



**ASS. PROF. ZHICHAO WU**

# Wave 2026

# D2-S3

## MCQS

**MCQS – Advance Access Only for WAVE. Please submit answers **online** before 11.59pm AWST 23<sup>rd</sup> March**  
**OR**

**if you want a 7 Day Extension to complete ALL MCQS – opt in online for the extra time**

**The following 5 MCQS are from the presentation on Day 2 - Session 3 @ WAVE 2026.**

### **Artificial Intelligence in Eye Care – What Should You Be Aware Of?**

**Q.1) How have deep learning models for detecting referable diabetic retinopathy (DR) been typically developed?**

- a) By using collected information about clinical risk factors (e.g., HbA1c, duration of diabetes) to predict humans have labelled as referable DR or not
- b) By automatically processing images to derive features deemed important by experts to predict what humans have labelled as referable DR or not.
- c) By automatically extracting features from the images to predict what humans have labelled as referable DR or not.
- d) By automatically learning from vast amounts of images without human input to determine what referable DR should be.

**Q.2) Which of the following best describes what “oculomics” is?**

- a) A field that uses ocular imaging to detect eye diseases.
- b) A field that uses ocular imaging to provide insights into systemic health.
- c) A field that uses ocular imaging to predict a person’s demographic characteristics.
- d) A field that uses ocular imaging to predict a person’s genetic profile.

**Q.3) What is Optometry Australia’s position on who can be responsible for clinical decisions in eye care?**

- a) Health professionals
- b) Autonomous AI models
- c) Non-clinical staff, guided by AI tools
- d) Any of the above

**Q.4) How do current AI tools approved by the Therapeutic Goods Administration (TGA) for detecting eye diseases most typically work?**

- a) By asking you to upload your patient history and examination notes, to estimate the likelihood of different eye diseases being present.
  
- b) By asking you to describe what features you see on retinal images, to derive a clinical diagnosis and referral suggestion.
  
- c) By analysing retinal images, to determine the presence of eye diseases based on specific definitions used during its training process (e.g., referable AMD).
  
- d) By segmenting disease features or highlighting areas-of-interest on the image, to assist you with clinical decision-making.

**Q.5) What are some key questions to ask when seeking to understand the performance of an AI tool for detecting eye diseases?**

- a) Was it externally evaluated?
- b) How does it compare to clinicians or human experts?
- c) Has it been shown to work effectively for the population that I wish to use it for?
- d) All the above.

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