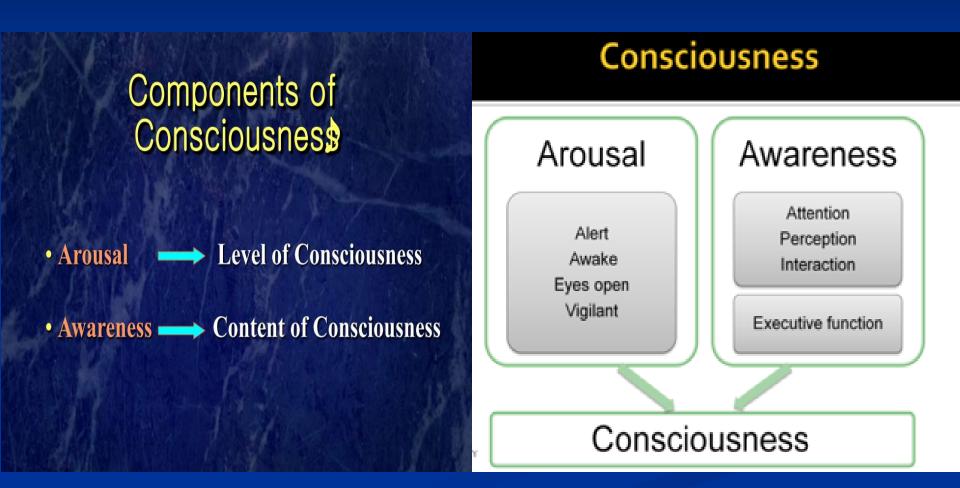
## **Components of Consciousness**



## **Content of consciousness Terminology**

#### Table 1

#### Terms for delirium

Acute confusional state

Acute brain failure

Agitation

Altered mental status

Confusion

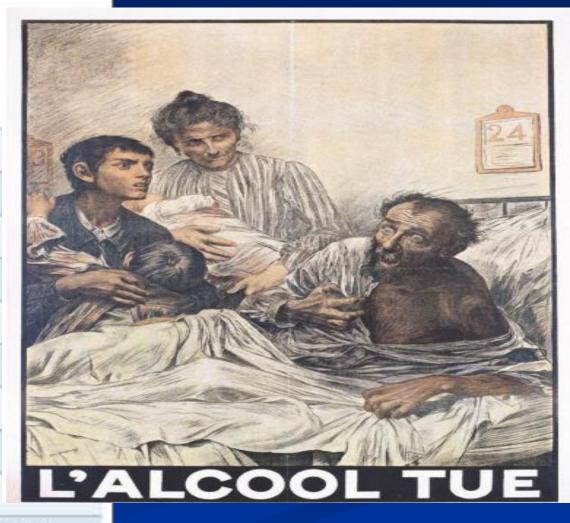
Encephalopathy

ICU psychosis

Mental status changes

Sundowning

Terminal restlessness (eg, in palliative care)

