

# Clinical Implementation and Deployment of an AI-assistant for Thyroid Cancer Management

Dr. Matrix Fung Man Him



## Technology

- Development of a deployment and implementation architecture for AI applications in thyroid cancer management with LLMs and a clinical dashboard



## Stage of development

### Validated framework

- LLMs achieved >90% accuracy for AJCC and ATA

### Preliminary results

- High performance with real-world HA clinical notes

### Ongoing development and validation

- Clinical decision support of treatment recommendation and evaluation of clinical utility and user satisfaction with RCT



## Key advantages

### Patient Privacy and Data security

- Operates offline and in local servers complying with data governance and HA requirements

### High accuracy and reliability

- >90% accuracy in AJCC staging and ATA risk stratification validated with real-world clinical notes in collaboration with HA Statistics and Data Science Department

### Scalability and Market Potential

- Initial deployment in HA hospitals and further collaboration with Cancer Registry provide real-world evidence for broad translational and commercial impact

### Clinical Relevance

- Provides treatment recommendation and a clinical dashboard for cross-referencing to support clinician verification, confidence, and medical training via engagement with stakeholders



醫院管理局  
HOSPITAL  
AUTHORITY



## Intellectual Property

- Patent/copyright
- Licensing agreement
- Spin-off company
- Peer-review journals
- Conferences
- Other Disseminations



## Opportunities

- Partnership** with HA hospitals, HA Statistics & Data Science Department, Cancer Registry, and HKUMed to provide clinical assistant and education tool for sustainable utility
- Commercialization** to private hospital, private healthcare providers, and other institutions in Hong Kong and overseas



## Contact

Dr. Matrix Fung Man Him  
[mmhfung@hku.hk](mailto:mmhfung@hku.hk)



HKU Med  
LKS Faculty of Medicine  
The University of Hong Kong  
香港大學李嘉誠醫學院