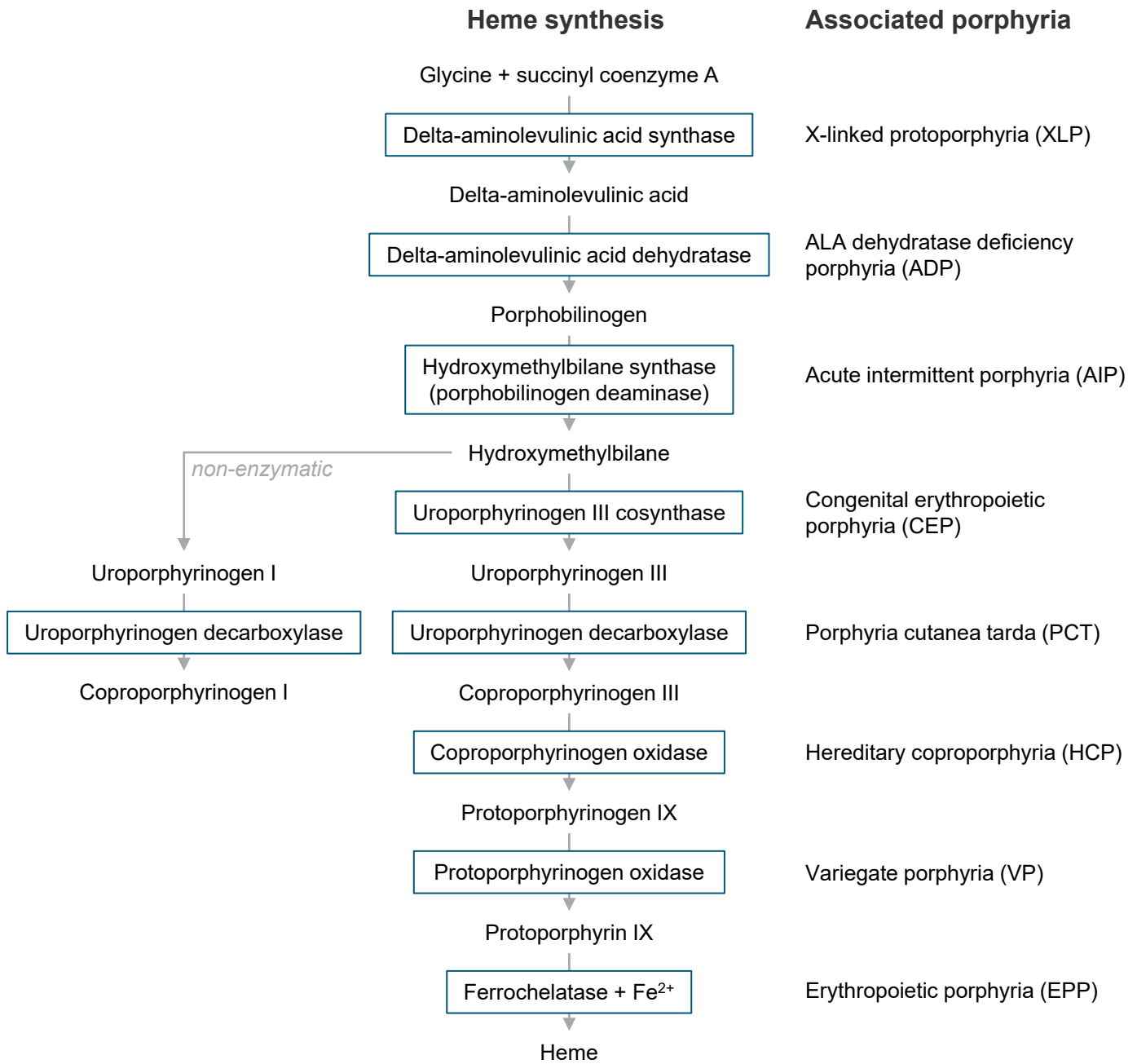


Figure 1. Porphyrrias Caused by Enzyme Deficiencies in the Heme Biosynthetic Pathway



ALA, delta-aminolevulinic acid.

Heptacarboxyl porphyrin, hexacarboxyl porphyrin, and pentacarboxyl porphyrin are intermediates between uroporphyrin and coproporphyrin.

This figure was developed by Quest Diagnostics based in part on references [1](#) and [2](#). It is provided for informational purposes only and is not intended as medical advice. A physician's test selection and interpretation, diagnosis, and patient management decisions should be based on his/her education, clinical expertise, assessment of the patient, and consultation with subject matter experts, if needed.