1 – TDD update (TG-TM) | TG-TM Topic Driver |
| [FGAI4H-Q-029-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-029-A02.docx) | Att.2 – CfTGP (TG-TM) | TG-TM Topic Driver |
| [FGAI4H-Q-029-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-029-A03.pptx) | Att.3 – Presentation (TG-TM) | TG-TM Topic Driver |
| [FGAI4H-Q-030-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-030-A01.pptx) | Att.1 - Updated DEL07: AI for Health Evaluation Considerations - Presentation | Editors DEL07 |
| [FGAI4H-Q-030-R01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-030-R01.docx) | DEL07 Update: AI for health evaluation considerations | Editors DEL07 |
| [FGAI4H-Q-031](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-031.docx) | FUTURE-AI: International guidelines for trustworthy and deployable AI in healthcare | University of Barcelona |
| [FGAI4H-Q-031-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-031-A01.pdf) | Att.1 - FUTURE-AI: International guidelines for trustworthy and deployable AI in healthcare - Presentation | University of Barcelona |
| [FGAI4H-Q-032](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-032.docx) | DEL10 Update: AI4H use cases: Topic Description Documents | Editors DEL10 |
| [FGAI4H-Q-032-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-032-A01.pptx) | Att.1 - Presentation - DEL10 Update: AI4H use cases: Topic Description Documents  | Editors DEL10 |
| [FGAI4H-Q-033](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-033.docx) | DEL7.4 Update: Clinical evaluation of AI for health | Editors DEL7.4 |
| [FGAI4H-Q-033-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-033-A01.pptx) | Att.1 - Presentation - DEL7.4 Update: Clinical evaluation of AI for health | Editors DEL7.4 |
| [FGAI4H-Q-034](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-034.docx) | The IAEA Coordinated Research Project (CRP) E33046: ELAISA: The potential of E-Learning interventions for AI-assisted contouring Skills in radiotherapy | IAEA |
| [FGAI4H-Q-035](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-035.docx) | Communication received from IEC TC62 "Medical equipment, software, and systems" (in reply to FG-AI4H-LS7 "LS on discussion of potential for future collaboration", 11 January 2022) | FG-AI4H Chairman |
| [FGAI4H-Q-035-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-035-A01.docx) | Att.1 - Liaison Request Form for TC62 | IEC TC62 |
| [FGAI4H-Q-036](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-036.docx) | LS on announcement of new Supplement 72 to ITU-T Y.3000-series (formerly ITU-T Y.sup.aisr) "Artificial Intelligence standardization roadmap" [from ITU-T SG13] | ITU-T SG13 |
| [FGAI4H-Q-036-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-036-A01.docx) | Att.1 - LS on announcement of new Supplement 72 to ITU-T Y.3000-series (formerly ITU-T Y.sup.aisr) "Artificial Intelligence standardization roadmap" [from ITU-T SG13] | ITU-T SG13 |
| [FGAI4H-Q-037](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-037.docx) | Smart GAIT System Requirements for Preventing Falls Among the Elderly | Nanfang College-Guangzhou |
| [FGAI4H-Q-038](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-038.docx) | LS on invitation to provide inputs to the roadmap of AI and IoT activities for digital agriculture [from FG-AI4A] | FG-AI4A |
| [FGAI4H-Q-039](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-039.pptx) | OCI update - AI-supported Medical Image Annotation Platform | HPI |
| [FGAI4H-Q-040](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-040.docx) | Workshop programme and presentations (Douala, 6 Dec 2022) | TSB |
| [FGAI4H-Q-040-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-040-A01.pdf) | Att.1 - Presentation - Welcoming remarks | Ministry of Posts and Telecommunications - Cameroon |
| [FGAI4H-Q-040-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-040-A02.ppt) | Att.2 - Presentation - Health system strengthening | Sunny Ibeneme |
| [FGAI4H-Q-040-A03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-040-A03.pptx) | Att.3 - Presentation - Epidemic and HIV drug control | Terrence Beteck Epie |
| [FGAI4H-Q-040-A04](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-040-A04.pdf) | Att.4 - Presentation - Entrepreneurial support for impact | Deogratias Mzurikwao  |
| [FGAI4H-Q-040-A05](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-040-A05.pptx) | Att.5 - Presentation - Funding mechanisms for m-health interventions for maternal health | Brenda Tanyi Mpeh Efeti |
| [FGAI4H-Q-040-A06](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-040-A06.pdf) | Att.6 - Presentation - Inclusive Artificial Intelligence for Accessible Medical Imaging Across Resource-Limited Settings | University of Barcelona |
| [FGAI4H-Q-040-A07](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-040-A07.pptx) | Att.7 - Presentation - Telemedicine - AiMedicare | AiMedicare |
| [FGAI4H-Q-040-A08](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-040-A08.pdf) | Att.8 - Presentation - Non-communicable diseases (NCDs) | Sintieh Ekongefeyin |
| [FGAI4H-Q-040-A09](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-040-A09.pdf) | Att.9 - Presentation - Breast and cervical cancer | GIC Space |
| [FGAI4H-Q-040-A10](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-040-A10.pptx) | Att.10 - Presentation - Radiology in Africa | Ahmed Ahidjo  |
| [FGAI4H-Q-040-A11](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-040-A11.pptx) | Att.11 - Presentation - Challenges Facing Radiology in Africa | University of Ghana Medical School |
| [FGAI4H-Q-041](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-041.pptx) | Collaborations and Outreach (WG-CO) update | WG-CO Chair |
| [FGAI4H-Q-042](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-042.pptx) | ML4H Trial Audits–Iteration 2.0 | WG-DAISAM |
| [FGAI4H-Q-043](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-043.pptx) | WG-Ethics update | WG-Ethics |
| [FGAI4H-Q-044](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-044.pptx) | WG-RC update | WG-RC |
| [FGAI4H-Q-045](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-045.pptx) | Open Code Initiative – Status update | Open Code Group |
| [FGAI4H-Q-046](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-046.pptx) | Updates on DEL5.6 - Data sharing and data sourcing update | Editors DEL5.6 |
| [FG-AI4H-Q-047](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FG-AI4H-Q-047.docx) | Updates on DEL9.1 - Mobile Applications | Editor DEL9.1 |
| [FGAI4H-Q-047-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-047-A01.pptx) | Att.1 - Presentation - Updates on DEL9.1 - Mobile Applications | Editor DEL9.1 |
| [FGAI4H-Q-101](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-101.docx) | Report of the 17th meeting (Meeting Q) of the Focus Group on Artificial Intelligence for Health (Douala, 6-9 December 2022) | Chairman FG-AI4H |
| [FGAI4H-Q-102](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-102.docx) | Updated call for proposals: Use cases, benchmarking, and data | FG-AI4H |
| [FGAI4H-Q-103](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-103.docx) | Updated call for topic group participation (CfTGP) template | FG-AI4H |
| [FGAI4H-Q-105](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-105.docx) | Updated Topic description document (TDD) template | FG-AI4H |
| [FGAI4H-Q-200](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-200.docx) | List of FG-AI4H deliverables (as of 2022-12-09) | TSB |

