

Anatomy and Physiology Reading Assignment
Due in lecture March 24

Beall et al. 2002

Download the above article from the course website and answer the following questions. Bring your computer printed answers to lecture and be ready to discuss them. Use your own words and do not use jargon that you do not understand:

1. What was the purpose of this study?
2. What is "hypobaric hypoxia"?
3. How have humans in the Andes adapted to hypobaric hypoxia?
4. How does hemoglobin concentration compare between high-altitude Ethiopians, Andeans, Tibetans and humans at sea level?
5. How does oxygen saturation compare between high-altitude Ethiopians, Andeans, Tibetans and humans at sea level?
6. What basic conclusions do the authors draw from these data (sum up in no more than two sentences)?
7. What possible mechanisms do the authors suggest might account for the high oxygen saturation in high-altitude Ethiopians?