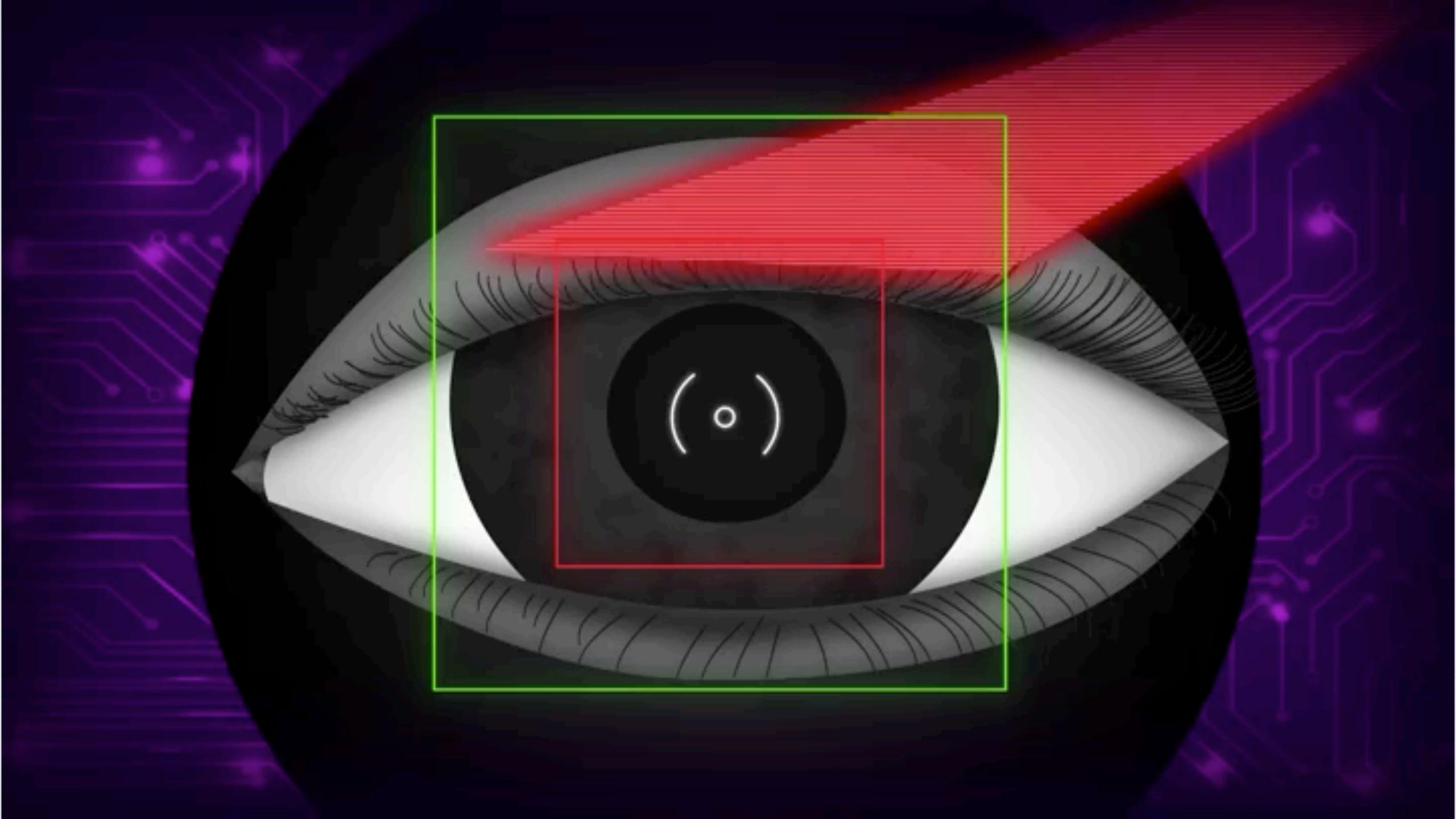
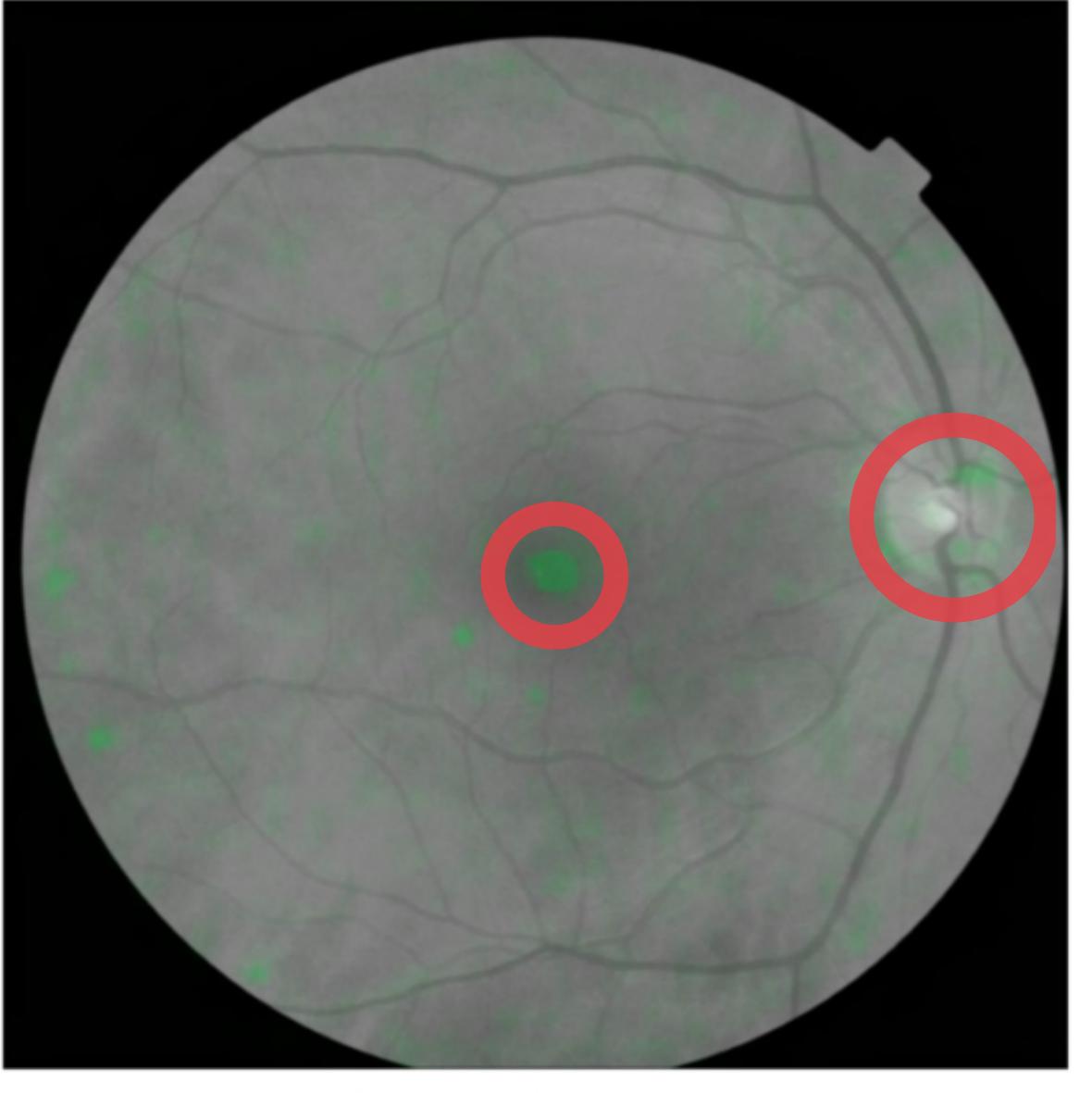
# AI CAN SEETHROUGH YOUR EYES WHAT DOCTORS CAN'T

