

Gender: female
Age: 79-year-old
Date of admission: 91/03/01

#### Chief complaint & present illness

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- Been found to sleep on the ground after falling down
- She suffered from memory impairment and unsteady gait for 1 month
- Nausea and vomiting
- General weakness

### Past, family and personal history

 Past history: Denied any systemic disease
 Family history: Not contributory
 Personal history: Denied smoking/drinking Denied allergy history

# Physical & neurologic examination

Vital sign: T/P/R—38.5/88/20 BP-148/90 Consciousness: delirium Orientation: oriented Memory: not test GCS: E4M6V4 (confused conversation) M.P & DTR: normal

#### Laboratory data

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3/1 WBC:17950, NEUT:94%
3/5 WBC:11190, NEUT:90.6%
3/7 ESR, CEA, AFP, CA125, CA153, CA199– within normal range

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- Brain CT on 91.3.1
- Without enhancement
- A hypo-intense lesion on right temporoparietal region
- High-attenuated mass situated in the right thalamus with white matter edema



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- Brain CT on 91.3.1
   With enhancement
   Brain swelling with right side lateral ventricle narrowing
   A high-attenuation
  - mass in the temporopariatal area

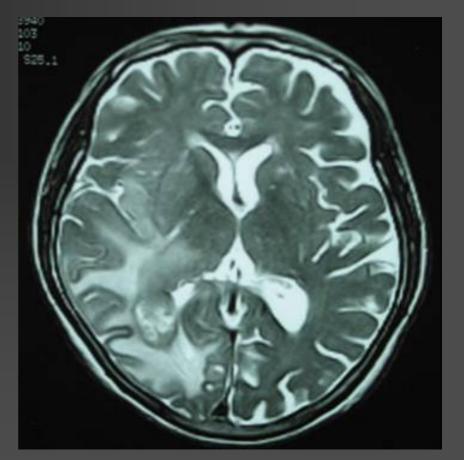


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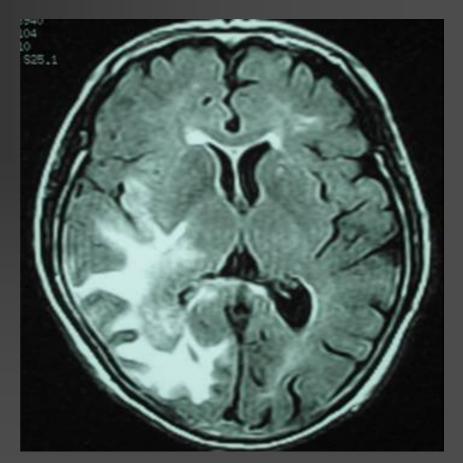
MRI(T2WI) on 91.3.5

A heterogeneous mass lesion in right temporo-parietal region with a peripheral rim of low signal intensity

 Surrounding high signal intensity in the adjacent white matter



 MRI(T1WI) on 91.3.5
 An irregular mixed signal intensity mass at right temporoparietal area with marked peri-focal edematous change

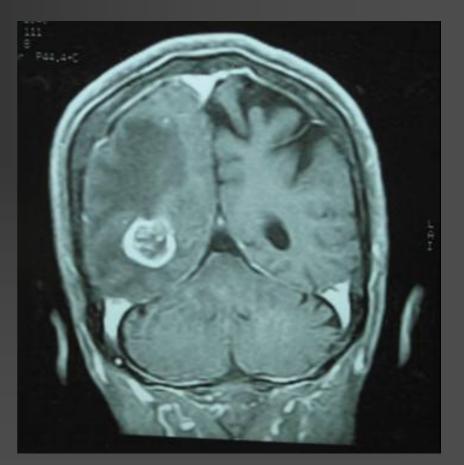


 Sagittal MRI scan with contrast enhance
 26mm in diameter

 MRA shows normal tributaries of bilateral carotid arteries



 Coronal MRI scan with contrast
 22\*21mm in diameter
 Heteorgeneous contrast enhance of the right cerebral hemisphere mass



### Differential diagnosis(1)

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- Intra-axial lesion with marked edema: metastasis, abscess, glioma, radiation necrosis, mild hematoma
- Hemorrhagic tumors: GBM> metastasis> oligodendroglioma
- Ring-enhancement lesions: metastasis, abscess, glioma, infract, contusion, demyelinating disease, resolving hematoma

#### Differential diagnosis(2)

 Abscess: smooth ring, hyper-intense on T1WI, hypo-intense on T2WI
 Butterfly glioma: bihemispheric spread (CNS lymphoma or GBM) through corpus collosum, T2 hyperintense in corpus collosum or internal capsule→secondary to neoplastic spread



 Glioblastoma multiforme with hypercellularity and moderately pleomorphic neoplastic cells in the fibrillary background. Mitoses can be found in the tumor cells.

Focal prominent endothelium proliferation giving rise to glomeruloid appearance is also noted no necrosis is seen

#### **Clinical course**

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- 3/1 brain CT, R/O brain tumor or abscess, admission
- 3/2 arrange brain MRI, antibiotics given
- 3/4 fever subside, conscious clear
- 3/7 tumor marker negative
- 3/8 CT guide stereotactic brain biopsy
- 3/12 pathology report—GBM
- 3/18 start R/T

#### **Glioblastoma multiforme**

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- Most malignant type and most common form of glioma
- Peak age: 44~55 y/o
- Most common location: deep white matter of the frontal lobe> temporal lobe and basal ganglion
- Classic appearance: expansile mass with central necrosis, ring enhanement, and a large surrounding region of white matter edema

#### **Glioblastoma multiforme**

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Non-contrast CT: heterogeneous and lobulated with marked white matter edema Necrosis, hemorrhage, calcification Contrast CT: 90% show at least some enhancement, usually irreular MRI: tumor nidus– dark on T1WI, bright on T2WI compared with gray matter