



Overview of Vitamin B₁₂- and Folate-dependent Reactions -

This figure is intended to give you a “big picture” view of the participation of both Vitamin B₁₂ and folate in metabolic reactions. Individual portions of this figure are covered in detail in the eight questions of this module:

- 1) Folate trapping” in a vitamin B₁₂ deficiency;
- 2) a reaction that uses both folate and B₁₂;
- 3) effect of folate-B₁₂ disruptions on neural membranes;
- 4) a second reaction requiring B₁₂;
- 5) folate in the synthesis of DNA;
- 6) folate in the synthesis of dTMP;
- 7) chemotherapy with 5-FU;
- 8) folate reduction and recycling.