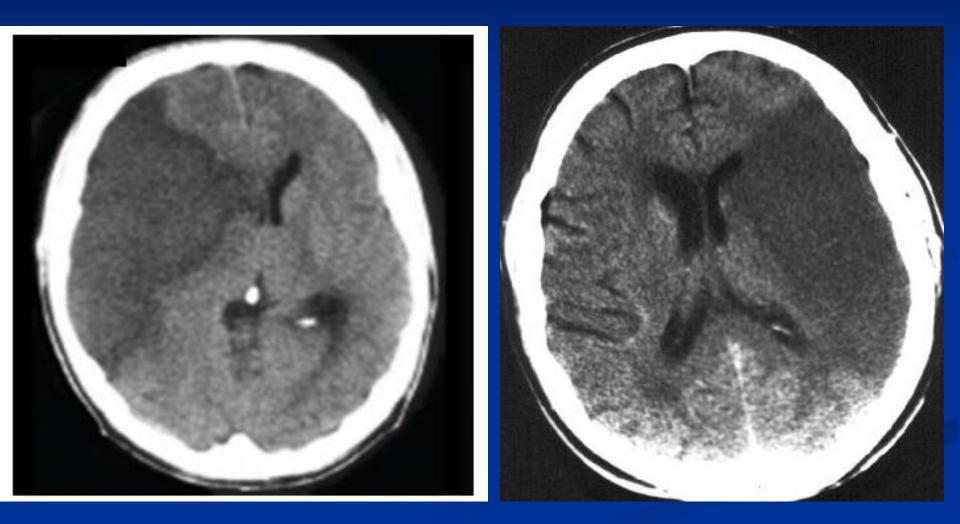


#### What is the cause of coma?

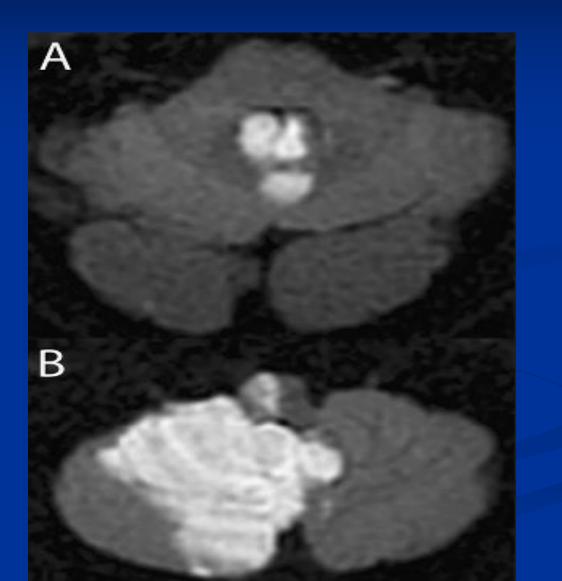
CT and MRI of the brain are very important in the workup of a comatose patient



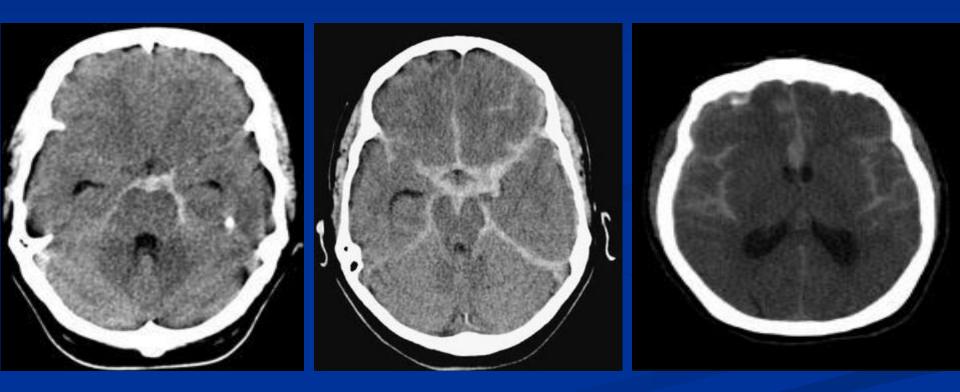
#### Middle Cerebral Artery Infarction

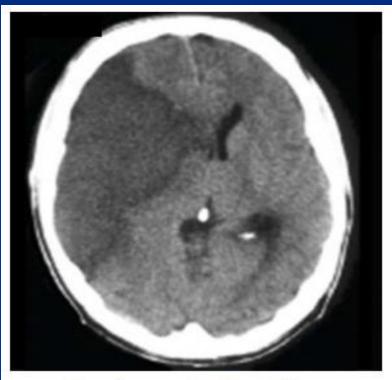


## **Acute infarction on MRI-DWI sequence**

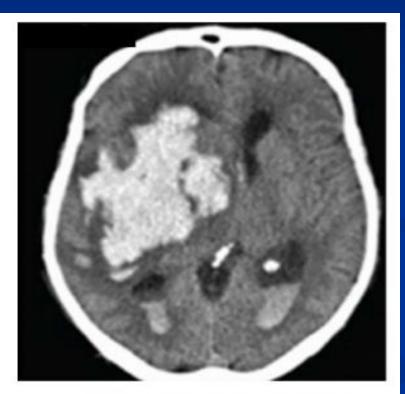


## Subarachnoid hemorrhage





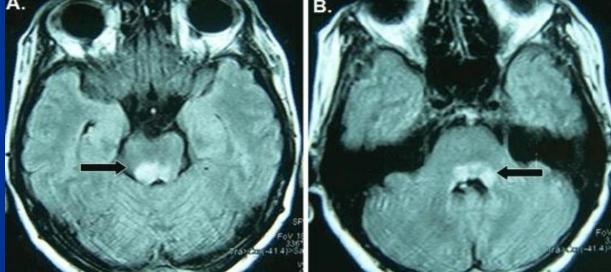
Ischemic Stroke (dark/hypodense)



