



Figure 4. Principal components of folate and cobalamin metabolism as it relates to DNA synthesis, methylations, and the production of methionine from homocysteine. DHFR = dihydrofolate reductase; THF = tetrahydrofolate; TS = thymidylate synthase; dUMP = deoxyuridine monophosphate; dTMP = deoxythymidine monophosphate; MTHFR = methylene tetrahydrofolate reductase; MS = methionine synthase; SAM = S-adenosylmethionine (also AdoMet); SAH = S-adenosylhomocysteine (also AdoHcy).