



cIMPACT: Meningioma

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Case-Based Questions (please see page 3 for answers)

1.	cIMPACT8 recommends that a meningioma with histological features of CNS WHO grade 1 and evidence of 1p-deletion should be graded as
	a. Meningioma NEC
	b. Meningioma NOS
	c. Meningioma CNS WHO grade 1
	d. Meningioma CNS WHO grade 2
	e. Meningioma CNS WHO grade 3

2.	A meningioma in a 65 year old female shows brain-invasion, but is morphologically otherwise benign. Molecular testing would generally be available at the center and the tissue sufficient. In keeping with cIMPACT8, next steps would include:
	a. Perform molecular testing for markers distinguishing lower and higher risk
	b. Abstain from grading and render a diagnosis of Meningioma NOS
	c. Render a diagnosis of Meningioma CNS WHO grade 1
	e. Render a diagnosis of Meningioma CNS WHO grade 2

3.	According to cIMPACT8, a case with morphological features of CNS WHO grade 2, no copy-number-alterations or TERT mutation, and a methylation score for a “benign”/Merlin-intact/favourable methylation class should be diagnosed as
	a. Meningioma CNS WHO grade 1
	b. Meningioma CNS WHO grade 2 (with comment that molecular profile may indicate lower risk)
	c. Meningioma CNS WHO grade 2 without comment
	d. Meningioma NEC
	e. Meningioma NOS

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Correct Answers and Rationales

Question 1 Correct Answer and Rationale: D. Meningioma CNS WHO grade 2

Rationale: 1p-deletion is associated with worse outcome than CNS WHO grade 1 in multiple studies, even without any morphological signs of higher grade.

Question 2 Correct Answer and Rationale: A. Perform molecular testing for markers distinguishing lower and higher risk

Rationale: The prognostic role of brain-invasive, otherwise benign meningioma is debated. Due to the value of molecular data for prognostication of meningiomas, proven in several studies, cIMPACT8 recommends to leverage this information for grading.

Question 3 Correct Answer and Rationale: B. Meningioma CNS WHO grade 2 (with comment that molecular profile may indicate lower risk)

Rationale: Methylation results do not override the WHO grading criteria according to cIMPACT8.