Effects of Alcohol and HIV Infection on the Central Nervous System

1) HIV-infected patients develop an alcohol use disorder at a rate that is approximately _____ as that of the general U.S. population.
   a) the same
   b) 2 times as high
   c) 3 times as high
   d) 4 times as high

2) CD4+ cells are not found in the brain.
   a) True
   b) False

3) Which is a type of cell in the CNS that provides structural and functional support for neurons?
   a) oligodendrocytes
   b) microglia
   c) macroglia
   d) astrocytes

4) Which treatment regimen can reduce the patient's risk of opportunistic infections commonly associated with HIV infection and HADC?
   a) EEAR
   b) HAART
   c) LIIPS
   d) LIVRR

5) For the treatment in the previous question to be most effective, patients must adhere to the schedule approximately _____ of the time.
   a) 75%
   b) 85%
   c) 95%
   d) 100%

6) The _____ region carries the heaviest HIV load of all brain structures.
   a) thalamus
   b) hippocampus
   c) pons
   d) basal ganglia

7) Which measures mainly water?
   a) MRI
   b) MRS
   c) CAT scan
   d) PET scan
8) Compared to nonalcoholics, the brains of chronic alcoholics are
   a) smaller
   b) lighter
   c) more atrophied
   d) all the above

9) Which is thought to be potentially reversible with abstinence?
   a) neuron loss
   b) size reduction of neurons

10) Which is thought to be more specific in measuring tissue damage?
    a) MRS
    b) MRI

11) Which protein building block is found almost exclusively in mature nerve cells?
    a) Cr
    b) NAA
    c) Cho
    d) mIono

12) Studies found that the recovery of brain structures and function is greater and more rapid
    in _____ abstinent alcoholics.
    a) male
    b) female
    c) older
    d) younger

13) Which brain region becomes involved only during advanced stages of HIV disease?
    a) subcortical
    b) midbrain
    c) cortical
    d) forebrain

14) The studies reviewed found little evidence that chronic alcohol abuse exacerbated the
    CNS effects of HIV infection in the treated patients.
    a) True
    b) False