by Léon van der Lee



- Google DeepMind
- Anatomical regions
- Heat maps
- 97% accuracy

#### Gender

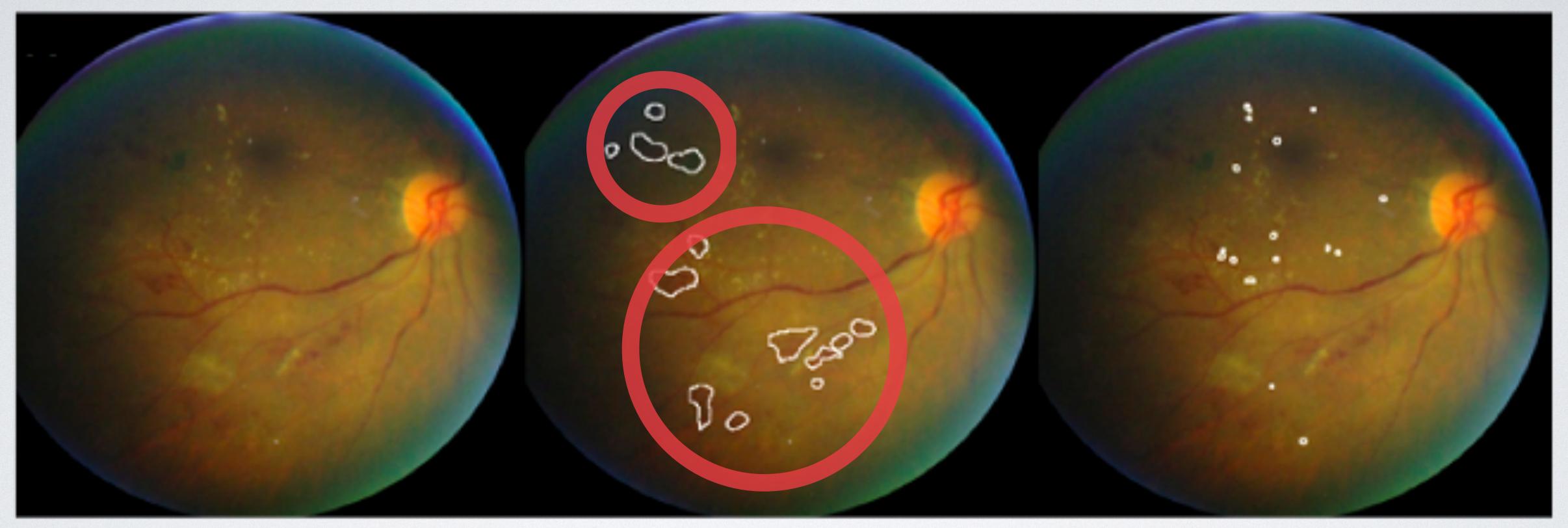


Actual: Female Predicted: Female

- 50 different eye diseases
- Convolutional neural network
- Training Data Set: 128175
- Random sample of 9963

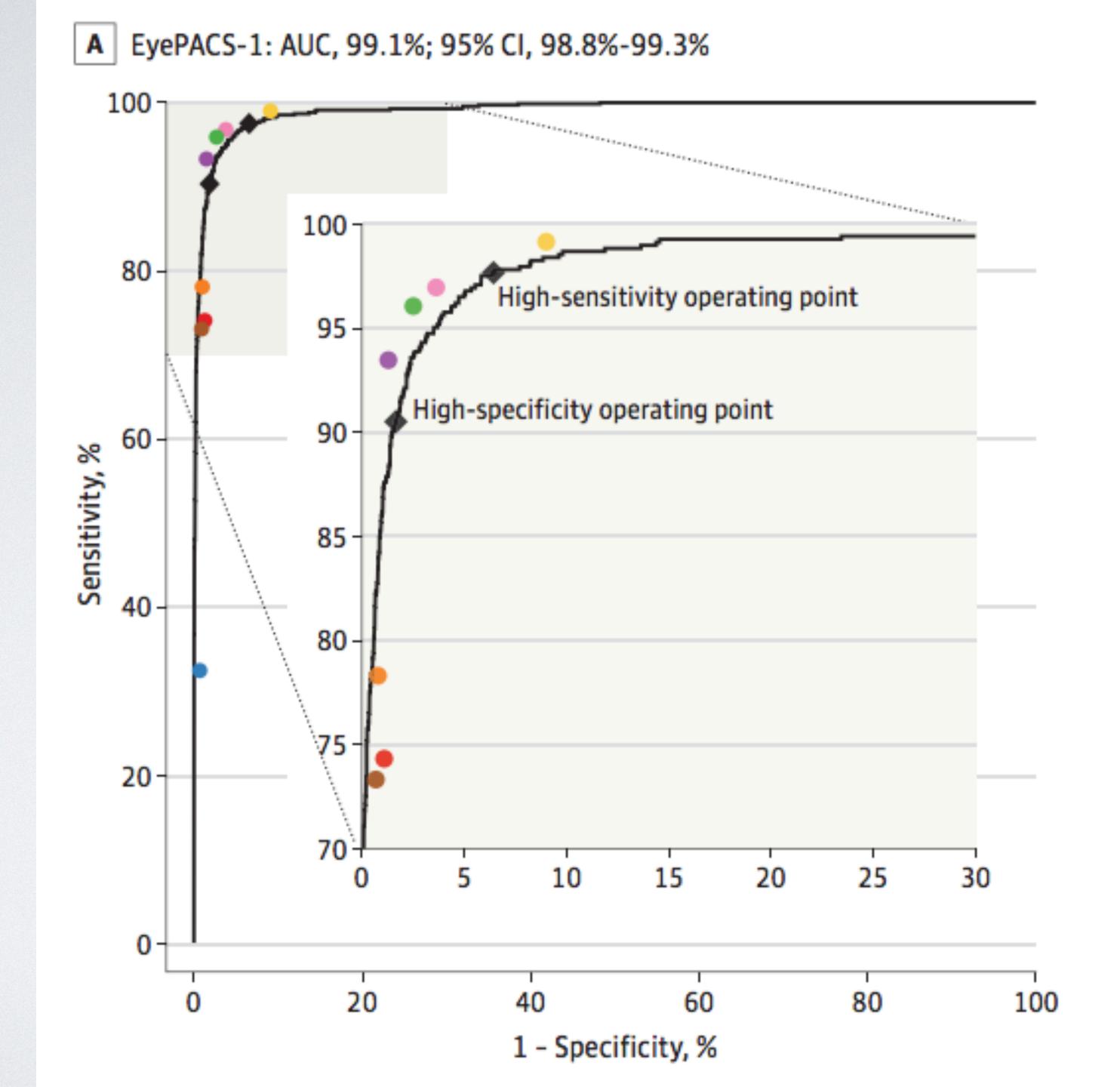
#### Lesion localization

Robust lesion localization achieved using multi-scale pixel and lesion-level descriptors



