

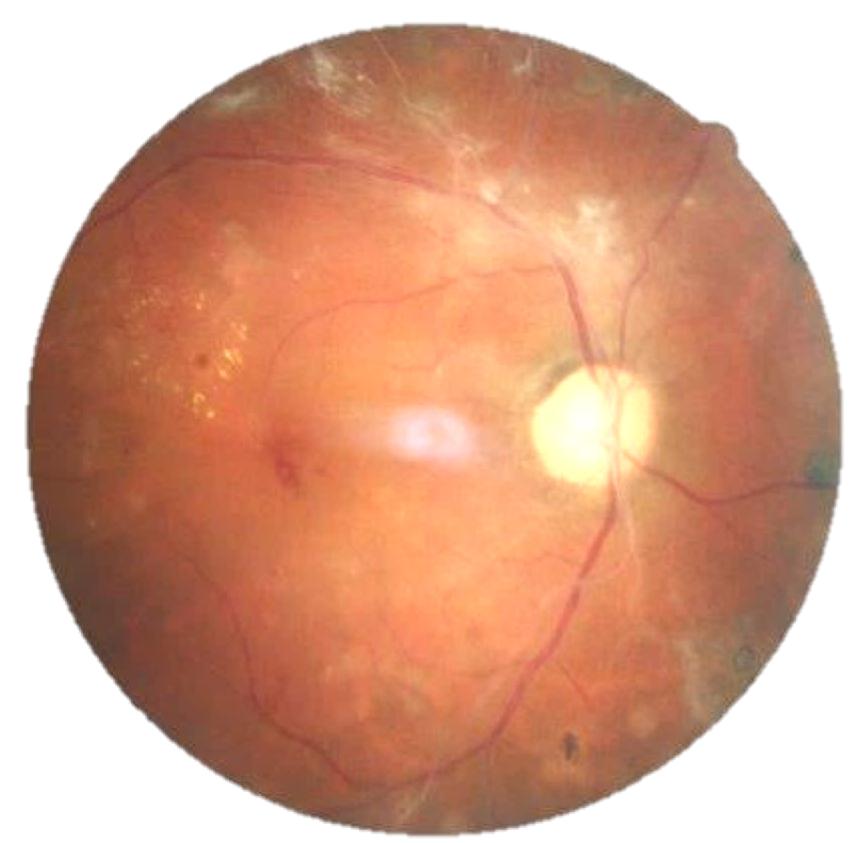
# Frontal midline theta predicts diagnosis style in a medical similarity judgement task

