



5th INTERNATIONAL SEMINAR AND WORKSHOP
ON PUBLIC HEALTH ACTION

EMPOWERING DIGITAL HEALTH AND BLUE ECONOMIC
TO IMPROVE PUBLIC HEALTH

PROCEEDING



HYBRID
CONFERENCE

SEPTEMBER 16, 2025



Building E, 3rd Floor,
Universitas Dian Nuswantoro
Pendrikan Kidul, Central Semarang, Semarang City,
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Welcome Remarks from the Rector



Assalamu'alaikum warahmatullahi wabarakatuh,
Peace and blessings to all of you.

Let us begin by expressing our deepest gratitude to God Almighty for His grace and blessings, which allow us to gather today—onsite and online—for this meaningful academic event. It is a great honor for me to welcome you to the **5th International Seminar and Workshop on Public Health Action (ISWOPHA)**, proudly hosted by the **Faculty of Health Science, Universitas Dian Nuswantoro (UDINUS)**.

This year's theme, *“Empowering Digital Health and Blue Economic to Improve Public Health,”*

reflects our shared commitment to advancing public health through innovation, sustainability, and interdisciplinary collaboration. It resonates deeply with UDINUS's institutional vision to become a **World Class University**—one that bridges technology, entrepreneurship, and societal impact.

I am delighted to extend my warmest greetings to our distinguished keynote speakers, whose presence and insights elevate the quality of this forum:

- **Prof. Dr. Eiji Yamashita** – Osaka City University
- **Assoc. Prof. TS. Dr. Shahrul Ismail** – Universiti Malaysia Terengganu
- **Asst. Prof. Pol. Maj. Dr. Katiya Ivanovitch** – Thammasat University
- **Assoc. Prof. Enny Rachmani, BPH., M.Cs., Ph.D** – Universitas Dian Nuswantoro
- **Dr. Tuyen Van Duong, RN., MNSc., Ph.D** – President, Asian Health Literacy Association

We are also honored by the presence of esteemed guests from various universities, representatives from the Ministry of Health and regional health offices, and institutional partners who continue to support the advancement of public health through education, research, and policy.

As Rector, I am proud to witness our Faculty of Health Science take a leading role in organizing this international seminar. UDINUS has long been recognized for its excellence in **digital health**, where we integrate biomedical informatics, computer science, and public health to develop intelligent systems that empower communities and support evidence-based decision-making. Beyond technology, UDINUS also nurtures a strong culture of **entrepreneurship**,

encouraging students and researchers to transform ideas into real-world solutions, startups, and social innovations that contribute to national development.

This dual strength—technological innovation and entrepreneurial mindset—is what sets UDINUS apart. We believe that universities must not only generate knowledge but also cultivate resilience, creativity, and leadership in facing global challenges.

I would also like to express my sincere appreciation to all **parallel session presenters and participants**. This year, we are proud to host **more than 180 presenters** from **various countries**, each contributing valuable insights and research across diverse fields of public health. Your participation is the heartbeat of this seminar, and your work will undoubtedly inspire new collaborations and drive meaningful change across disciplines and borders.

Let us move forward together—with clarity of purpose, courage to innovate, and a shared commitment to public health for all.

Thank you, and may this seminar be a resounding success.
Wassalamu'alaikum warahmatullahi wabarakatuh.
Warm regards from UDINUS.

Prof. Pulung Nurtantio Andono, S.T., M.Kom., Ph.D
Rector of Universitas Dian Nuswantoro



Welcome Remarks from the Dean

Assalamu'alaikum warahmatullahi wabarakatuh,
Peace and warm greetings to all participants, speakers, and esteemed guests of ISWOPHA 2025.

It is with great pleasure that Faculty of Health Sciences, Universitas Dian Nuswantoro (UDINUS) welcome you to the 5th International Seminar and Workshop on Public Health Action (ISWOPHA). This year's theme, **"Empowering Digital Health and Blue Economy to Improve Public Health,"** reflects

our shared commitment to harness cutting-edge technology and sustainable resources for the betterment of global health. We are honored to join hands with TVKU (Television Campus of UDINUS) in presenting this hybrid forum, uniting scholars, practitioners, and policymakers both in person and online on September 16, 2025.

We extend our deepest gratitude to the distinguished keynote speakers—professors, researchers, and public health experts—whose insights will shape today's dialogue. Likewise, we thank the organizing committee, technical staff, and volunteers whose dedication has made this event possible. To all presenters and participants, your contributions will spark transformative conversations and pave the way for innovative collaborations.