Annex C:
List of participants

Overall participation for meeting and workshop: 174 (Physical 96, Remote 78)

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Annex D:
Summary of FG-AI4H resources and electronic working methods

Working groups

| Working Group | Leadership |
| --- | --- |
| Clinical evaluation of AI for health (WG-CE) | Co-chairs: Naomi Lee (The Lancet, UK), Upadhyay Shubhanan (ADA Health, Germany), Eva Weicken (Fraunhofer HHI, Germany) |
| Data and AI solution assessment methods (WG-DAISAM) | Chair: Pat Baird (Philips)Vice-chair: Luis Oala (Fraunhofer HHI, DE) |
| Data and AI solution handling (WG-DASH) | Chair: Marc Lecoultre (MLlab.AI, CH)Vice chair: Ferhat Kerif (CHUV, CH) |
| Operations (WG-O) | Co-chairs: Markus Wenzel and Eva Weicken (Fraunhofer HHI, Germany) |
| Regulatory considerations on AI for health (WG-RC) | Chair: Naomi Lee (The Lancet, UK)Vice-chairs:* Paolo Alcini (European Medicines Agency, EU)
* Chandrashekar Ranga (CDSCO, India)
* Khair ElZarrad (FDA, USA)
* Michael Berensmann and Seidel, Robin (Federal Institute for Drugs and Medical Devices, Germany)
* Liang Hong (National Medical Products Administration, China)
 |
| Ethical considerations on AI for health (WG-RC) | Chair: Andreas Reis (WHO) |
| Digital Technologies for COVID Health Emergency (AHG-DT4HE) | Co-chairs: Ana Riviere-Cinnamond (PAHO) and Shan Xu (CAICT, China) |

