

Survey Questions

The following questions were included in the survey:

1. Your Identity [Single Choice Question]*

Please select your professional identity

- ☐ Doctor
- ☐ Technical Staff
- ☐ Nursing Staff
- ☐ Pharmaceutical-related Staff
- ☐ Student

2. Your Highest Education [Single Choice Question]*

Please select your highest educational qualification

- ☐ Doctorate
- ☐ Master's Degree
- ☐ Bachelor's Degree
- ☐ Associate Degree or below

3. Your Workplace (for staff) or School (for students) [Single Line Text]*

For staff, please enter your workplace; for students, please enter your current school

4. Your Years of Work Experience [Dropdown]*

Please select your years of work experience (years)

- ☐ 0-3
- ☐ 3-5
- ☐ >5

5. Your Gender [Single Choice Question]*

Please select your gender

- ☐ Male
- ☐ Female

6. Your Age [Dropdown]*

Please select your age range

- ☐ 18-24
- ☐ 25-34
- ☐ 35-44
- ☐ 45-54

○ 55 and above

7. Technical Literacy [Scale/NPS] (Please rate 1-4)*

Do you consider yourself a technologically proficient person? (1 – Strongly disagree, 4 – Strongly agree)

Your rating: _____

8. Deep Learning and Artificial Intelligence in Nuclear Medicine [Matrix Scale]*

Deep learning and artificial intelligence in nuclear medicine have been widely discussed (0 – No, 1 – Yes)

Have you heard about deep learning and artificial intelligence in nuclear medicine?

_____ Do you have a basic understanding of deep learning and artificial intelligence technology?

9. Sources of AI Knowledge [Matrix Scale]*

Other applications we use in daily life already use AI (e.g., speech/text recognition, spam filters, recommendation algorithms). Are you aware of this? (0 – No, 1 – Yes)

Media (newspapers, radio, television, etc.) _____

Social media (WeChat, Weibo, TikTok, Xiaohongshu, Bilibili, etc.) _____

Lectures _____

Friends/Family _____

10. Applications of AI in Nuclear Medicine [Matrix Scale]*

What potential applications of AI in nuclear medicine do you think there are? (1 – Strongly disagree, 4 – Strongly agree)

Automatic lesion detection in imaging _____

Automatic lesion diagnosis in imaging _____

Automatic indication of appropriate imaging examinations _____

11. Attitudes Toward AI [Matrix Scale]*

To what extent do you agree with the following statements? (1 – Strongly disagree, 4 – Strongly agree)

AI will revolutionize nuclear medicine. _____

AI will revolutionize medicine. _____

Nuclear medicine physicians will be replaced in the future. _____

Doctors will be replaced in the foreseeable future. _____

These developments scare me. _____

These developments make nuclear medicine more interesting. _____

These developments make medicine more interesting. _____

AI will never make doctors redundant. _____

AI will improve nuclear medicine. _____

AI will improve medicine. _____

AI should be part of medical training. _____

12. Specific Interests in AI in Medicine [Multiple Choice Question]*

Which specific topics about AI in medicine interest you most? (Select all that apply)

- ☐ Advantages and disadvantages of using AI in medicine
- ☐ When to use AI in medicine
- ☐ Basic concepts of AI
- ☐ Types of AI models (e.g., Natural Language Processing – NLP, Convolutional Neural Networks – CNN, etc.)
- ☐ How to create AI models using Python
- ☐ Ethical issues of AI
- ☐ How to bring AI models into clinical practice (translational science)
- ☐ Applications of AI in medical research