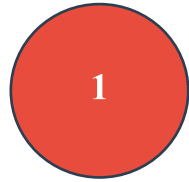
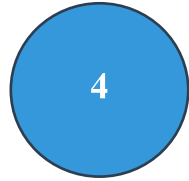


## (a) Limitations of Traditional Diagnosis



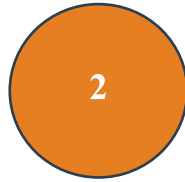
**Inter-observer  
Variability**

20-30%  
error range



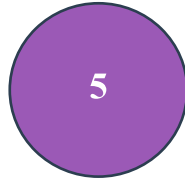
**Time  
Constraints**

100-300+  
images/study



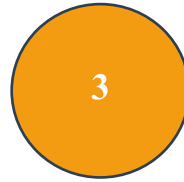
**Fatigue  
Effects**

Performance  
decreases



**Specialist  
Shortage**

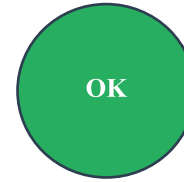
1:100,000  
ratio



**Expertise  
Dependency**

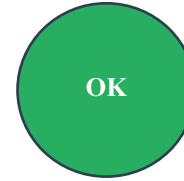
Years of  
training

## (b) AI-Assisted Diagnosis Benefits



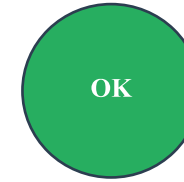
**Consistency**

100%  
reproducible



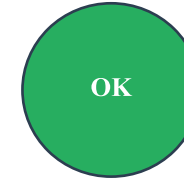
**Explainability**

GradCAM +  
RAG



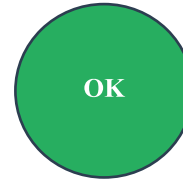
**Speed**

5 ms  
inference



**Accessibility**

Edge  
deployable



**Accuracy**

97.40%  
test acc