

Slot#	Case#	Category	History	Question	Answers/Notes
1	162	Neuroanatomy	Site - Frontal Lobe	(1) Is the outer (lighter) layer gray or white matter? (2) What is the name of a brain infolding? (3) How many layers are traditionally recognized in the cortex? [name them for brownie points]	
2	162	Neuroanatomy	Site- Hippocampus	(1) What are the 3 basic components of the hippocampus formation? (2) Which part of the hippocampus proper is most susceptible to hypoxia? (3) What nearby structure looks like Napoleon's hat?	
3	162	Neuroanatomy	Site - Hippocampus	?	
4	162	Neuroanatomy	Site - Thalamus	(1) Name the football shaped nucleus (found under the thalamus)? (2) What are the 2 main types of thalamic neurons?	
5	162	Neuroanatomy	Site - Basal Ganglia	Name the white matter bundles found in the gray matter neuropil?	
6	162	Neuroanatomy	Site - Amygdala	What syndrome may result from lesion in both amygdalae?	
7	162	Neuroanatomy	Site - Cingulate Gyrus	What does the cingulate gyrus lie on top of?	
8	162	Neuroanatomy	Site - Midbrain	(1) What is the name of the space that contains CSF on the slide? (2) What is the name of the paired structure posterior to this space? (3) What structure contains those darkly staining cells and what iron-containing nucleus is immediately posterior to that structure? (4) What cranial nerve is seen exiting the midbrain on the anterior aspect?	
9	162	Neuroanatomy	Site - Pons	(1) What is the CSF-containing space called at this level? (2) Which pigmented nucleus is adjacent to this space and what does it produce? (3) What electrolyte abnormality manifests at this spinal cord level?	
10	162	Neuroanatomy	Site - Medulla	What structure is found anteriorly in the medulla?	
11	162	Neuroanatomy	Site - Cerebellum	What are the layers of the cerebellum?	

12	162	Neuroanatomy	Site - Dura mater	Using only histology, how can you determine the inner and outer aspects of the dura mater?
13	117	Neuroanatomy	Site - Cerebellar smears	You are examining cerebellar smears from a 6-year-old with a cerebellar tumor. How can you differentiate between a medulloblastoma smear and normal cerebellar parenchyma?
15	740	Neuroanatomy	Site - Pineal Gland	
16	104	Neuroanatomy	Site - Infant brain	What are the clusters of small round blue cells in the deep white matter?
17	777	Glial Tumors	54-yo F, left frontal lobe tumor	What is the characteristic molecular alteration that indicates the improved prognosis in this tumor type?
18	645	Glial Tumors	8-yo F, rt posterior temporal lobe mass	What are the characteristic histologic features that are specific for this tumor?
20	171	Glial Tumors	54-yo F, mass in 4th ventricle	What is the classic presenting symptom associated with this lesion? What is the WHO grade?
21	224	Glial Tumors	16-yo F, large cerebellar mass	What WHO grade would you assign this tumor? Why?
23	381	Glial Tumors	17-yo, non-enhancing cerebellar tumor	What is the characteristic radiologic appearance of this tumor? If this tumor involved both optic nerves, what syndrome would you want to suggest the presence of?
24	347	Glial Tumors	5-yo F, right temporoparietal lobe tumor	What is the WHO grade? What stains would you use to confirm your diagnosis?
25	979	Glial Tumors	33-yo M, non-enhancing temporal lobe mass	What histologic finding indicates the proper WHO grade in this case? What molecular abnormalities would indicate a better prognosis in this case?
26	432	Glial Tumors	19-yo M, lateral ventricular mass	What is the WHO grade? Why?
27	814	Glial Tumors	32-yo M, non-enhancing left frontal lobe mass	What is the WHO grade? How would you definitively prove that this is not reactive gliosis?
28	915	Glial Tumors	61-year-old male with mass in the cerebellar peduncle	What is the WHO grade? What molecular testing results would indicate an aggressive tumor with a poor prognosis?

29	62	Meningeal Tumors	52-yo F, homogenously-enhancing mass overlying L frontal lobe		
30	94	Meningeal Tumors	24-yo M, parietal lobe mass, the subjacent cortex is thickened in a "plaque-like" fashion	What syndrome is associated with this rare pathologic entity?	
31	155	Meningeal Tumors	34-yo F, frontal lobe dural-based mass		
32	157	Meningeal Tumors	46-yo M, L sphenoid wing mass		
33	391	Meningeal Tumors	53-yo M, homogenously-enhancing mass overlying the parietal lobe		
34	810	Meningeal Tumors	81-yo F, R frontal region tumor	What is the WHO grade for this tumor and what is the other subtype with the same grade?	
35	24	Posterior Fossa Tumors	8 yo M with cerebellar mass	What syndrome is assoc c the desmoplastic version of this lesions?	
36	52	Posterior Fossa Tumors	35 yo F with cystic mass in cerebellum, with an enhancing mural nodule	(1) What syndrome is this lesion assoc c and why? (2) What lesion must be ruled out and what 2 stains will help do this?	
37	150	Posterior Fossa Tumors	2 yo M with cerebellar mass	What is the gene that is characteristically lost?	
38	256	Posterior Fossa Tumors	16 yo F with cystic mass in the cerebellum, with an enhancing mural nodule		
39	737	Posterior Fossa Tumors	53 yo M with posterior fossa tumor		
40	437	Sellar Tumors	61 yo F sellar region tumor		
41	247	Sellar Tumors	19 yo M mass in pituitary stalk	What is in the differential diagnosis for SALL4 positive disease?	
43	273	Sellar Tumors	48 yo M mass in suprasellar region		
44	63	Non-Native CNS Tumors	52 yo F c frontal lobe dural-based mass		
45	71	Non-Native CNS Tumors	22 yo F c diffuse leptomenigeal enhancement		
46	252	Non-Native CNS Tumors	32 yo F c uterine mass and an occipital lobe parenchymal hemorrhage		
47	265	Non-Native CNS Tumors	62 yo M c several areas of white - matter T2/FLAIR signal abnormality		
48	266	Non-Native CNS Tumors	62 yo M c ring-enhancing mass in R parietal lobe		
49	277	Non-Native CNS Tumors	55 yo F c L cerebral hemispheric parenchymal hemorrhage		

