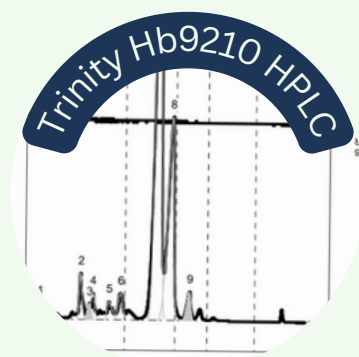
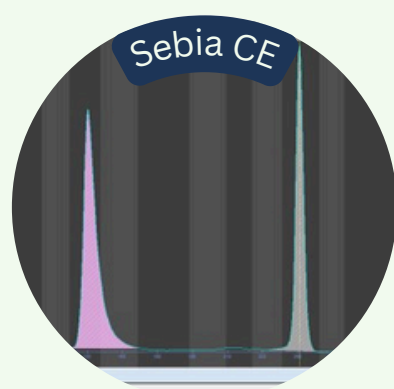
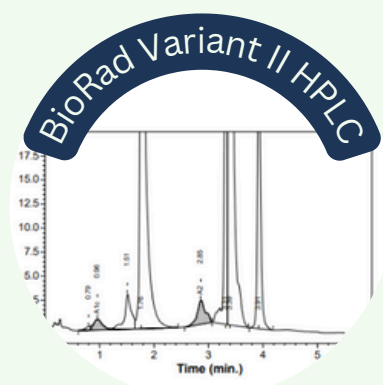
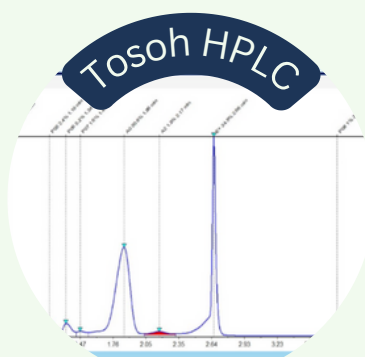


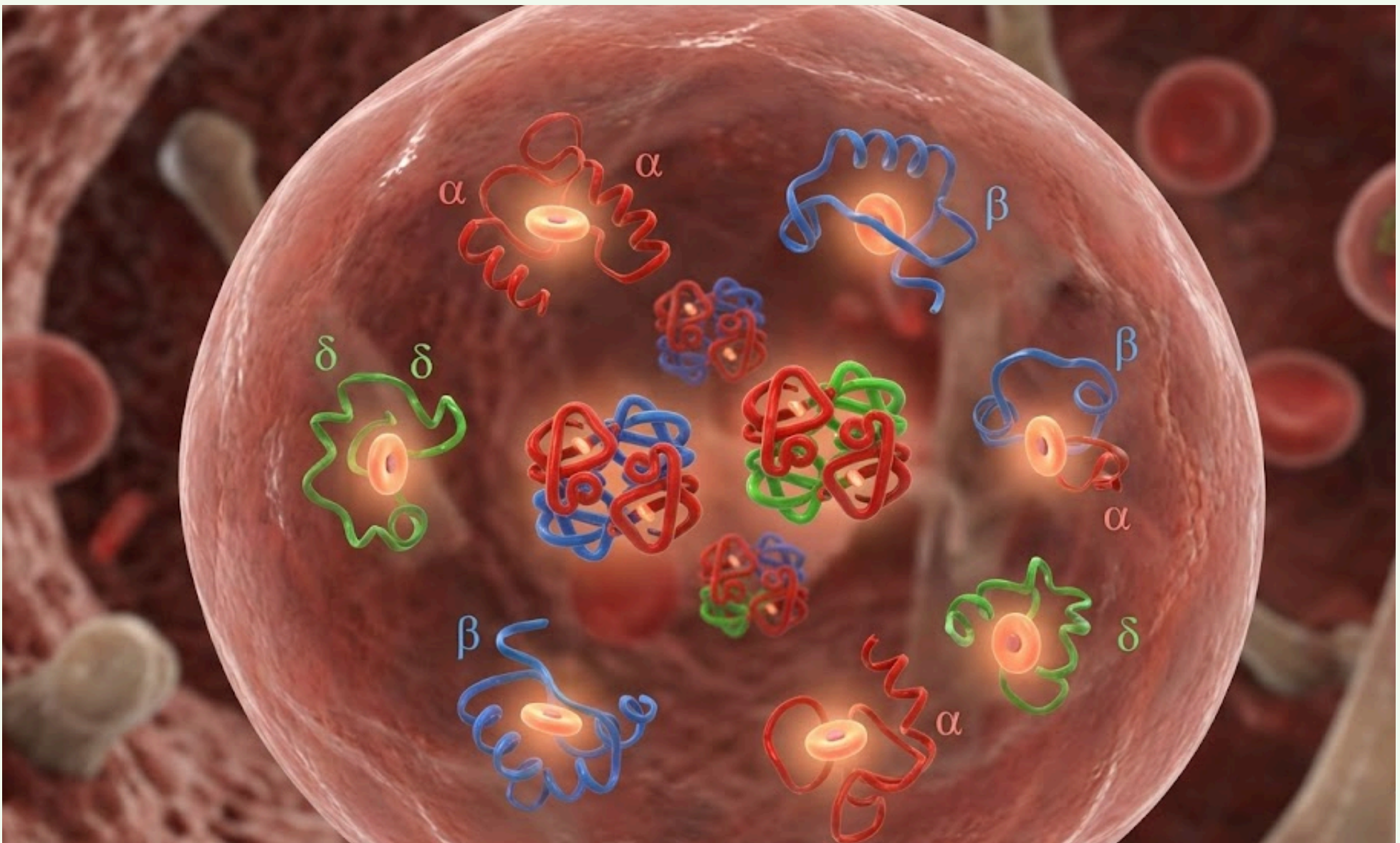
CASE OF THE WEEK

Haemoglobinopathy Testing
Laboratory Science
Quick Interpretation Challenge

*Let's figure it
out together*



THEORY QUESTION



Why is HbA₂ elevated in beta thalassaemia carriers but normal or reduced in iron deficiency anaemia, despite both conditions presenting with microcytic, hypochromic red cells?

- A** IRON DEFICIENCY INCREASES DELTA CHAIN PRODUCTION; BETA THALASSAEMIA DECREASES IT.
- B** BETA THALASSAEMIA CAUSES REDUCED BETA CHAIN SYNTHESIS, LEADING TO COMPENSATORY INCREASE IN ALPHA CHAIN PRODUCTION;
- C** BETA THALASSAEMIA CAUSES REDUCED BETA CHAIN SYNTHESIS, LEADING TO COMPENSATORY INCREASE IN DELTA CHAIN PRODUCTION; IRON DEFICIENCY IMPAIRS ALL GLOBIN CHAIN SYNTHESIS EQUALLY.
- D** HBA₂ MEASUREMENT IS UNRELIABLE IN IRON DEFICIENCY DUE TO HAEMOLYSIS.

*Comment
your answers
below*

Educational use only | No diagnostic or clinical advice | Cases anonymised as per local policy



I want to guide you through haemoglobinopathy testing.



Reshare this case to help others learn too.



Haemopaedia

**FOLLOW FOR WEEKLY CASE
STUDIES AND DISCUSSIONS.**



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Reshare this case to help others learn too.