



ISO/TC 304 "Healthcare organization management"
Secretariat: ANSI
Committee manager: Webster Lee Mr



Ballot to create new WG on Smart Hospitals

Document type	Related content	Document date	Expected action
Ballot / Reference document	Ballot: N457 - Ballot to create new WG on Smart Hospitals (restricted access)	2024-10-07	INFO by 2024-11-05

Description

Dear TC 304 members,

As announced in N453, ISO/NP 25268 Guidelines for Hospital Internal Logistics Services using Autonomous Mobile Robots, was approved. After discussion with the PL and leadership, it is suggested that TC 304 create a new WG entitled Smart Hospitals for this project. It is also anticipated that additional project proposals will be forthcoming in this area. The following information is now being circulated for TC 304 approval:

1. WG title: Smart hospitals
2. WG terms of reference: Standardization in the field of smart hospital management (e.g. smart management and services in healthcare organizations)
3. WG convenor: Sun-Ju Ahn (attached information provided)
4. Call for experts



WORKING GROUP (WG) CONVENOR – APPOINTMENT

ISO/TC 304 /SC Enter Number /WG Enter Number

WG title:

Smart hospitals

Please complete and return this form to the Central Secretariat as soon as possible.

Dr Mr Mrs Ms

Surname

AHN

First name

Sun-Ju

Professional address

N Center #86711, Sungkyunkwan University, 2066, Seobu-ro, Janan-gu, Suwon-si, Gyeonggi-do, 16419, Korea

Country

South Korea

Telephone

+82-31-299-4791, +82-10-8534-3064

Email

April0149@gmail.com ahnsunju@skku.edu

WG project(s)

1. ISO/AWI 25268 Guidelines for Hospital Internal Logistics Services using Autonomous Mobile Robots
2. Smart hospitals — Functional requirements for smart hospital services (NWIP forthcoming)

This nomination has been confirmed by the National Standards Body of the Convenor

A biography/CV accompanied the nomination on the committee internal ballot

Committee Manager of ISO/TC

304 /SC Enter Number

Name and signature:

Rachel Hawthorne

Date:

2024-10-04

Prof. Dr. Sun–Ju AHN

Department of Biophysics, Sungkyunkwan University

N Center #86711, 2066, Seobu–ro, Jangan–gu, Suwon–si, Gyeonggi–do, 16419, Korea

1. Education

2008 – 2010 M.D. in Health Policy and Management, Seoul National University, Korea

2003 – 2005 M.P.H. in Public Health Policy, Seoul National University, Korea

2. Experience

A) 2023 – Present Co-founder & Leader

Organoid Standards Initiative (OSI)

*Partnership with Ministry of Food and Drug Safety

B) 2021 – 2023 Director

Korea Society of Artificial Intelligence in Medicine (KoSAIM)

C) 2018 – 2019 Korean Delegation

ISO/IEC JTC 1 SC 42 Artificial Intelligence

[Designated by Korean Agency for Technology and Standard (KATS),
Ministry of Trade, Industry and Energy],

D) 2020 – Present Korean Delegation & Project Leader

“General requirements for manufacturing and application of organoids”

[Designated by Korean Agency for Technology and Standard (KATS),
Ministry of Trade, Industry and Energy], ISO/TC 276 Biotechnology

E) 2020 – Present Head of Delegation (HoD)

[Designated by Korean Agency for Technology and Standard (KATS),

Ministry of Trade, Industry and Energy], ISO/TC 304 Healthcare Organization Management

*Presentation for proposal of establishing a new working group on Smart Hospitals (2023.11.28)

F) 2020 – Present Project Leader

ISO 5258 Healthcare organization management – Pandemic response (respiratory) – Drive–through screening station

ISO 5472 Healthcare organization management – Pandemic response (respiratory) – Walk–through screening station

ISO 5741 Healthcare organization management – Pandemic response – Temporary medical facilities

ISO 6028 Healthcare organization management – Pandemic response – Self–symptom checker

