

Brain Tumor Index of Relevant Slide to Content Outline
 ASPH/O 2013 Board Review

Topic Area	Slide Number(s)
a. Epidemiology/predisposing factors/genetics	
Know the cytogenetic and molecular genetic abnormalities associated with brain tumors	50, 75, 82, 106-108
Recognize the association between brain tumors and heritable syndromes (eg, neurofibromatosis, tuberous sclerosis)	106
Know the association between pineoblastoma and retinoblastoma	108
b. Pathology	
Recognize the pathologic subtypes of brain tumors such as low-grade glioma, high-grade glioma, medulloblastoma, ependymoma, atypical teratoid rhabdoid tumor, choroid plexus carcinoma, and CNS germ cell tumor	7-19
Recognize the pathologic subtypes of brain tumors relative to primary tumor site and pattern of spread	20-29
Recognize the relationship between histologic grade of gliomas and prognosis	18, 67,88
c. Clinical presentation	
Recognize the clinical presentation of brain tumors by anatomic site	30-39
Know the clinical and laboratory manifestations of different central nervous system tumors	See individual tumor type
Know the clinical and laboratory features of medulloblastoma	47-50
Know the clinical and laboratory features of cerebellar astrocytoma	74-75
Know the clinical and laboratory features of brain stem glioma	66-69
Know the clinical and laboratory features of pineal tumors	56, 91, 97
Know the clinical and laboratory features of ependymoma	58-59
Know the clinical and laboratory features of primitive neuroectodermal tumors	56
Know the clinical and laboratory features of optic pathway gliomas	74-75
Recognize the relationship between age and anatomic site in the clinical presentation of brain tumors	4,22,23
Know the clinical and laboratory features of hypothalamic tumors	74-75
Know the clinical and laboratory features of intramedullary spinal cord tumors	103-104
d. Diagnosis and staging	
Utilize appropriate imaging modalities to determine the extent and metastatic spread of brain tumors	See individual tumor type
Know which central nervous system tumors are associated with spinal cord metastases	104
Know the appropriate imaging, CSF, and other laboratory studies to use for staging CNS tumors	See individual tumor type
Know the patterns of metastasis and spread characteristic of CNS tumors	104
e. Treatment	
Know the role of surgery in the treatment of brain tumors	40-41
Recognize that surgery alone is curative for cerebellar astrocytoma	80
Know the role of irradiation in the treatment of brain tumors	40,42
Know the role of chemotherapy in the treatment of brain tumors	40, 43-44

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Monitor the response to treatment of brain tumors using clinical modalities	-
Monitor the response to treatment of brain tumors using imaging modalities	-
Monitor the response to treatment of brain tumors using biochemical markers	97, 100
Know the principles of management for patients with medulloblastoma	48-50; 53-55
Know the principles of management for patients with low grade astrocytoma	80,82
Know the principles of management for patients with brain stem glioma	70,72
Know the principles of management for patients with pineal tumors	56-57
Know the principles of management for patients with ependymoma	59, 62, 64
Know the principles of management for patients with primitive neuroectodermal tumors	56-57
Know the principles of management for patients with high grade gliomas (anaplastic astrocytoma and glioblastoma multiforme)	87, 89
Know the principles of management of patients with central nervous system germ cell tumors	94, 100, 102
(from section VII.B) Know the possible role of HSCT in the treatment of brain tumors (see also section V.H.5.e)	105
f. Prognosis	
Know the prognostic features (eg, stage and histology), and their associated prognoses, of brain tumors	See individual tumor type
Know the natural history of medulloblastoma	55
Know the natural history of low grade astrocytoma	81
Know the natural history of brain stem glioma	71
Know the natural history of pineal cell tumors	56
Know the natural history of ependymoma	63
Know the natural history of central nervous system primitive neuroectodermal tumors	56
Identify the prognostic factors in patients with medulloblastoma	49-50
Identify the prognostic factors in patients with astrocytoma	18
Identify the prognostic factors in patients with brain stem glioma	72
Identify the prognostic factors in patients with pineal cell tumors	56
Identify the prognostic factors in patients with ependymoma	63
Identify the prognostic factors in patients with primitive neuroectodermal tumors	56
Know the natural history of high grade gliomas	88
Identify the prognostic factors in patients with central nervous system germ cell tumors	95, 101
g. Complications/late effects	
Know the complications and late effects of brain tumors	109-110
Know the late effects of brain tumors and their treatment in patients of various ages	109-110
Know the secondary malignancies associated with treatment of brain tumors	109

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Know the potential neurologic sequelae of brain tumors and their treatment	109
Know the potential endocrine sequelae of brain tumors and their treatment	109-110
Know the potential intellectual sequelae of brain tumors and their treatment	109-110
Know the complications and late effects of surgery performed in the treatment of brain tumors	109
Know the complications and late effects of irradiation in the treatment of brain tumors	109
Know the complications and late effects of chemotherapy in the treatment of brain tumors, eg, secondary malignancies	110