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## INTRODUCTION

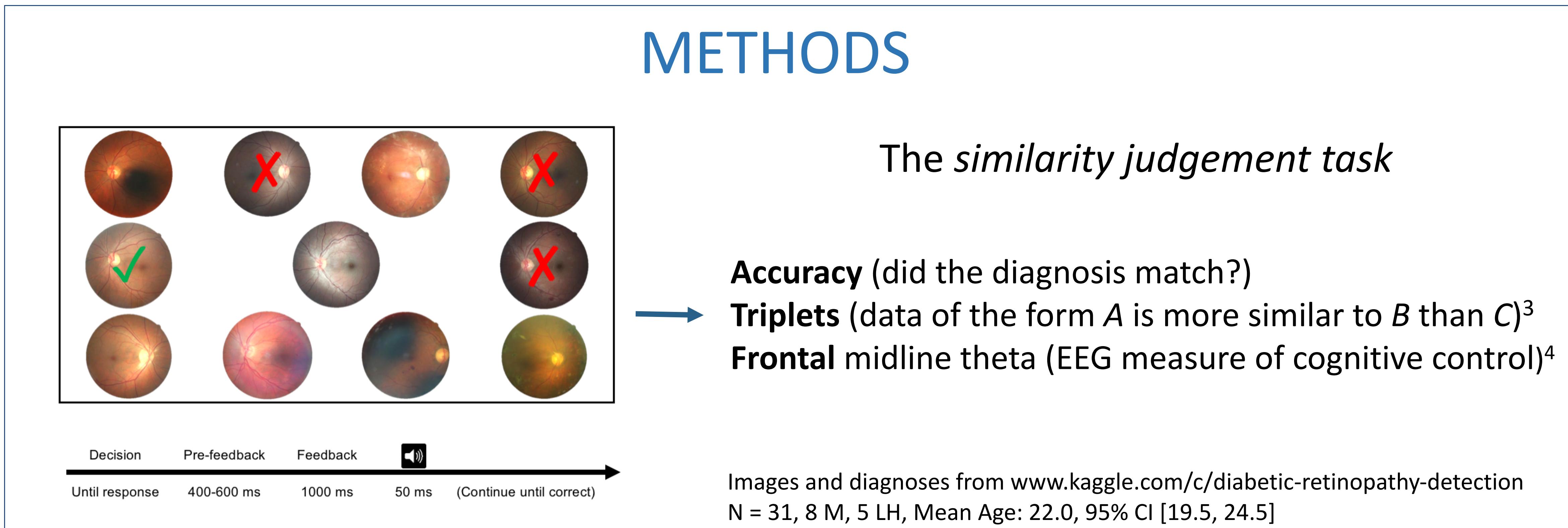


Diabetic retinopathy features<sup>1</sup>

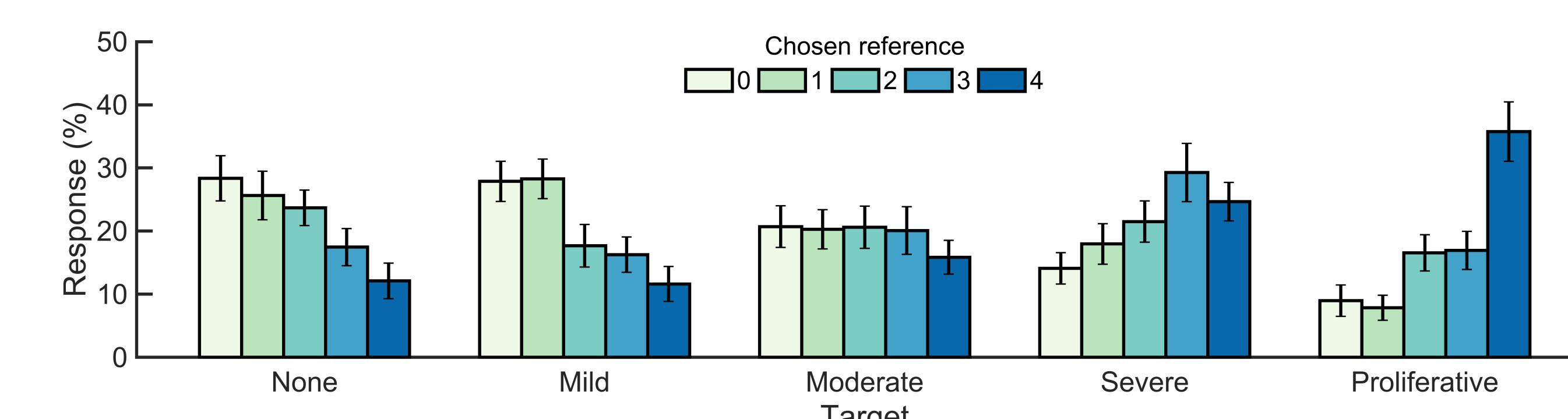
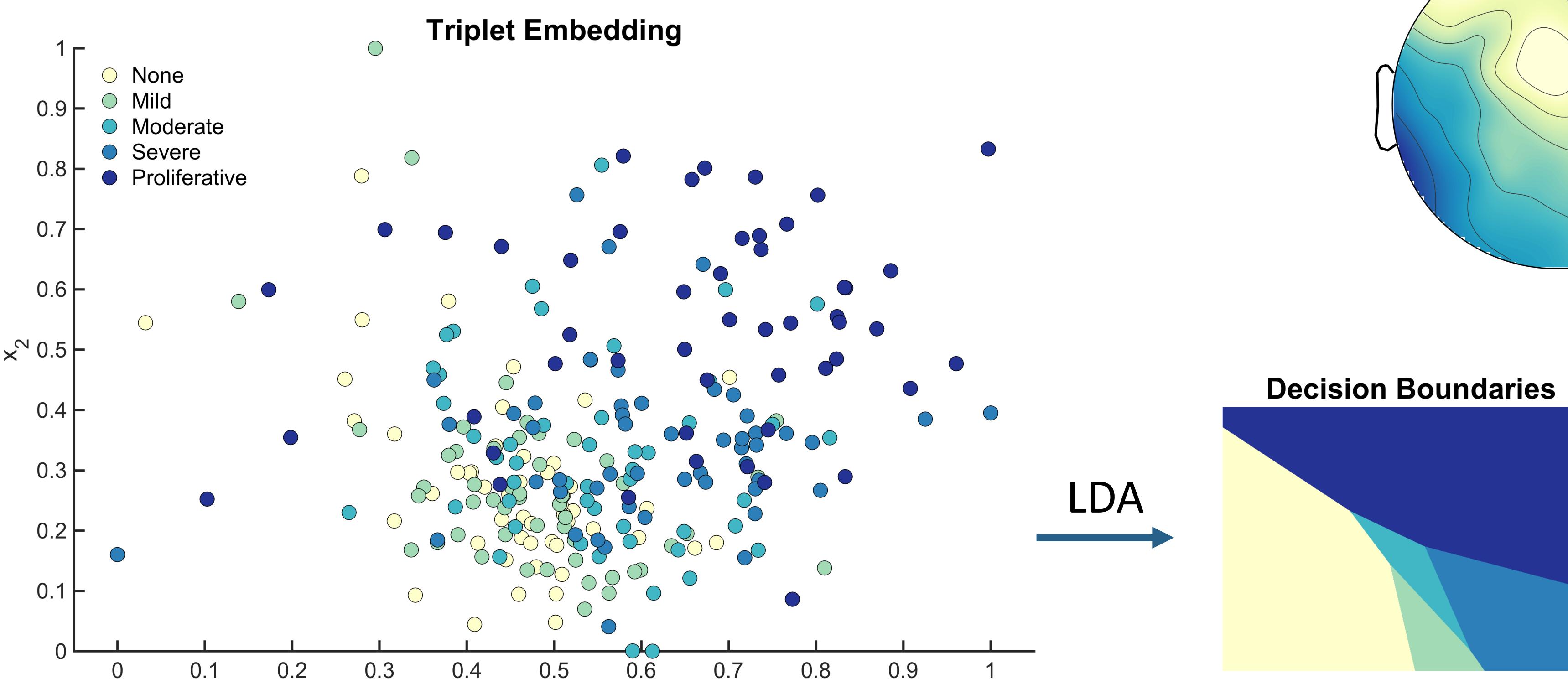
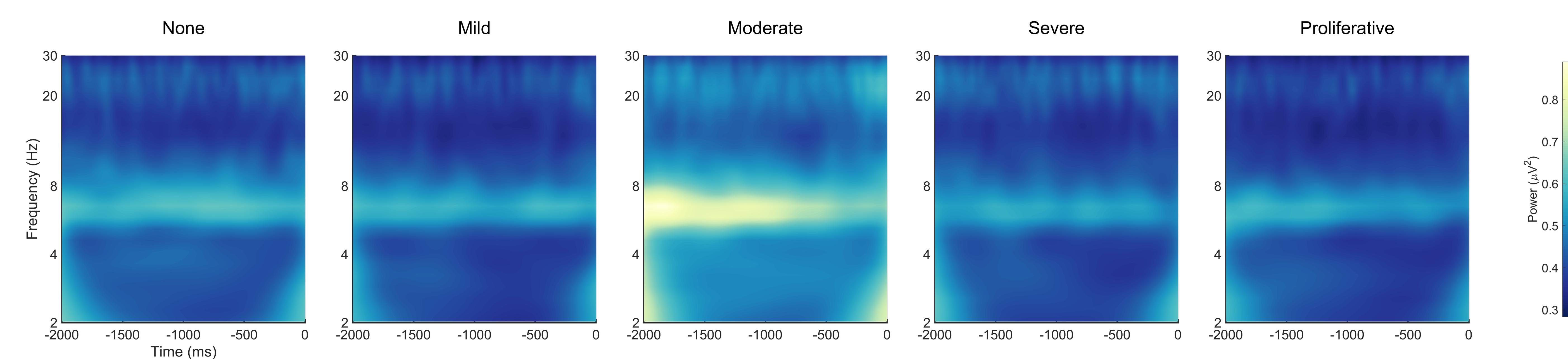