ISO 6763 Pandemic response – Social distancing and source control

ISO/TS 17371 IPC measures for cross–border workers

“Pandemic preparation and response” Working Group in ISO/TC 304(Healthcare Organization Management)

G) 2020 Founder of WG 4 in ISO/TC 304

“Pandemic preparation and response” Working Group in ISO/TC 304(Healthcare Organization Management)

H) 2009 – Present Korean Delegation & Project Leader

ISO/TS 23535 Health informatics — Requirements for customer–oriented health cloud service

agreements

[Designated by Korean Agency for Technology and Standard (KATS),
Ministry of Knowledge Economy], ISO/TC 215 Health Informatics

I) 2016 – 2019 Commissioner

Presidential Committee on Personal Information Protection Commission

J) 2014 – 2018 National Coordinator for ICT (Smart Health)

Korean Agency for Technology and Standards, Ministry of Trade, Industry and Energy

K) 2017 – Present Vice chair and Director

Incorporated association, Smart Health Standards Forum, Ministry of Trade, Industry and Energy

2016 – 2017.7 Co-chair and Director

Smart Health Standards Forum. Purpose of the Forum: Develop and distribute the conformance testing tool to ensure interoperability of health information

L) 2012 – 2022 Advisory Committee Member

Ministry of Health & Welfare & Ministry of Trade, Industry and Energy

M) 2011 – 2014 Research Professor

Department of Medical Engineering, Yonsei University, Seoul, Korea

N) 2011 – Present Clinical Information Modelling Initiative(CIMI) member

Health level 7 International

O) 1999 – 2007 Manager of health information department

Dong-Eui Medical Center (General Hospital), Busan, Korea

3. Training

2009.2 Intermountain Health Care (IHC), Salt Lake City, Utah, USA

4. Research Interest

Standards, Smart Hospital, AI, Robotics, Cloud computing, Infectious disease policy and management, Regulatory Science, Biotechnology, Organoids, Biomedical informatics, Medical Device, Health IT, Healthcare Data,

5. Publication

A) Books

(1) 2021.7. "Wars of Standards, from diamonds to containers", Selected as Sejong Books Academic Sector (Technical Science Field) in 2022

(2) 2019.9. "Health Care and Standards in the Age of Artificial Intelligence", Selected as Sejong books Academic Sector (Technical Science Field) in 2020

(3) 2018.11. "4th Industrial Innovation and Future of the hospital" (Co-author)

(4) 2012.1. "Privacy & Security in Healthcare", (Co-author), (2nd edition)

B) Papers for 'Standards'

(1) **Ahn, S.-J.** (2024) "Considerations on Standardization in Smart Hospitals" Health Policy and Management. 34(1), pp. 1–13. doi: 10.4332/KJHPA.2024.34.1.1

(2) Lee H, Yang S, Lee KJ, Kim SN, Jeong JS, Kim KY, Jung CR, Jeon S, Kwon D, Lee S, Lee H, Park

Ahn SJ, Yoo J, Son MY. Standardization and quality assessment for human intestinal organoids. *Front Cell Dev Biol.* 2024 Sep 12;12:1383893. doi: 10.3389/fcell.2024.1383893. PMID: 39329062; PMCID: PMC11424408.

(3) **Ahn SJ**. Standards for Organoids. *Int J Stem Cells.* 2024 May 30;17(2):99–101. doi: 10.15283/ijsc24043. Epub 2024 May 27. PMID: 38798276; PMCID: PMC11170121.

(4) **Ahn SJ**, Lee S, Kwon D, Oh S, Park C, Jeon S, Lee JH, Kim TS, Oh IU. Essential Guidelines for Manufacturing and Application of Organoids. *Int J Stem Cells.* 2024 May 30;17(2):102–112. doi: 10.15283/ijsc24047. Epub 2024 May 20. PMID: 38764240; PMCID: PMC11170116.

(5) Lee S, Rim YA, Kim J, Lee SH, Park HJ, Kim H, **Ahn SJ**, Ju JH. Guidelines for Manufacturing and Application of Organoids: Skin. *Int J Stem Cells.* 2024 May 30;17(2):182–193. doi: 10.15283/ijsc24045. Epub 2024 May 24. PMID: 38783680; PMCID: PMC11170114.