50	1070	Non-Native CNS Tumors	79-year-old male with left temporal lobe tumor		
51	114	Skeletal Muscle Pathology	42 yo F c hyper CKemia, myalgias, and positive pANCA		
52	152	Skeletal Muscle Pathology	42 yo F c proximal weakness x 6 yrs. Pt's mother had "muscle problems"		
53	208	Skeletal Muscle Pathology	3 yo F c muscle weakness and elevated CK		
54	215	Skeletal Muscle Pathology	66 yo M c asymmetric prox muscle weakness, mildly elevated CK; no significant systemic dz		
55	295	Skeletal Muscle Pathology	82 yo M c LE weakness		
56	306	Skeletal Muscle Pathology	25 yo M c calf weakness		
57	161	Skeletal Muscle Pathology	28-year-old F with history of progressive extremity weakness, abnormal FLAIR signal on brain MRI		
60	55	Nerve Sheath Tumors	37 yo M c mass involving a lumbar spine outlet foramen		
61	61	Nerve Sheath Tumors	47 yo F c mass involving a thoracic spine outlet foramen		
62	96	Spinal Region Tumors	52 yo F c mass in the cauda equina region		
63	122	Spinal Region Tumors	52-year-old male with mass in the cauda equina region	(1) What is the characteristic pattern seen? (2) How do these things behave?	
64	237	Spinal Region Tumors	42 yo M c mass involving the spinal cord		
65	260	Spinal Region Tumors	64 yo M c mass in the cerebellopontine angle - no involvement of the foramen		
66	293	Spinal Region Tumors	65 yo F c mass in the clivus		
67	1064	Spinal Region Tumors	10-year-old male with left parietal skull mass		
68	32	Neurodegeneration	72 yo M c hx of rapidly-progressing cognitive decline, pyramidal symptoms, and ataxia. Brain was diffusely firm and gliotic		

69	48	Neurodegeneration	68 yo M c long hx of progressive ataxia, Parkinsonism, and autonomic dysfunction. No significant cognitive decline. Gross examination revealed prominent cerebellar, medullary, and pontine atrophy, as well as slight nigral depigmentation		
70	174	Neurodegeneration	74 yo F c hx progressive cognitive decline and significant personality disturbances (not as severe as case #201). No significant gross abnormalities seen.		
71	201	Neurodegeneration	62 yo F c prolonged (>10 yr) hx of cognitive decline, dominated by prominent personality disturbances (paranoid, hoarding). Brain showed prominent atrophy of anterior temporal and frontal lobes		
74	207	Neurodegeneration	64 yo F with progressive cognitive decline, apraxia, and the curious claim that her left arm belonged to someone else. "It's not mine!", she would emphatically state when asked... Only slight frontal atrophy noted at brain cutting		
77	213	Neurodegeneration	58-year-old male with progressive cognitive decline, primarily characterized by memory loss		
78	795	Neurodegeneration	79-year-old female with dementia, including difficulty swallowing and gaze palsy		
80	821	Neurodegeneration	66-year-old female with a resting tremor, progressive memory loss, visual hallucinations		
81	480	Neurodegeneration	85-year-old demented female with large right-sided brain parenchymal hemorrhage		

82	170	Infectious Disease	56-year-old female with a history of lung transplant several years prior to death. Infection noted in lungs at autopsy		
84	95	Infectious Disease	53-year-old female with a third ventricular mass, hydrocephalus. Recent travel to Mexico		
85	106	Infectious Disease	17-year-old male with rapidly progressive decline in mental status and brain edema, died five days after presentation to hospital. No focal lesions seen at autopsy		
86	112	Infectious Disease	56-year-old female with HIV, slightly thickened meninges		
87	115	Infectious Disease	2-year-old female who presented with fever and signs of meningismus		
88	805	Infectious Disease	52-year-old male, prison inmate, with night sweats, weight loss, and cranial neuropathies		
89	2	Miscellaneous	63-year-old alcoholic male, who presented to ED with altered mental status. After correction of hyponatremia, had progressive decline in mental status. Comatose prior to death.		
90	23	Miscellaneous	58-year-old female with history of widespread, somewhat random motor and sensory deficits.		
91	38	Miscellaneous	38-year-old male with history of seizures, found dead in bed		
92	51	Miscellaneous	1-year-old male with hydrocephalus		
93	73	Miscellaneous	38-year-old male with Chiari type I malformation		
94	172	Miscellaneous	11-month-old male infant, born at 29 weeks EGA		
95	187	Miscellaneous	52-year-old female with AHLE, treated with corticosteroids for presumed PRES		

96	60	Miscellaneous	62-year-old male who was found unresponsive, revived after prolonged cardiopulmonary resuscitation		
97	957	Miscellaneous	14-year-old female with posterior temporal lobe mass		
98	166	Miscellaneous	38-year-old male with cutaneous facial vascular abnormality restricted to V2 distribution		
99		Neuroanatomy	19-year-old female with small brown nodule identified immediately posterior to superior colliculi at brain examination		
100	160	Miscellaneous	54-year-old male with a remote history of a motor vehicle collision		