

Divine Intervention Episode 44

USMLE Anatomy Series Part 1

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Some PGY1

1

Assuming a patient has wrist drop, what is the lesioned brachial plexus nerve? Is there a HY extensor in the UE that stops functioning with this nerve lesion? What is the classic humeral fracture pattern associated with this nerve lesion? Where is sensation lost “finger wise” with this nerve lesion? As trivia (for a Peds shelf or Step 2 CK), what would your dx be in a child with generalized purpura/petechiae and no radius palpated in the LUE? What is The Saturday Night Palsy??

2

What is the damaged nerve in a patient with a surgical neck fracture of the humerus? What are the 2 HY muscles supplied by this nerve? Is there a particular blood vessel this nerve runs with? Space transmitting this blood vessel + nerve? Shoulder dislocation that screws up this nerve? Sensory association with this nerve? Associated roots of the brachial plexus?

3

Exits for the 12 cranial nerves from the skull. Location of the different cranial nerves in the brainstem. Gland CN7 cuts through on its way out of the brain? What are the cranial nerves that cut through the cavernous sinus (compare with the superior orbital fissure)? What are the structures that run through the “middle” of the cavernous sinus?

As an aside->Brainstem localization algorithm.

4

The Epiploic foramen. Function? Borders (anterior, posterior, superior, inferior)?

5

What is the CN that carries the general sensation of taste from the anterior $\frac{2}{3}$ of the tongue (+ associated ganglion)? What is the nerve that carries the special sensation of taste from the anterior $\frac{2}{3}$? What is the CN that handles both the general and special sensation of taste for the posterior $\frac{1}{3}$ of the tongue? What is the CN that handles most of the motor innervation of the tongue? What is the 1 exception to this rule? How does the tongue deviate in an associated CN lesion?

6

A patient with a history of Marfan's (or tertiary syphilis or EDS or a long hx of smoking) presents with 6 months of hoarseness. A PA/Lateral CXR is consistent with an ascending aortic aneurysm that includes the arch. What is the underlying mechanism behind the patient's hoarseness? What is the CN that supplies most sensory information to the larynx?

7

A 35 yo F G2P1 at 40 weeks gestation is in labor. She has a long history of poorly controlled T2DM. The fetus is currently at +2 station with a decision made to proceed with forceps delivery. To obtain adequate pain control around the perineum, vulva, and vagina with the use of local anesthesia, what is the most appropriate nerve block procedure? What is the anatomic landmark that is classically used with this procedure?

8

Coronary arteries are perfused during what phase of the cardiac cycle?

9

A surgery resident is tasked with performing a mastectomy with axillary lymph node dissection on a 40 yo F with biopsy proven invasive ductal carcinoma. What are the 2 HY nerves that may be injured during this procedure and how would these present clinically?

10

A 23 yo M is mistakenly struck in the head during a baseball game with a bat. He initially loses consciousness for 2 minutes but was able to finish the game. 2 hrs later he is rushed to the ED after the sudden onset of repeated fits of vomiting. Diagnosis? Bleeding vessel? Common finding on imaging? Classic presentation of subdural hematomas (bleeding vessels, shape on imaging, exam scenarios)?