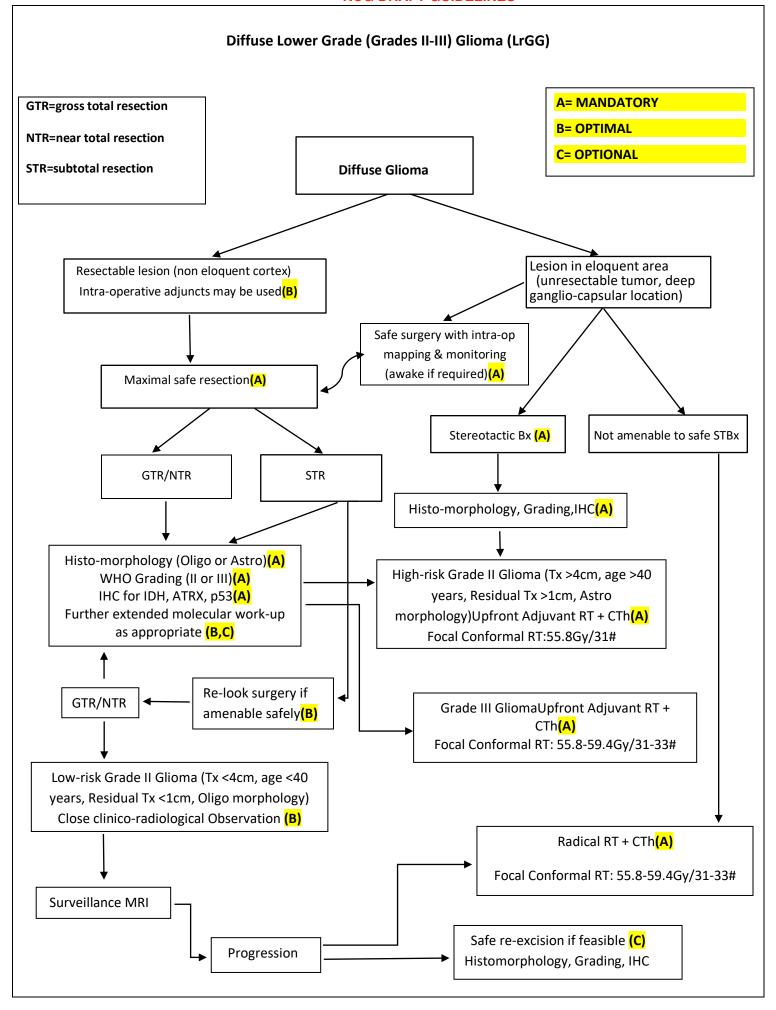
Non-Diffuse Circumscribed Glioma (Pilocytic Astrocytoma/DNET/Ganglioglioma/PXA/Glioneuronal Tumor/Neuro-Epethelial Tumor NOS) Typical imaging of features non-diffuse circumscribed glioma Resectable lesion (non eloquent cortex) Lesion in eloquent area Intraoperative adjuncts may be used to (unresectable tumor, deep ganglio-capsular location) improve extent of resection (B) Safe surgery with intra-op mapping & monitoring (awake if required)(A) Maximal safe resection(A) Debulking with GTR/NTR large residual tumor left behind Stereotactic Biopsy Not amenable to STB (STB)(A) Histo-morphology and WHO grading(A) Molecular markers as appropriate (B) Re-surgery if amenable safely(A) Radical RT: 54Gy/30#/6wks(A) Progression Chemotherapy is preferred in younger patients Close clinico-radiological observation(B) (<12 years) with pilocytic Repeat surgery astrocytoma(B)involving optico-chiasmatichypothalamic axis **GTR**=gross total resection A= MANDATORY NTR=near total resection **B= OPTIMAL** C= OPTIONAL RT=radiotherapy *NF-1 with optic pathway glioma with typical imaging- no biopsy is required *NF-1 pts with uncommon sites and atypical imaging features - biopsy should definitely be considered *BRAF fusion & mutation as appropriate (REFER TO PATHOLOGY SECTION) *SEGA in pts with Tuberous Sclerosis is a separate entity and should betreated with mTOR inhibitors(B)

Recommended chemotherapy regimens in Pediatric Low-Grade Glioma

Drugs	Dose	Days and Route
Regimen A- 52 weeks durat	ion	•
Carboplatin	550mg/m ² or 18mg/kg	Day 1 IV every 3 weekly
Vincristine	1.5mg/m ² or 0.046mg/kg	Day 1,8 and 15 IV for 13 weeks
		Day 1 only after that till 52
		weeks
	OR	
Regimen B- 52 cycles given	every week	
Vinblastine	6mg/m ²	Day 1 only weekly IV
	OR	
Regimen C- PCV Regimen- (6-9 cycles every 6-weekly)	
Procarbazine	100mg/m ²	Day 8 -21 orally
Vincristine	1.5mg/m ²	Day 8 and 29 IV
Lomustine	100mg/m ²	Day 1 only orally
	OR	
Regimen D- Bevacizumab±	Irinotecan: Recurrence/Progressio	n (6-12 cycles every 2-weekly)
Bevacizumab	5-10mg/kg	Day 1 only IV
Irinotecan	125mg/m2	Day 1 only IV