(6) Kwak T, Park SH, Lee S, Shin Y, Yoon KJ, Cho SW, Park JC, Yang SH, Cho H, Im HI, **Ahn SJ**, Sun W, Yang JH. Guidelines for Manufacturing and Application of Organoids: Brain. *Int J Stem Cells.* 2024 May 30;17(2):158–181. doi: 10.15283/ijsc24056. Epub 2024 May 23. PMID: 38777830; PMCID: PMC11170118.

(7) Moon HR, Mun SJ, Kim TH, Kim H, Kang D, Kim S, Shin JH, Choi D, **Ahn SJ**, Son MJ. Guidelines for Manufacturing and Application of Organoids: Liver. *Int J Stem Cells.* 2024 May 30;17(2):120–129. doi: 10.15283/ijsc24044. Epub 2024 May 22. PMID: 38773747; PMCID: PMC11170117.

(8) Kang HM, Kim DS, Kim YK, Shin K, **Ahn SJ**, Jung CR. Guidelines for Manufacturing and Application of Organoids: Kidney. *Int J Stem Cells.* 2024 May 30;17(2):141–146. doi: 10.15283/ijsc24040. Epub 2024 May 20. PMID: 38764433; PMCID: PMC11170122.

(9) Woo CG, Chung C, Cho YH, Hong SH, Cho YJ, **Ahn SJ**. Guidelines for Manufacturing and Application of Organoids: Lung. *Int J Stem Cells.* 2024 May 30;17(2):147–157. doi: 10.15283/ijsc24041. Epub 2024 May 23. PMID: 38777828; PMCID: PMC11170115.

(10) Lee HA, Woo DH, Lim DS, Oh J, Kim CY, Bae ON, **Ahn SJ**. Guidelines for Manufacturing and Application of Organoids: Heart. *Int J Stem Cells.* 2024 May 30;17(2):130–140. doi: 10.15283/ijsc24046. Epub 2024 May 23. PMID: 38777829; PMCID: PMC11170119.

(11) **Ahn S**, Huff SM, Kim Y, Kalra D. Quality metrics for detailed clinical models. *Int J Med Inform.* 2013 May;82(5):408–17. doi: 10.1016/j.ijmedinf.2012.09.006. Epub 2012 Oct 22. PMID: 23089521.

(12) Lee S, Kwon D, Lee HB, Jeon S, Park C, Kim TS, Lee JH, Oh IU, **Ahn SJ**. Guidelines for Packaging, Transport, and Storage of Source Cells for Organoids. *Int J Stem Cells.* 2024 May 30;17(2):113–119. doi: 10.15283/ijsc24042. Epub 2024 May 13. PMID: 38735854; PMCID: PMC11170112.

(13) Yun JH, **Ahn SJ**, Kim Y. Development of clinical contents model markup language for electronic health records. *Healthc Inform Res.* 2012 Sep;18(3):171–7. doi: 10.4258/hir.2012.18.3.171. Epub 2012 Sep 30. PMID: 23115739; PMCID: PMC3483474.

(14) Bae EB, Nam S, Lee S, **Ahn SJ**. Network analysis for estimating standardization trends in genomics using MEDLINE. *BMC Med Res Methodol.* 2022 Oct 7;22(1):263. doi: 10.1186/s12874-022-01740-4. PMID: 36207671; PMCID: PMC9540045.

(15) **Ahn, S.-J.** (2021) "Requirements for Reusable Infection Prevention and Control Measures for COVID-19 Response," *Health Policy and Management.* 31(3), pp. 244–254. doi: 10.4332/KJHPA.2021.31.3.244.

6. Award

2023. ISO Excellence Award

2021. Service Merit Medal

2018. Minister of Health and Welfare Award

2014. Prime Minister Award

2012. YunKwak Award, YunKwak Memorial Association

2007. Minister of Health and Welfare Award

2005. Star Award, Dong-Eui Medical Center