Evans index

see also Callosal angle, DESH, Cingulate sulcus sign.

Evans index, which was introduced by William A. Evans in 1942, is a standard.

The Evans index is the ratio of maximum width of the frontal horns of the lateral ventricles and maximal internal diameter of skull at the same level employed in axial CT and MRI images. This ratio varies with the age and sex. However, values of the Evans index can significantly vary depending on the level of the brain CT scan image.

It is useful as a marker of ventricular volume and thus has been proposed as a helpful biomarker in the diagnosis of normal pressure hydrocephalus (NPH).

Unfortunately it is a very rough marker of ventriculomegaly, and varies greatly depending on the location and angle of the slice.

As such Evans' index has little role to play in day-to-day reporting.


