Transtentorial Herniation in 2-Compartment Hydrocephalus

The problems of pressure differentials across the incisura are demonstrated by these 2 images. Separate ventricular catheters, one above and the other below the tentorium, not connected to the same valve, is the most common cause. This was especially true when distal slit catheters without flow regulating devices were used to drain the infratentorial portion. The CT scan (right) and the autopsy specimen (left) both show diverticulae (D) of the medial temporal lobes through the incisura into the posterior fossa (arrows).