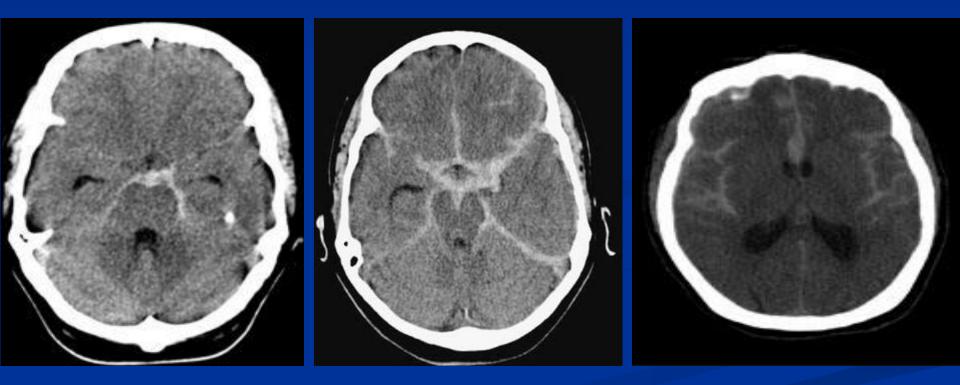
Hemorrhagic Stroke (bright/hyperdense)

# **ABM : Etiology**

- Haemophilus influenzae type b was once the leading cause of bacterial meningitis in children. But new Hib vaccines have greatly reduced the number of cases of this type of meningitis.
- Listeria monocytogenes These bacteria can be found in unpasteurized cheeses, hot dogs and lunchmeats. Pregnant women, newborns, older adults and people with weakened immune systems are most susceptible. Listeria can cross the placental barrier, and infections in late pregnancy may be fatal to the baby.



## Subarachnoid hemorrhage Most common cause- rupture of arterial berry aneurysm

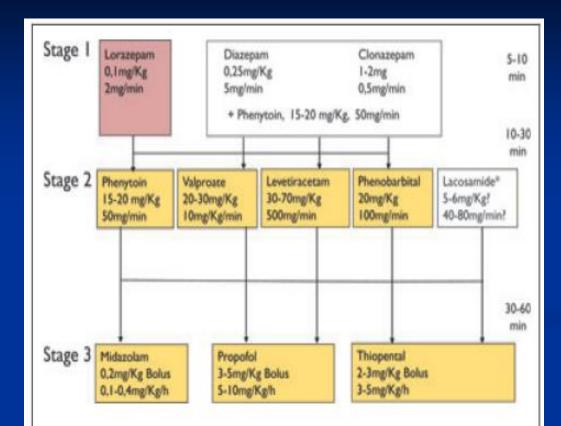


## Classic Signs of Subarachnoid Hemorrhage

- Abnormal vital signs
  - Respiratory changes, hypertension, cardiac arrhythmias
- Meningism
- Focal neurologic signs may be present
  - III nerve palsy Posterior communicating artery aneurysm
  - Paraparesis ACA aneurysm
  - Hemiparesis, aphasia MCA aneurysm
- Ocular hemorrhages



# Status Epilepticus

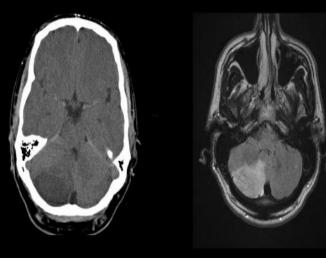


#### Figure 5.

Staged approach to the treatment of convulsive status epilepticus. \*There is currently limited evidence for the use of lacosamide in SE (see Höfler et al., 2011) Modified after Trinka, 2007; Shorvon et al., 2008. *Epilepsia* © ILAE

# Dizziness/vertigo

- Acute vertigo middle age man
- Headache Red flag!
- Normal head thrust Red flag!!



#### Brain scan needed in acute vertigo:

- Intact head impulse test
- New onset (occipital) headache
- Any central symptoms or signs
- Acute deafness



#### Neurological causes of sudden loss of vision

Optic neuropathy (Demyelination) , Ischemia/vasculitis) Papilledema/high ICP (Tumor, Idiopathic Intracranial Hypertension) Bilateral occipital lobe pathology (infarcts, Posterior Reversible Encephalopathy Syndrome) Functional/psychogenic



# Anatomy of Visual Pathways

