	Primary Site	Histology and Behavior	Clinical Grade	Pathologic Grade		
	<u>Case # 1:</u> Upper Outer Quadrant Left Breast Mass, Excision: Papillary carcinoma, solid type with micro-invasion. Tumor completely excised. 2 sentinel lymph nodes negative for tumor.					
Case #1						
NOTES	NOTES					
	ub-areolar Breast Mass, Excision: Intra entinel lymph nodes negative for tum	· · · · · · · · · · · · · · · · · · ·	orm, clear cell, micro-papillary, and lo	bular features. Tumor completely		
Case #2						
NOTES						
Case #3: Descending Colon @ 75cm: Biopsy followed by complete resection - adenocarcinoma, poorly differentiated, with mucinous features arising in a large 8cm adenomatous polyp with invasion through the muscularis mucosae into the pericolic fat. 4 of 8 mesenteric lymph nodes are positive for metastatic adenocarcinoma. pT3 pN2a						
Case #3						
NOTES	NOTES					
	east UOQ mass excision: mixed squar noma in situ, micropapillary, papillary					
Case #4						
NOTES						
Case #5: Breast UOQ mass excision: mixed squamous cell carcinoma and small cell carcinoma, extending to the excisional margin with rare foci of high grade ductal carcinoma in situ, micropapillary, papillary and solid architectures, nuclear grade 2/3 identified. Tumor size 7.5 x 6.8 x 6cm. No nodes identified.						
Case #5						
NOTES						
Case #6: Resection RUL Lung shows well differentiated lepidic predominant invasive bronchoalveolar adenocarcinoma with mucinous features, neg margins						
Case #6						
NOTES						

<u>Case #7:</u> Right Occipital Brain Mass, biopsy: High-grade neuroendocrine carcinoma, large cell type. Immunohistochemistry stains for CK 7, CK 20, TTF-1, P40,					
synaptophysin, chromogranin, and CD 56. CK 7: strongly and diffusely positive CK 20: negative TTF-1: strongly and diffusely positive P40: negative					
Synaptophysin: strongly and diffusely positive; Chromogranin: strongly and focally positive; CD 56: strongly and diffusely positive					
Case #7					
NOTES					
Case #8: Rig cell type	ght Lung Hilus FNA: NSCLC (non-smal	l cell carcinoma of lung). ALK+, EGRF-	+, ROS1 neg, PD-L1 positive – favor ac	denocarcinoma of probable la rge	
Case #8					
NOTES					
Case #9: Right Lung FNA: NSCLC (non-small cell carcinoma of lung). No molecular testing performed					
Case #9					
NOTES					
Case 10: Optic Nerve Biopsy – optic pathway glioma in patient with neurofibromatosis type 1 (NF1) and near total vision loss				SS	
Case #10					
NOTES					
Case #11: Biopsy of Scalp – spindle cell neoplasm favor malignant fibrous histiocytoma, low grade					
Case #11					
NOTES					
<u>Case #12:</u> Appendix Biopsy and Biopsy Peritoneal Nodule – low grade appendiceal mucinous neoplasm (LAMN) with loss of lamina propria and muscularis mucosae and submucosal fibrosis. Low grade pseudomyxoma peritoneii.					
Case #12					
NOTES					
Case 13: Right lower lobe lung, wedge – grade1 minimally invasive adenocarcinoma with predominantly lepidic pattern, non-mucinous					
Case #13					
NOTES					

Case #14: Biopsy right tonsil with squamous cell carcinoma. p16+, HPV+					
Case #14					
NOTES					
Case #15: L	eft tonsil biopsy with well-differentia	ted squamous cell carcinoma with ke	ratinizing features.		
Case #15					
NOTES					
Case #16: E	Biopsy right true vocal cord positive fo	r squamous cell carcinoma. HPV test	panel was negative for all types/subt	ypes. p16 testing was also negative.	
Case #16					
NOTES					
Case #17: E	Biopsy followed by gross total excision	left parietal lobe with WHO Grade 4	glioblastoma multiforme of IDH-wild	type variety	
Case #17					
NOTES					
Case #18: Excision cerebellopontine angle with glioblastoma multiforme IDH-mutant type, WHO Grade 4					
Case #18					
NOTES					
Case #19: Radical Left Nephrectomy with kidney showing 7.5cm papillary clear cell renal cell carcinoma, Grade 2 of 4 (WHO/ISUP). No lymph nodes identified.					
Case #19					
NOTES					
Case #20: Hepatic Flexure Tumor Resection shows 6cm large cell neuroendocrine carcinoma (NEC/NET). IHC stains positive for CD56, synaptophysin, CDX-2 and chromogranin). Ki-67 shows a high proliferative index (66%).					
Case #20					
NOTES					

Bonus Case #1	
QUESTIONS/COMMENTS	
Barra Casa #2	
Bonus Case #2	
QUESTIONS/COMMENTS	
QUESTIONS/COMMENTS	
Bonus Case #3	
QUESTIONS/COMMENTS	
Bonus Case #4	
QUESTIONS/COMMENTS	

Bonus Case #5 QUESTIONS/COMMENTS			
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