Topic Groups

| Topic group | Acronym | Leader | References | Created |
| --- | --- | --- | --- | --- |
| 1. Use of AI in cardiovascular disease management
 | TG-Cardio | Benjamin Muthambi (Watif Health, South Africa) | [Q-006-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-006-A01.docx) | C |
| 1. Dermatology
 | TG-Derma | Harsha Jayakody (MyDoctor, Sri Lanka) from Meeting Q | [Q-007-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-007-A01.docx) | B |
| 1. Diagnosis of bacterial infection and anti-microbial resistance
 | TG-Bacteria | Nada Malou (MSF, France) | [Q-008-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-008-A01.docx) | F |
| 1. Falls among the elderly
 | TG-Falls | Pierpaolo Palumbo (University of Bologna, Italy) | [Q-012-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-012-A01.docx) | B |
| 1. Histopathology
 | TG-Histo | Frederick Klauschen (Charité Berlin, Germany) | [Q-013-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-013-A01.docx) | B |
| 1. Malaria detection
 | TG-Malaria | Rose Nakasi (Makerere University, Uganda) | [Q-014-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-014-A01.docx) | F |
| 1. Maternal and child health
 | TG-MCH | Raghu Dharmaraju (Wadhwani AI, India) and Alexandre Chiavegatto Filho (University of São Paulo, Brazil) | [Q-015-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-015-A01.docx) | D; G |
| 1. Neurological disorders
 | TG-Neuro | Marc Lecoultre (ML Labs, Switzerland) and Ferath Kherif (CHUV, Switzerland) | [Q-016-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-016-A01.docx) | B |
| 1. Ophthalmology
 | TG-Ophthalmo | Arun Shroff (MedIndia) | [Q-017-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-017-A01.docx) | B |
| 1. Outbreak detection
 | TG-Outbreaks | Auss Abbood and Alexander Ullrich (Robert Koch Institute, Germany) ; Khahlil Louisy and Alexander Radunsky (Institute for Technology & Global Health, ITGH, US) | [Q-018-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-018-A01.docx)  | E; merged with TG-Sanitation at meeting O |
| 1. Psychiatry
 | TG-Psy | Nicolas Langer (ETH Zurich, Switzerland) | [Q-019-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-019-A01.docx) | C |
| 1. Radiology
 | TG-Radiology | Darlington Ahiale Akogo (minoHealth AI Labs, Ghana) | [Q-023-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-023-A01.docx) | D; H |
| 1. Snakebite and snake identification
 | TG-Snake | Rafael Ruiz de Castaneda (UniGE, Switzerland) | [Q-020-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-020-A01.docx) | B |
| 1. Symptom assessment
 | TG-Symptom | Henry Hoffmann (Ada Health, Germany) and Martin Cansdale (Healthily, UK) | [Q-021-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-021-A01.docx) | B |
| 1. Tuberculosis
 | TG-TB | Manjula Singh (ICMR, India) | [Q-022-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-O-022-A01.docx) | C |
| 1. Volumetric chest CT
 | TG-DiagnosticCT | Kuan Chen (Infervision, China) | [Q-009-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-009-A01.docx) | D |
| 1. Dental diagnostics and digital dentistry
 | TG-Dental | Falk Schwendicke (Charité Berlin, Germany); Joachim Krois (Dental XR AI, Germany); Tarry Singh (deepkapha.ai, Netherlands) | [Q-010-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-010-A01.docx) | G |
| 1. AI-based detection of falsified medicine
 | TG-FakeMed | Franck Verzefé (TrueSpec-Africa, DRC) | [Q-011-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-011-A01.docx) | F |
| 1. Primary and secondary diabetes prediction
 | TG-Diabetes | Andrés Valdivieso (Anastasia.ai & Tecnigen, Chile) | [Q-024-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-024-A01.docx) | H |
| 1. AI for endoscopy
 | TG-Endoscopy | Jianrong Wu (Tencent Healthcare, China) | [Q-025-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-025-A01.docx) | I |
| 1. AI for musculoskeletal medicine
 | TG-MSK | Peter Grinbergs (EQL, UK), Yura Perov (UK) | [Q-026-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-O-026-A01.docx) | J |
| 1. AI for human reproduction and fertility
 | TG-Fertility | Susanna Brandi, Eleonora Lippolis (Merck KGaA, Darmstadt, Germany) | [Q-027-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-027-A01.docx) | L |
| 1. AI for traditional medicine
 | TG-TM | Saketh Ram Thrigulla (Ministry of Ayush, India) | [Q-029](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-Q-029.docx) | P |
| 1. AI for point-of care diagnostics
 | TG-POC | Nina Linder (University of Helsinki, Finland) | [Q-028-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-028-A01.docx) | L |