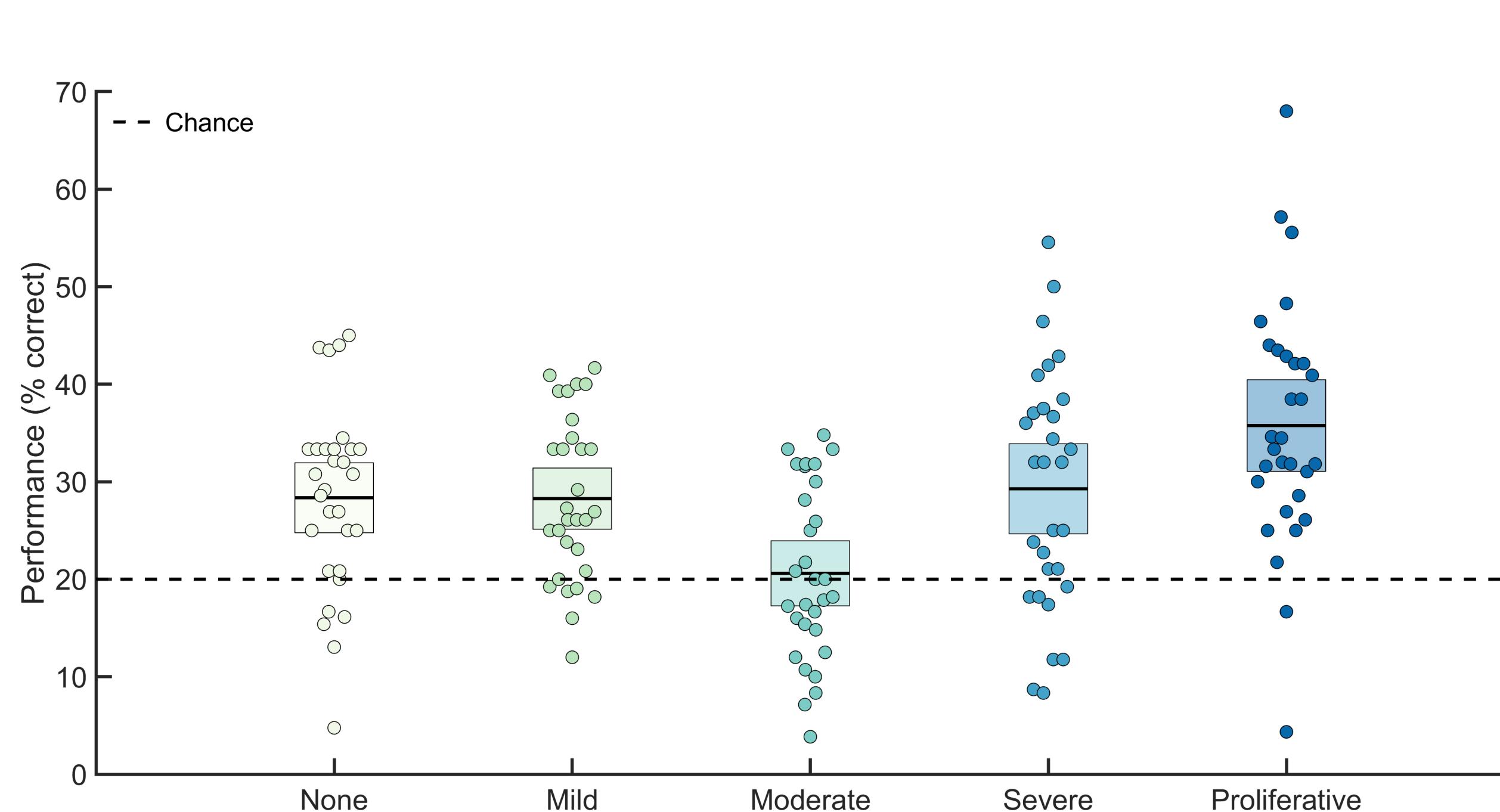
- Diabetic retinopathy is diagnosed via the examination of images
- Severity scale: none, mild, moderate, severe, proliferative
- Early-career MDs report low confidence in diagnosing diabetic retinopathy<sup>2</sup>. Why?

