

9.01 Study Questions

Lecture 25

1. List some of the measures taken by polygraph recordings from a sleeping person in a sleep laboratory.
2. Give examples of the dangers incurred by persons with certain sleep disorders.
3. Describe the difference between the two “preparations”, used in electrophysiological studies, called the *encephale isolé* and the *cerveau isolé*: What is the anatomical difference in location of the CNS transection? What is the difference in the state of the forebrain?
4. What are the raphé nuclei? (Where are the cells located, and what neurotransmitter do they contain?) What is the effect of destruction of these cells on sleep-waking behavior?
5. How do we know that there is a specific mechanism in the hindbrain for causing the atonia of REM sleep?
6. List several of the “neuromodulator” systems of the brain. What do you know about their functions?