Mailing lists

| Description | Mailing list | Archive |
| --- | --- | --- |
| General mailing list | fgai4h@lists.itu.int | <https://itu.int/ml/lists/arc/fgai4h> |
| TG-Cardio), specific discussions for sub-topic on clinical predictions | fgai4htgcardiocp@lists.itu.int | <https://itu.int/ml/lists/arc/fgai4htgcardiocp> |
| TG-Cardio), specific dis­cussions for sub-topic on cardiac image analyses | fgai4htgcardiocia@lists.itu.int | <https://itu.int/ml/lists/arc/fgai4htgcardiocia> |
| TG-Derma | fgai4htgderma@lists.itu.int | <https://itu.int/ml/lists/arc/fgai4htgderma>  |
| TG-Diabetes | fgai4htgdiabetes@lists.itu.int | <https://itu.int/ml/lists/arc/fgai4htgdiabetes> |
| TG-Falls | fgai4htgfalls@lists.itu.int | <https://itu.int/ml/lists/arc/fgai4htgfalls> |
| TG-Malaria | fgai4htgmalaria@lists.itu.int | <https://itu.int/ml/lists/arc/fgai4htgmalaria> |
| TG-Ophthalmo | fgai4htgophthalmo@lists.itu.int | <https://itu.int/ml/lists/arc/fgai4htgophthalmo> |
| TG-Outbreaks | fgai4htgoutbreaks@lists.itu.int | <https://itu.int/ml/lists/arc/fgai4htgoutbreaks> |
| TG-Symptoms | fgai4htgsymptom@lists.itu.int | <https://itu.int/ml/lists/arc/fgai4htgsymptom> |
| TG-MSK | fgai4htgmsk@lists.itu.int | <https://itu.int/ml/lists/arc/fgai4htgmsk> |
| TG-Psy | fgai4htgpsy@lists.itu.int | <https://itu.int/ml/lists/arc/fgai4htgpsy> |
| TG-Fertility | fgai4htgfertility@lists.itu.int | <https://itu.int/ml/lists/arc/fgai4htgfertility> |
| AHG-DT4HE | fgai4hahgdt4he@lists.itu.int | <https://itu.int/ml/lists/arc/fgai4hahgdt4he>  |

Working methods (Ref: [E-101](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-E-101.docx), report of Meeting E)

Decision making by correspondence

Decisions should preferably be taken in physical meetings of the FG. However, in order to allow the FG to work more efficiently, an online decision-making process would be useful.

The FG agreed to an online approval process for taking decisions (e.g. appointments and documentation). The initial procedure is as follows:

* Decisions are taken by consensus. (Note: consensus is declared by the chairman and it does *not* imply unanimity.)
* The general FG mailing list (fgai4h@lists.itu.int) is used to announce the decision being taken, provide links to relevant documents.
* Specify a commenting period, typically two weeks, for receiving comments with concerns. These comments should be addressed by email to the secretariat, tsbfgai4h@itu.int. Absence of comments imply agreement to the proposed decision.
* If comments are received, they are discussed and resolved by the FG management in coordination with the commenters.
* If the amendment is minor, the chairman declares approval
* If the amendment is substantive, another consultation is started, or decision is postponed till the next meeting of the FG

Organizing interim electronic meetings

The following procedure is to be applied for organizing interim meetings of the FG and its WGs:

* **Announcement** in the general FG email reflector (fgai4h@lists.itu.int) for date/time and objectives **two weeks prior**
* **Documents** uploaded to the appropriate repository

Annex E:
Summary of decisions

[Dec-Q-1. The report of the meeting in Helsinki, 20-22 September 2022 found in P-101 was approved without comments and its five output documents were noted (P-102, P-200, P-201, P-202, and P-203).](#_Toc129357604)

[Dec-Q-2. It was agreed that Ivy Lee (American Academy of Dermatology, USA) is now a co-driver of **TG-Derma**, together with Harsha Jayakody (Flash Health, Sri Lanka)](#_Toc129357605)

[Dec-Q-3. The group confirmed that the driver for the **TG on traditional medicine** (TG-TM) will be Saketh Ram Thrigulla (Ministry of Ayush, Government of India).](#_Toc129357606)

[Dec-Q-4. It was agreed to update the TDD template as found in Q-105 and the CfTGP in Q-103.](#_Toc129357607)

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