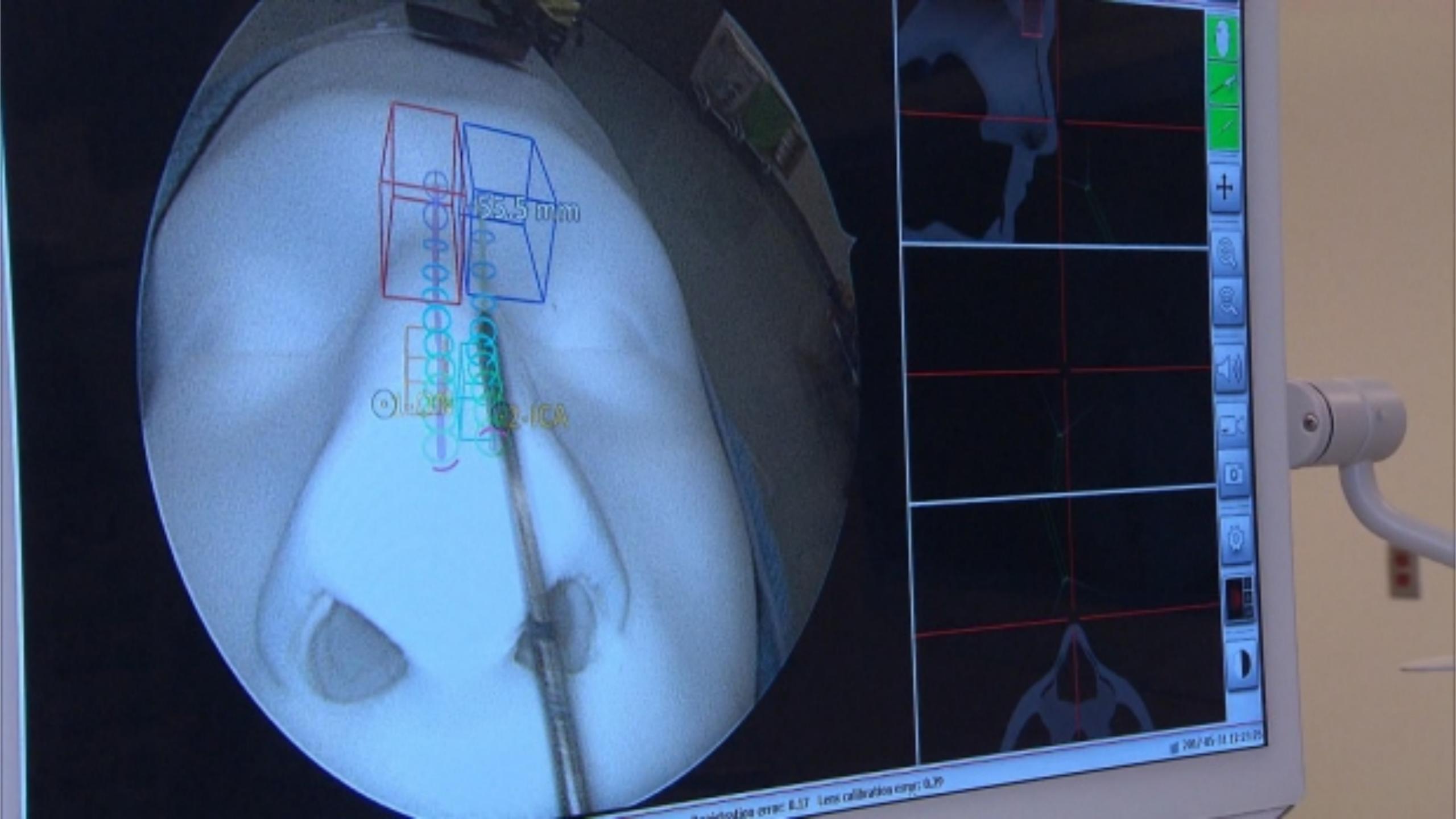
Original Image

Red lesion detected Bright lesions dectected



## FUTURE OF SURGERY

- Warn surgeons during surgery
- Faster identifying complications
- Reducing waiting times



## WHY AI?

- Cost vs Quality
- Computers are stupid
- But fast
- · So now it's the time to make them smart

## THANKYOU FOR YOUR TIME