Rule-based  
learning  
(severity scale)

Implicit  
categorization  
(perceptual space)

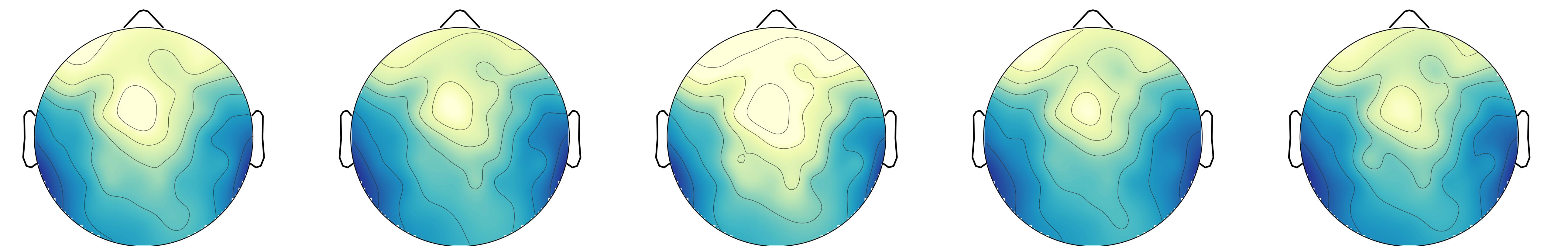


## METHODS



Chosen reference: 0 (white), 1 (light green), 2 (medium green), 3 (dark green), 4 (blue)

## RESULTS



## Conclusions

- Retinopathy diagnosis is challenging due to *perceptual overlap*
- Perceptual overlap is accompanied by enhanced cognitive control (as indexed by FMT)
- Next step: task optimization<sup>5</sup>

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