Chemotherapy regimens for Diffuse LrGG

Concurrent chemotherapy during RT

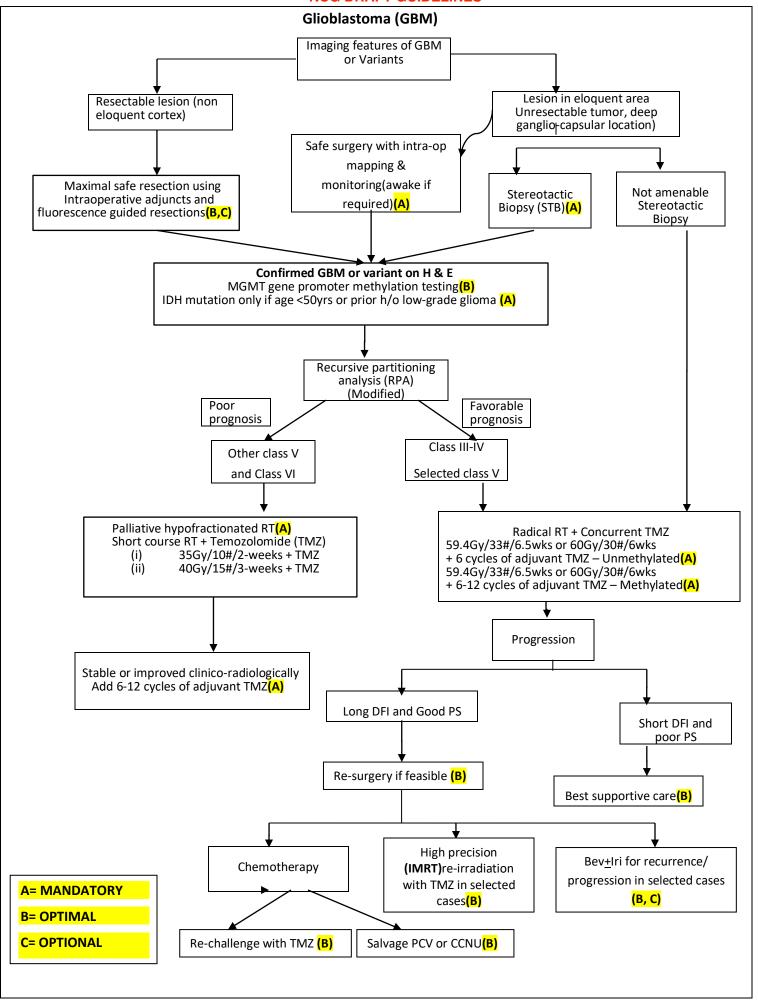
Temozolomide (TMZ): 75mg/m2 per orally daily throughout the course of RT with anti-emetic and PCP prophylaxis

Adjuvant chemotherapy following RT

Temozolomide: 150-200mg/m2 D1-D5 per orally cycled 4-weekly for 12 cycles

Alternative adjuvant chemotherapy regimen

Drugs	Dose	Days and Route
RTOGPCV Regimen (6 cycles every 6-weekly)		
Procarbazine	100mg/m ²	Day 8 -21 orally
Vincristine	1.5mg/m ²	Day 8 and 29 IV
Lomustine	100mg/m ²	Day 1 only orally
	OR	
MRC-UK PCV Regimen (6 cycles every 6-weekly)		
Procarbazine	100mg/m ²	Days 1-10 orally
Vincristine	1.5mg/m ²	Day 1 only IV
Lomustine	100mg/m ²	Day 1 only orally
OR		
Single agent CCNU (6 cycles every 6-weekly)		
CCNU	100mg/m2	Day 1 only orally



