

Pneumoencephalography

Last updated: September 5, 2017

- X-ray visualization of *subarachnoid spaces* and *ventricles* by use of gas (such as air) contrast obsolete neuroimaging technique!
- described by Walter Dandy in 1918.
- air is injected via:
 - a) lumbar puncture
 - b) ventricular puncture
- patient position is manipulated to accomplish air movement.

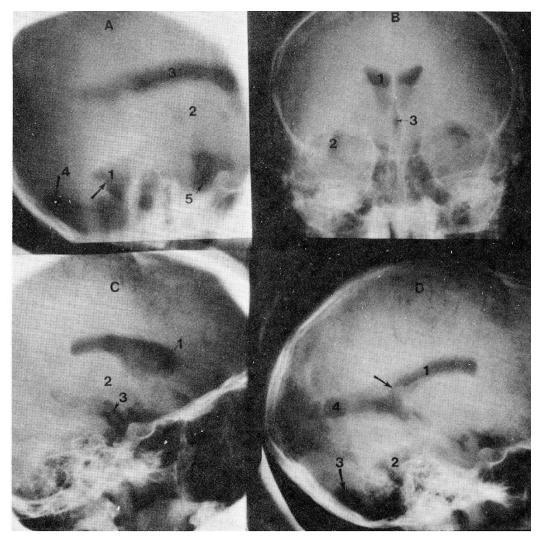


FIGURE 110. A normal pneumoencephalogram.

- A, Erect mid-line tomogram.
 - 1. 4th ventricle (the choroid plexus is arrowed).
 - 2. 3rd ventricle.
 - 3. Lateral ventricle.
 - 4. Cisterna magna.
 - Cisterna magna.
 Pre-pontine cistern.
- B, Anteroposterior brow-up view.
 - 1. Body of lateral ventricle.
 - 2. Temporal horn.
 - 3. 3rd ventricle.

- C, Lateral brow-up view.
 - 1. Frontal horn of lateral ventricle.
 - 2. 3rd ventricle.
 - 3. Temporal horn.
- D, Lateral brow-down view.
 - 1. Lateral ventricle (choroid plexus arrowed).
 - 2. 4th ventricle.
 - 3. Cisterna magna.
 - 4. Occipital horn.



 $\underline{\text{Bibliography}} \text{ for ch. "Diagnostics"} \rightarrow \text{follow this Link} >>$

Viktor's Notes[™] for the Neurosurgery Resident Please visit website at www.NeurosurgeryResident.net