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Vietnam studies AI utilization in tuberculosis screening

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VinBrain and FIT Jointly Release a White Paper on Utilizing Artificial Intelligence in Tuberculosis Screening



VinBrain (Vingroup) and FIT (a German NGO working in the field of Tuberculosis prevention and control) have jointly released a white paper on utilizing artificial intelligence (AI) in Tuberculosis (TB) diagnosis and screening in Vietnam.

The white paper provides doctors and medical specialists with a better understanding of the current situation of TB diagnosis, as well as introducing the AI model v1 for TB diagnosis and screening with a sensitivity of 86% and a specificity of up to 96.1%.

The white paper provides an overview of the current situation of TB diagnosis and screening in Vietnam, and introduces the AI model developed by VinBrain which helps improve the accuracy in reading Chest X-rays for TB diagnosis and screening. The solution has been developed via several steps including system design, data collection and labeling, pre-processing and model training, model evaluation, model deployment and monitoring.

VinBrain has integrated the AI model for TB diagnosis and screening into DrAid - its "Doctor Assistant". DrAid is an AI-powered product which can detect 21 abnormalities and diseases of heart - lung - bone with an average accuracy of over 88% within 5 seconds, and auto-generate medical reports. Thanks to this integration, the AI model can diagnose TB disease simultaneously with other lung diseases and abnormalities.

Doctors can now use DrAid to detect and screen TB by uploading X-ray images directly from the X-ray machines to the system and receiving diagnostic suggestions by AI.