Chemotherapy regimens for GBM

Concurrent chemotherapy during RT

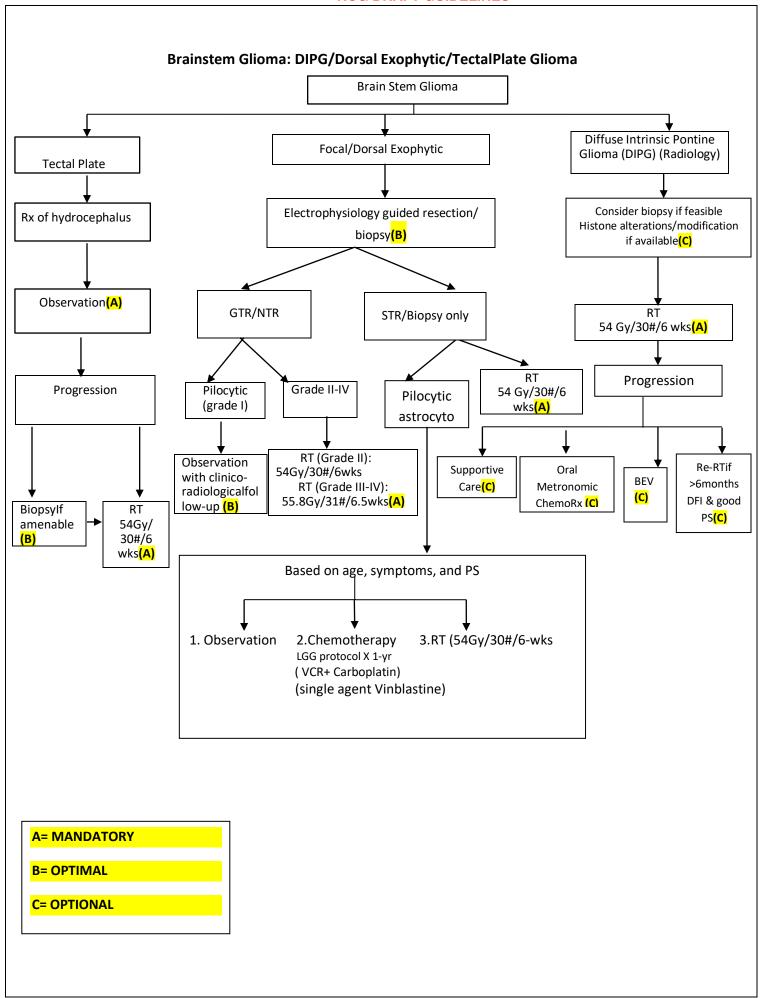
Temozolomide (TMZ): 75mg/m2 per orally daily throughout the course of RT with anti-emetic and PCP prophylaxis

