## **CNS Cancer Reference Handout**

<mark>CNS Gliomas</mark>		<mark>CNS Glioma: Tx</mark>				
Glioma Types: [Glioma = derived from glial cell]		Grade I	Surgery	1		
Oligodendroma Often grade II-III Notable mutations: IDH <sup>better prognosis</sup> , 1p/19q co-deletion <sup>better prognosis</sup> Histology: "fried egg" appearance Imaging: Bright on flair, no contrast enhancement		Grade II/III	Surgery +/- Adjuvant ChemoRT			
Astrocytoma Often grade II-III Notable mutations: IDH <sup>better prognosis</sup> , ATRX Types: Low-grade (Grade I), diffuse (Grade II), anaplastic (Grade III)			1. PCV	(P) Procarbazine (C) Lomustine (V) Vincristine	2. Temozolomide (TMZ)	
Glioblastoma Always grade IV Notable mutations: IDH <sup>better prognosis</sup> , MGMT methylation <sup>better prognosis</sup> Histology: Necrosis, high mitotic activity, vascular proliferation Imaging: "butterfly" pattern; ring enhancement, necrosis		Grade IV Surgery preferred: usually unresectable	TMZ +	RT	<b>Other/if POD:</b> 1. TTF "tumor treating field" 2. Bevacizumab	
CNS Tumor Grading: GRADE I: Slow growing Often cured with surgery alone	<b>GRADE III:</b> Rapidly growing Unlikely cured with surgery alone	Meningioma General: Non-malignant Arise from dura brain/ Imaging: dural tail = "I				
<b>GRADE II:</b> Slow growing Unlikely cured with surgery alone	<b>GRADE IV:</b> Most aggressive	Treatment:	<b>Treatment:</b> Observe if small (<3 cm) Surgical resection		<b>Treatment:</b> HD MTX (minimum 3.5 g/m2) <sup>contraindicated in CKD</sup> R-MPV (Rituximab, MTX, Procarbazine, Vincristine) Steroids RT	