

ATTACH PATIENT ID

Low Grade Glioma, Surgery only (GTR)
Pediatric Surveillance & Follow-up Guidelines

	Months from end of therapy	Date	Location	H&P	MRI of head	Endocrine	Audiology exam	Eye exam	Neuropsych Assessment	Other
Early Follow-up Clinic	0			+	+					
	3			+	+	+				
	6			+						
	9			+						
	12			+	+					
	18			+						
	24			+	+					Summary for LTFU clinic
LTFU Clinic	(Year) 2.5			+						
	3			+						
	4			+						
	5			+	+	+				
	6			+						
	7			+						
	8			+						
	9			+						
	10			+						
	11			+						
	12			+						
	13			+						
	14			+						
	15			+	+					
	16			+						
	17			+						
	18			+						
	Notes			+BMI		If indicated: TSH, T4, fasting glucose, fasting lipids, IGF-1	If indicated	If indicated	First assessment prior to school entry if concerns. Repeat at school transitions if ongoing concerns	

Cardiac Surveillance Guidelines (BC)

Anthracycline Dose*	Radiation Dose**	Recommended Frequency of Echo
None	< 15 Gy or none	No Screening
	15 - < 35 Gy	Every 5 years
	35 Gy	Every 2 years
< 250 mg/m ²	< 15 Gy or none	Every 5 years
	15 Gy	Every 2 years
250 mg/m ²	Any or none	Every 2 years

*Based on total doses of doxorubicin or the equivalent doses of other anthracyclines

**Based on radiation dose with potential impact to heart (radiation to chest, abdomen, spine [thoracic, whole], total body [TBI])

COG LTFU Guidelines version 5.0 (Oct 2018)

Anthracycline Equivalent Dose

Agent	Correction factor
Doxorubicin	1.0
Daunorubicin	0.5
Epirubicin	0.67
Mitoxantrone	4.0
Idarubicin	5.0

Chow J Clin Oncol 2015;33(5):394-402

Risk of Prolonged Oligospermia or Azoospermia

Agent	Possible Risk	High Risk
Cyclophosphamide	> 4g/m ²	> 7.5 g/m ²
Busulphan		> 600 mg/m ²
Melphalan		> 140 mg/m ²
Ifosfamide	> 42 g/m ²	> 60 g/m ²
Procarbazine	> 3 g/m ²	> 4 g/m ²
Chlorambucil		> 1.4 g/m ²
BCNU	> 300 mg/m ²	> 1 g/m ²
CCNU		> 500 mg/m ²
Cisplatin	> 300 mg/m ²	> 600 mg/m ²
Testicular RT dose	> 200 cGy	> 1200 cGy

*Lower doses are still possible risk

Risk of Premature Ovarian Insufficiency or Infertility

Agent	Possible Risk	High Risk	Ref
CED	> 4 g/m ²	> 8 g/m ²	1
Procarbazine	> 2 g/m ²	> 4 g/m ²	2
Cisplatin	> 300 mg/m ²		3
Dactinomycin	>12.2 mg/m ²		4
Ovarian RT dose*	> 100 cGy	> 1000 cGy	5

*Age dependent (see nomogram⁵)

⁵Bevacizumab can cause ovarian failure; possibly acute and transient only⁶

1. Green Pediatr Blood Cancer 2014;61(1):53-67
2. Van der Kaaij J Clin Oncol 2012;30(3):291-299
3. Solheim Gyne Oncol 2015;136(2):224-229
4. Van Den Berg Hum Reprod 2018; 33(8):1474-1488
5. Wallace Int J Radiat Oncol;62(3):738-744
6. Imai Molec Clin Oncol 2017;6:807-810

Cyclophosphamide Equivalent Dose (CED)

Agent	Correction factor
Cyclophosphamide	1.0
Ifosfamide	0.244
Procarbazine	0.857
Chlorambucil	14.286
BCNU	15
CCNU	16
Melphalan	40
Thiotepa	50
Nitrogen Mustard	100
Busulphan	8.823

Green Pediatr Blood Ca 2014;61:53-67

1. Green J Clin Oncol 2010;28:332-9

2. Meistrich Pediatr Blood Cancer 2009;53:261-6

3. Wyns Human Reprod Update 2010;16(3):312-328