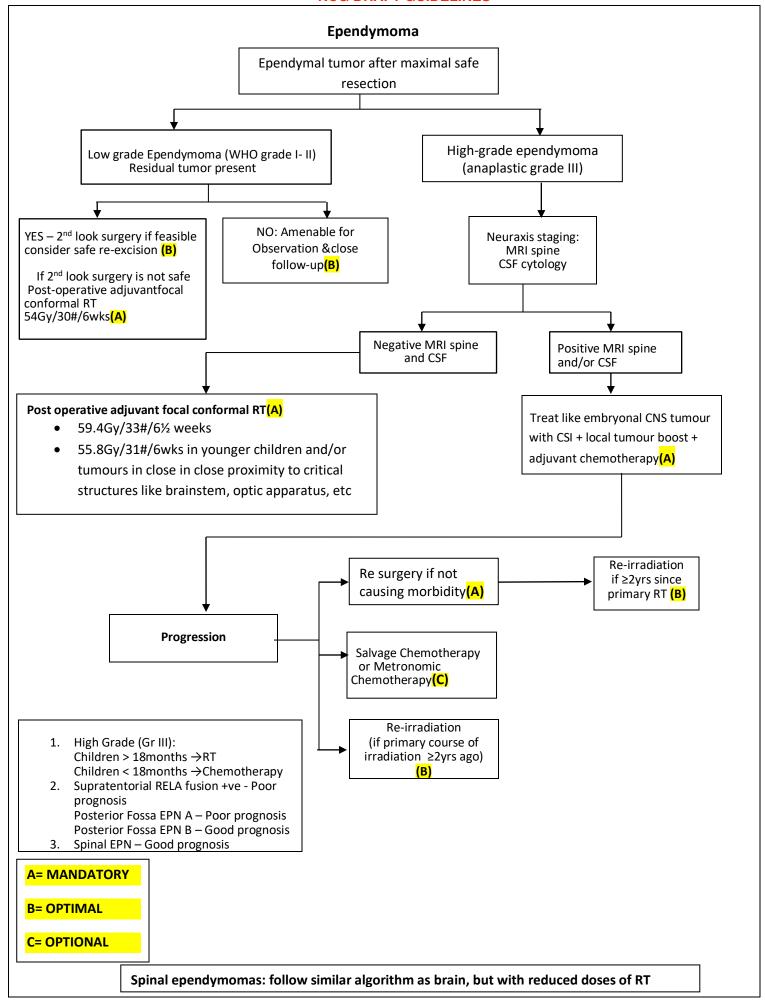
Adjuvant chemotherapy following RT

Temozolomide: 150-200mg/m2 D1-D5 per orally cycled 4-weekly for 6-12 cycles

Salvage chemotherapy regimens for recurrent/progressive GBM

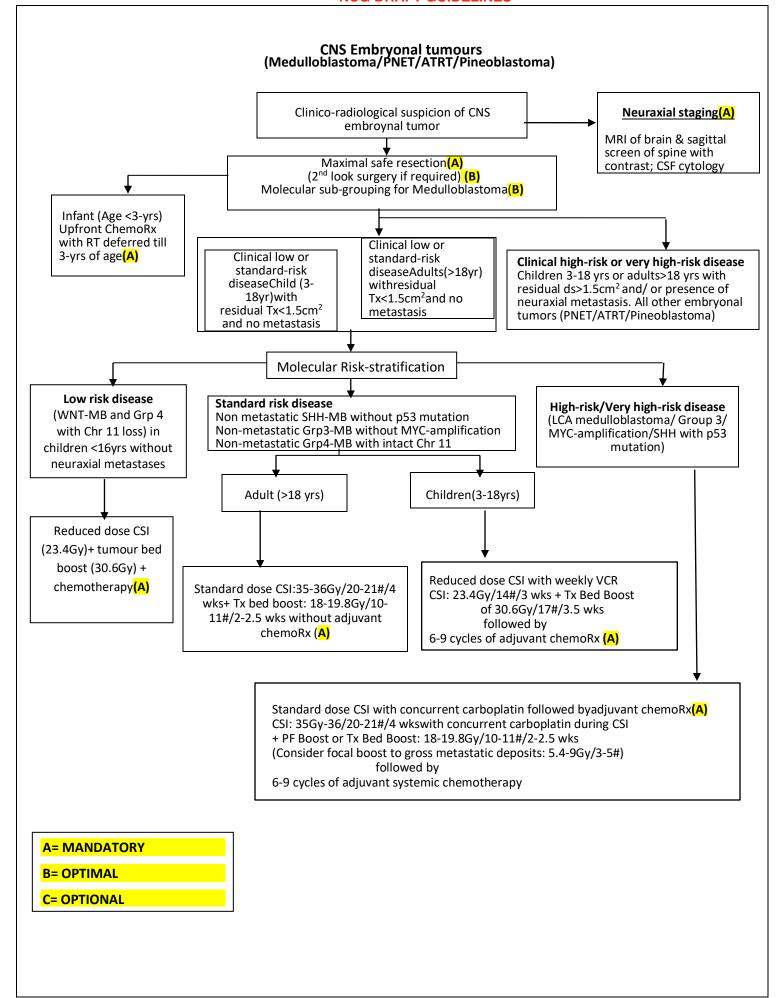
Drugs	Dose	Days and Route	
RTOG-PCV Regimen (6 cycles every 6-weekly)			
Procarbazine	100mg/m ²	Day 8 -21 orally	
Vincristine	1.5mg/m ²	Day 8 and 29 IV	
Lomustine	100mg/m ²	Day 1 only orally	
	OR		
MRC PCV Regimen (6 cycles ever	y 6-weekly)		
Procarbazine	100mg/m ²	Days 1-10 orally	
Vincristine	1.5mg/m ²	Day 1 only IV	
Lomustine	100mg/m ²	Day 1 only orally	
	OR		
Salvage CCNU (6 cycles every 6-v	veekly)		
CCNU	100mg/m2	Day 1 only orally	
OR			
Bevacizumab± Irinotecan: (6-12 cycles every 2-weekly)			
Bevacizumab	5-10mg/kg	Day 1 only IV	
Irinotecan	125mg/m2	Day 1 only IV	





Recommended chemotherapy regimens in Ependymoma

Drugs	Dose	Days and Route
Baby Brain Protocol	•	
Fo	or infants (<3 years): every 4-w	eekly for 12 cycles
Cyclophosphamide	1000mg/m ²	Day 1 only IV
Carboplatin	565mg/m ²	Day 1 only IV
Etoposide	150mg/m ²	Days 1-3 IV
	Salvage Chemothe	rapy
Regimen A- VCE chemoth	nerapy (every 3-weekly for 6 cy	rcles)
Vincristine	1.5mg/m ²	Day 1 only IV
Cisplatin	30mg/m ²	Days 1-3 IV
Etoposide	150mg/m ²	Days 1-3 IV
	OR	
Regimen B- ICE chemoth	erapy (every 3-weekly for 6 cyc	cles)
Ifosfamide	1500mg/m ²	Days 1-5 IV
Carboplatin	600mg/m ²	Day 1 only IV
Etoposide	100mg/m ²	Days 1-3 IV