This year, 5th ISWOPHA is not a standalone event—it is part of a dynamic series of international activities such as International Competition, Mid-Year Camp, and Symposium for Health Literacy, and the conference also engages various speakers from Thailand, Malaysia, Taiwan, Bangladesh, etc.

As you explore the diverse program of paper presentations, symposium, and plenary sessions, we encourage you to engage fully, question boldly, and forge new professional connections. May 5th ISWOPHA 2025 inspires fresh perspectives and catalyzes actionable strategies that advance public health through digital empowerment and sustainable blue economy practices.

We extend our deepest appreciation to the distinguished speakers, organizing committee, and all participants whose contributions make this series impactful. May 5th ISWOPHA 2025 and its companion events inspire transformative ideas, forge lasting collaborations, and accelerate progress toward equitable and sustainable public health systems.

May this seminar inspire meaningful knowledge, spark new collaborations, and lead to transformative actions in public health. We wish you a productive and memorable experience.

Wassalamu'alaikum warahmatullahi wabarakatuh.

Dean,

Faculty of Health Science, Universitas Dian Nuswantoro

Assoc.Prof. Enny Rachmani, BSc.PH, M.Cs, Ph.D

Welcome Remarks from The Committee



Ladies and gentlemen, distinguished guests, esteemed colleagues, and participants,

It is my distinct honor and privilege to welcome you all to the 5th International Seminar and Workshop on Public Health Action (ISWOPHA) 2025, hosted by the Faculty of Health Sciences at Universitas Dian Nuswantoro.

In recent years, the global community has faced significant challenges stemming from climate change, environmental degradation, and the ongoing need to optimize healthcare services. These issues point to the importance of innovative approaches, notably digital health transformation and the blue economy, as strategic pathways to improving public health outcomes.

Digital health technologies -such as telemedicine, mobile health, and advanced data analytics- offer unprecedented opportunities to streamline healthcare delivery, broaden access to vital health information, and empower people to take ownership of their health. Concurrently, the Blue Economy emphasizes the sustainable utilization of marine and coastal resources, which has a direct and profound impact on community health, particularly in coastal regions like Semarang and throughout Indonesia.

The theme for this year's conference, "**Empowering Digital Health Transformation and Blue Economy to Improve Public Health,**" aptly reflects the imperative to integrate these domains. By harnessing technological innovation alongside sustainable environmental practices, we can develop more effective strategies to address pressing public health needs, fostering resilient and healthier communities.

It is my honor to introduce our esteemed speakers, whose expertise and insights will greatly enrich the discourse: **Professor Dr Eiji Yamashita**, from The OCU Advanced Research Institute for Natural Science and Technology, Osaka City University, and Chief Commercial Officer of Evergen Company; **Dr Tuyen V. Duong, RN, MNsc, PhD**, from Taipei Medical University, and President of the Asian Health Literacy Association; **Associate Professor TS. Dr Shahrul bin Ismail**, from the Faculty of Ocean Engineering Technology, Universiti Malaysia Terengganu; **Assistant Professor Pol. Maj. Dr Katiya Ivanovitch**, from the Faculty of Public Health, Thammasat University; and Associate Professor Enny Rachmani, BPH, M.Cs., Ph.D., from the Faculty of Health Sciences, Universitas Dian Nuswantoro.

We are delighted to welcome participants from many universities across Indonesia and abroad, representing a diverse and vibrant community of scholars, professionals, policymakers, and students. This gathering provides a unique platform for the exchange of ideas, knowledge dissemination, and fostering collaboration on a global scale.

Our discussions will explore emerging technological innovations, including artificial intelligence and the Internet of Things, as well as sustainable blue economy initiatives. By emphasizing synergy between digital health innovation and sustainable environmental development, ISWOPHA 2025 aims to catalyze international cooperation, enhance community resilience, stimulate economic opportunities, and promote health equity worldwide.

Finally, we would like to express our sincere gratitude to Universitas Dian Nuswantoro, all speakers, participants, sponsors, and everyone who has supported the success of ISWOPHA 2025. Your valuable contributions and cooperation have been instrumental in making this event possible. We sincerely apologize if there are any shortcomings in the organization of this conference. Your understanding and continuous support are greatly appreciated.

As we convene-both in person and virtually-I encourage all participants to leverage this forum for meaningful dialogue, innovative partnerships, and transformative impact. Let us work collectively to advance public health through strategic integration of technology and sustainability, ultimately striving for a healthier, more equitable world.

Thank you, and I wish you all a productive and inspiring seminar

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