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Forum on Harnessing Artificial Intelligence for He**AI**th Equity

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Online and at ADB Headquarters, Manila, Philippines

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AI Capacity Building for Health Workforce in Korea: From Medical AI to AI Medicine

Rethinking Health Workforce Education for the AI Era

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Three principles to guide the transformation of health workforce education

1. AI as a Systemic Force
2. Defending Evidence-Based Medicine
3. Continuous Monitoring as a Core Competency

AI as a Systemic Force

- Not every clinician as a data scientist — a specialized **cadre**, not a universal mandate
- Health professionals as **informed coordinators of AI** in clinical and public health workflows
- Education for practical, ethical, and population-level responsibility

Defending Evidence-Based Medicine

- AI-derived insights must meet **the same evidentiary threshold** as RCTs and systematic reviews
- **Scrutinize algorithmic outputs** for flawed methodology, unrepresentative data, and hidden biases
- Applies equally to individual treatment decisions and population health strategies

Continuous Monitoring as a Core Competency

- Model drift, population shifts, and changing data environments are foreseeable realities at scale
- Clinicians and health system managers trained to **detect failures early** and **escalate appropriately**

Embed performance monitoring as a routine competency, not an optional specialization

Health Equity as a Shared Commitment

- Partners contributing distinct strengths
- Co-creators of systems that are more generalizable and more trustworthy

Korea's Approach: Education Scope

- Medical schools as a starting point, not the boundary
- Extending to engineering, nursing, public health, health sciences, health informatics, and health policy
- Healthcare as an **interconnected ecosystem** — educational investments designed to reflect that

Addressing Geographic Concentration

- Historical tilt toward Greater Seoul Area in educational and research resources
- **Affirmative evaluation framework**: additional weight for initiatives outside the capital region
- Capacity building in health AI as a genuinely nationwide effort

Bio-Health and Industry Workforce

- Parallel investment in pharmaceutical, bio-health, and medical device sectors
- R&D-oriented technical training, including **autonomous laboratory operations**
- Cultivating a specialized workforce across the full spectrum of health technologies

The AI Basic Health Framework

- Scheduled for publication this quarter, within the broader AI Basic *Society* Framework
- Addressing regional healthcare disparities, essential medical services, and public health infrastructure
- Education and workforce development as a foundational pillar

International Collaboration

- Sharing our approach — including the challenges we continue to face — through multilateral and bilateral exchanges
- Collaboration with **ADB and WHO** as essential to responsible health AI governance
- Equally committed to learning from partner countries and contributing to the collective effort

A trusted AI Hub for health — in Asia and beyond
— where countries come together to share
evidence, develop common standards, and co-
create solutions

Thank You

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