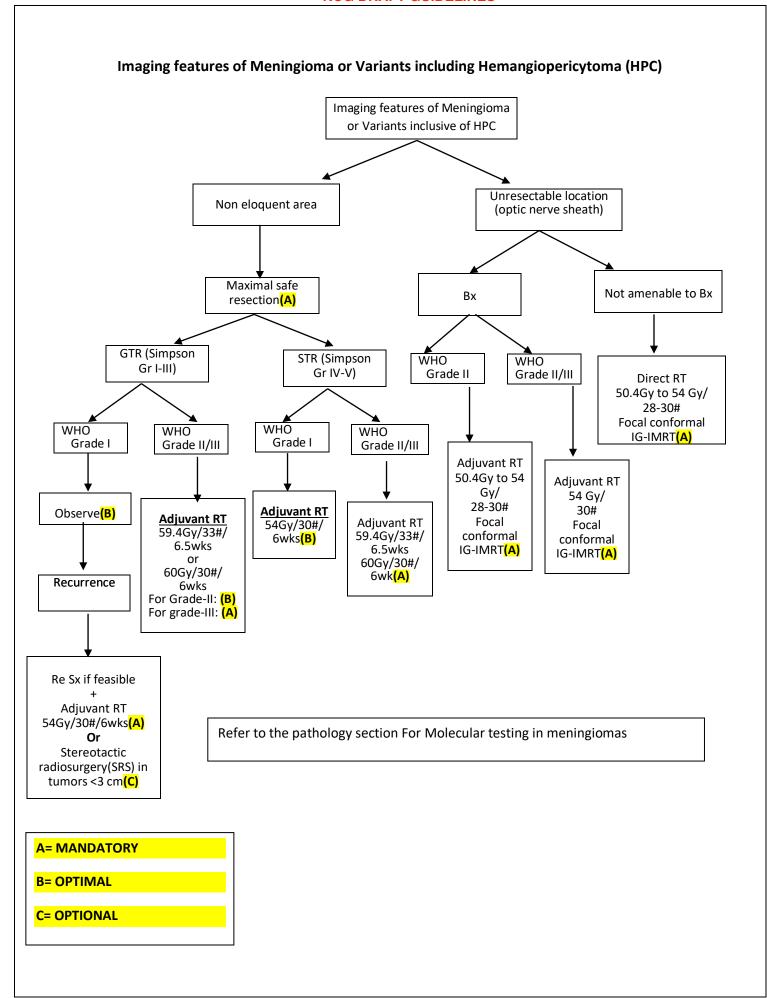
Chemotherapy regimen for CNS Embryonal Tumors

