

### Topic: Radiation Biology

1. The Acute Radiation Syndrome (ARS) term which refers to damage of the brain and spinal canal is called the: ?

- A. Dromal syndrome
- B. Hematopoietic syndrome
- C. GI syndrome
- D. CNS syndrome

Answer:

D. Following a significant radiation exposure death may occur. This is termed Acute Radiation Syndrome (ARS). Central Nervous System (CNS) syndrome is a result of radiation damaging the CNS; which is, the brain and spinal cord.

### Topic: Anatomy - Spine

2. How many vertebrae are present in the normal cervical spine?

- A. 5 vertebrae
- B. 7 vertebrae
- C. 9 vertebrae
- D. 12 vertebrae

Answer:

B. There are seven vertebrae in the normal cervical spine.

### Topic: Treatment Planning -MRI

3. In a T1 weighted MRI image of the brain fat appears \_\_\_\_\_ and cerebrospinal fluid (CSF) \_\_\_\_\_ appears?

- A. Dark, Dark
- B. Dark, Bright
- C. Bright, Bright
- D. Bright, Dark

Answer:

D. T1 MRI images are characterized by bright fat and dark water (CSF).