

c. A full sneeze (AAH-pause-AHH-pause-AHH-pause-CHOO-relax)

2. Below, superimpose the oxyhemoglobin curves for two subjects, one diagnosed with anemia (7.5 g Hb/dL) and the other with a normal hemoglobin concentration (15 g Hb/dL) but with 50% carboxyhemoglobin poisoning.

a. What is the P_{aO_2} , hemoglobin saturation and oxygen content for the arterial blood of each subject?

b. What is the arterial P_{50} for each subject and what do they signify in terms of Hb_{O_2} and $HbCO_2$ binding affinities?

c. Assuming a 50% O₂ extraction, what is the Pa_{O₂}, hemoglobin saturation and oxygen content for the venous blood of each subject?

d. If you had your “druthers” which subject would you rather be and why?