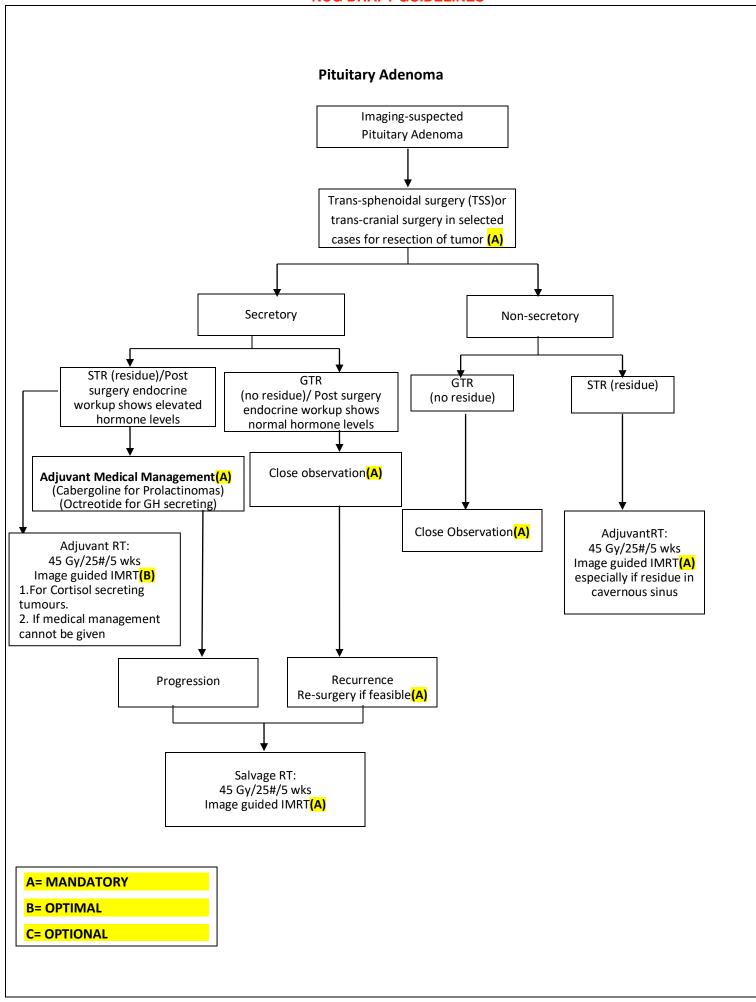
Concurrent chemotherapy during RT

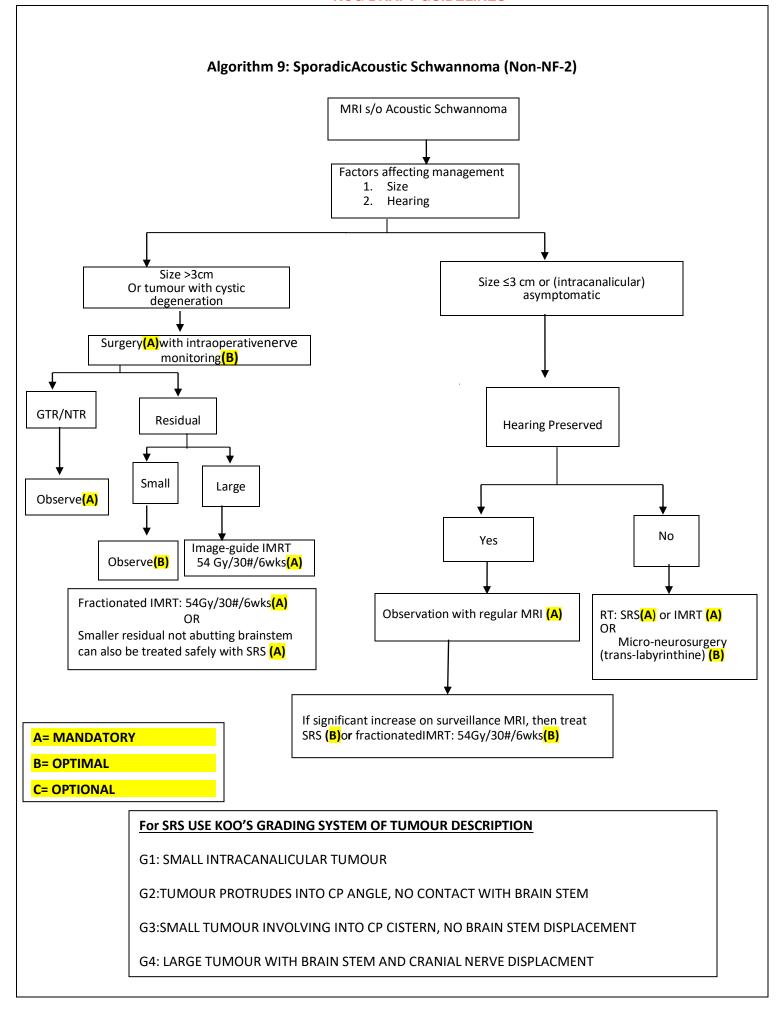
- 1. Standard-risk disease: Inj Vincristine 1.5mg/m² IV weekly for 6-7 weeks during RT
- 2. High-risk/very high-risk: Inj Carboplatin 35mg/m2 IV daily for 1st 15 days (of CSI) 1-4 hours prior to RT

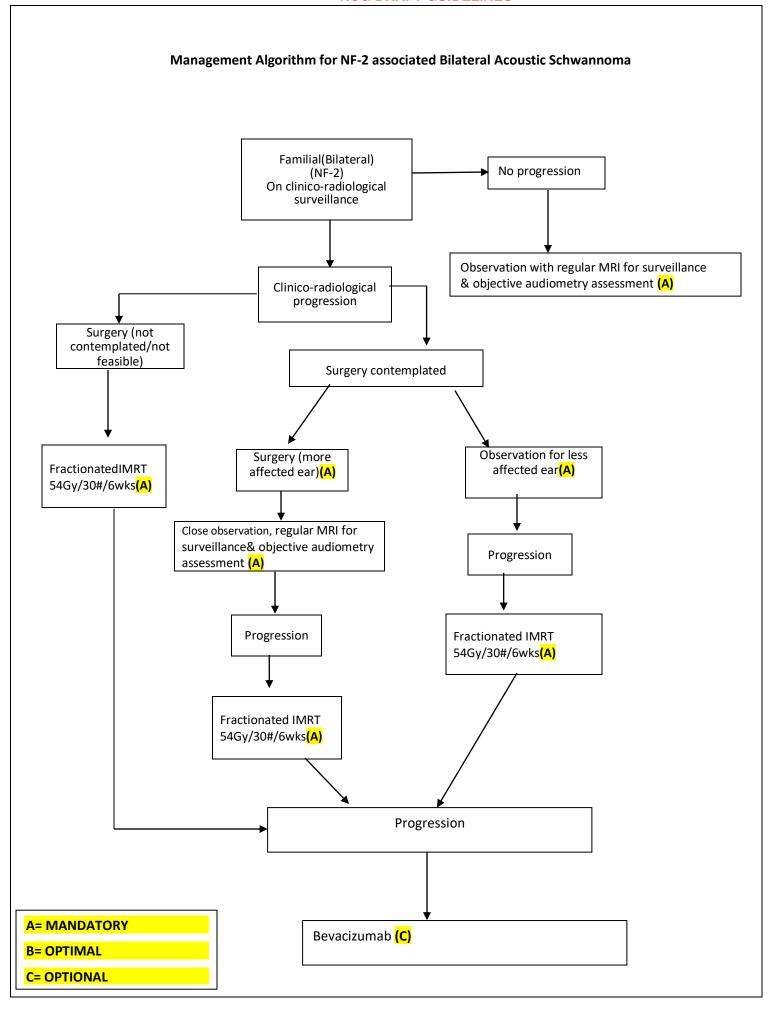
Adjuvant systemic chemotherapy regimens (any

