

Brain Metastases from Extra-Cranial Solid Tumors

MRI highly suggestive of Brain Metastases

Limited Brain Metastases (1-3)

Multiple Brain Metastases (>4)

Whole Body FDG-PET/CT (A)
or
CT scan of Thorax + Abdomen + Pelvis (A)

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CT scan of Thorax + Abdomen + Pelvis (A)

Disseminated disease
Poor systemic Rx options

Stable systemic disease
Good systemic Rx options

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Best Supportive Care (B)
Palliative WBRT (B)
30Gy/10#/2-wks
20Gy/5#/1-wk

Resection for lesion in non eloquent area (A)

Resection not done or not feasible

Best Supportive Care (B)
Palliative WBRT (B)
30Gy/10#/2-wks
20Gy/5#/1-wk

§Hippocampal sparing WBRT + tumour boost (B)
SRS in select cases (C)

*SRS/hypofractionated SRS (B)
OR
§Hippocampal sparing WBRT + tumour bed boost (B)

*SRS/hypofractionated SRS (B)
OR
§Hippocampal sparing WBRT + tumour boost (B)

Response Assessment MRI

Response Assessment MRI

A= MANDATORY

B= OPTIMAL

C= OPTIONAL

§Hippocampal sparing WBRT dose:
30Gy/10#/2-wks with simultaneous integrated boost to tumour/tumour bed for total dose of 45-50Gy/10#

*SRS/hypofractionated SRS dose depends upon the total volume of all brain metastatic disease taken together
Single fx SRS dose: As per RTOG guidelines
Hypo-SRS dose: 27Gy/3# or 32.5Gy/5#