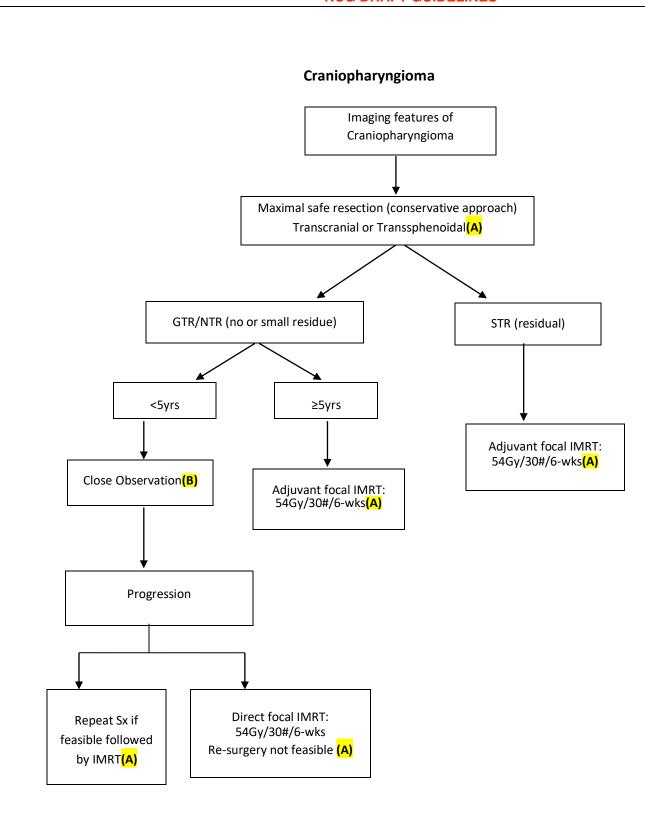
Drugs	Dose	Days and Route
	For children (>3-years) and	d adults
Regimen A- Packer's (6-9 cy		
Cisplatin	75mg/m ²	Day 1 only IV
Lomustine	75mg/m ²	Day 1 only orally
Vincristine	1.5mg/m ²	Days 1,8 and 15 IV
	OR	
Regimen B- Packer's (6 cycle	es every 4-weekly)	
Cisplatin	75mg/m ²	Day 1 only IV
Cyclophosphamide	1000mg/m ²	Days 1 and 2 IV
Vincristine	1.5mg/m ²	Days 1,8 and 15 IV
	OR	
SJMB96 Protocol (4-cycles e	every 4-weekly)	
Cisplatin	75mg/m ²	Day 1 onlyin alternate cycle IV
Cyclophosphamide	2000mg/m ²	Days 2 and 3 IV
Vincristine	1.5mg/m ²	Day 1 only IV
To be followed by stem cell	rescue after each cycle	
	OR	
CET Protocol (6 cycles every	3-weekly)	
Cisplatin	75mg/m ²	Day 1 onlyin alternate cycle IV
Cyclophosphamide	1000mg/m ²	Days 1 and 2 IV
Vincristine	1.5mg/m ²	Days 1 and 8 IV
For i	nfants (<3 years): every 4-wee	kly for 12 cycles
Baby Brain Protocol		
Cyclophosphamide	1000mg/m ²	Day 1 only IV
Carboplatin	565mg/m ²	Day 1 only IV
Etoposide	150mg/m ²	Days 1-3 IV



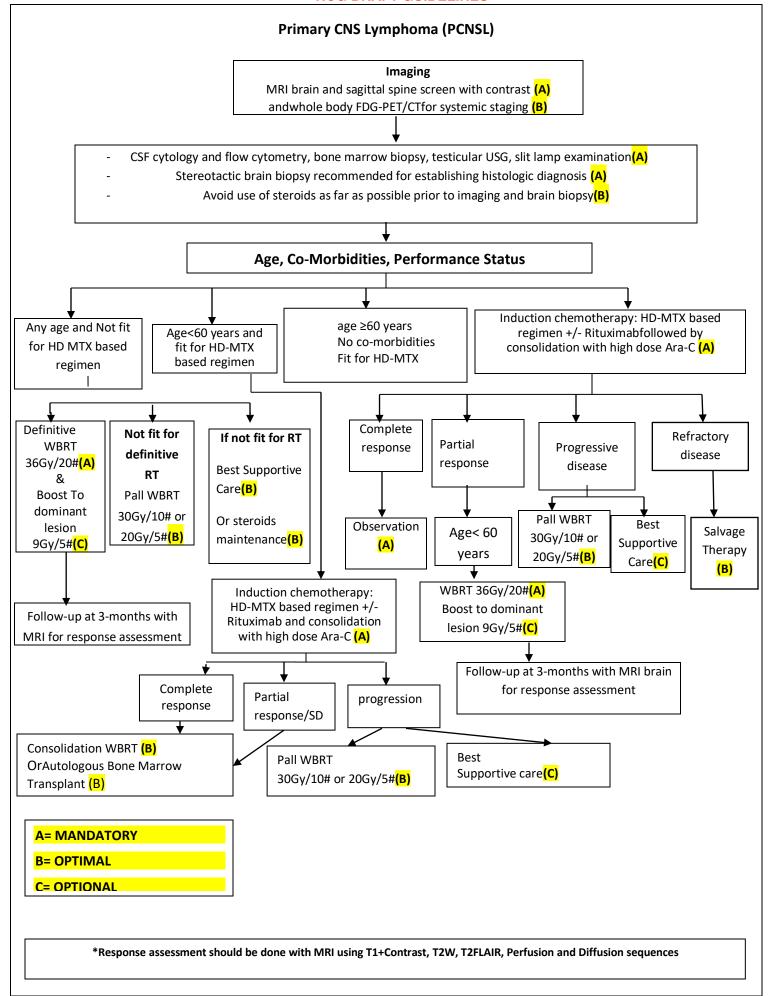


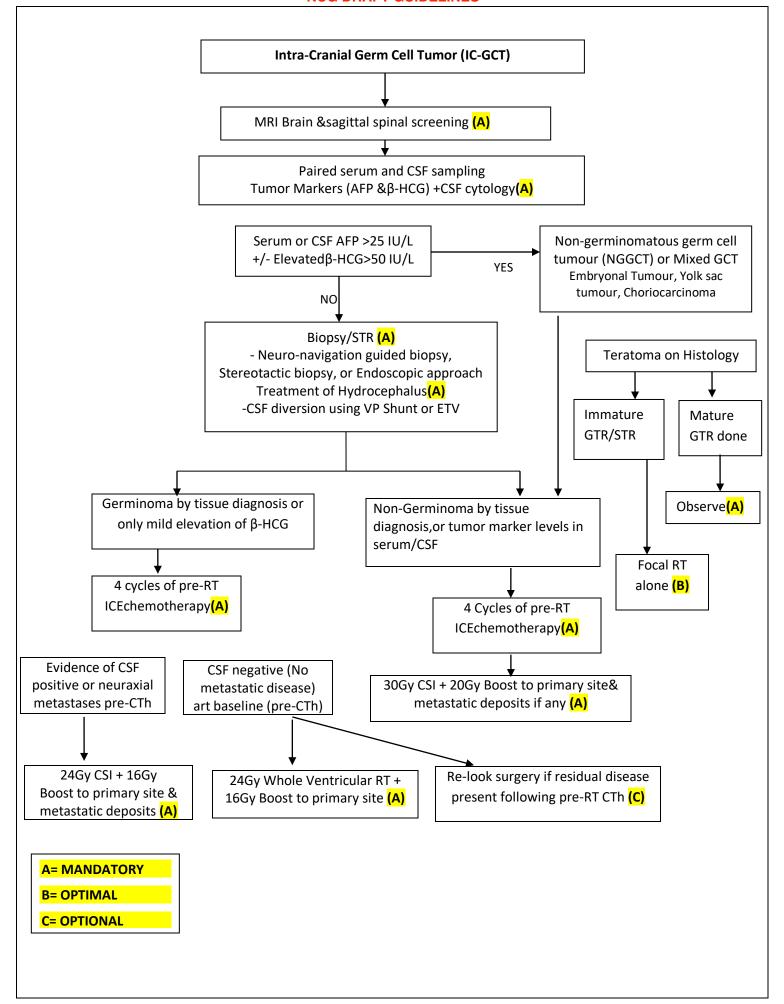






A= MANDATORY
B= OPTIMAL
C= OPTIONAL





Chemotherapy regimens for ICGCT

Drugs	Dose	Days and Route
ICE Regimen (3-weekly for 4 cycles)		
Ifosfamide	1500mg/m ²	Days 1-5 IV
Carboplatin	600mg/m ²	Day 1 only IV
Etoposide	100mg/m ²	Days 1-3 IV

Germinoma: A2-drug combination chemoRx for 4 cycles is recommended: Carboplatin/etoposide alternating with Ifosfamide/Etoposide or alternatively Ifosfamide, carboplatin and etoposide for 4 cycles

NGGCT: A3-drug combination for 4 cycles is recommended: Ifosfamide/Cisplatin (Alternating with carboplatin) and Etoposide or alternatively Ifosfamide, carboplatin and etoposide for 4 cycles

