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Vestibular and Audiological Aspects of Two Cases of Hemispherectomy

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These two patients, from the Neuro-Surgery Department of our hospital (Chief: Dr. Verbiest), were operated on 5 years ago for hemispherectomy of the right side. They are both in good condition. In the beginning vestibular responses were uninhibited with a slight predominance of the contra-lateral side.

Even after 5 years a slight difference in response persists as is demonstrated with cupulometry, caloric and optokinetic nystagmus, but inhibition reappeared to the full extent.

The auditory phenomena

pure tone audiogram of the left ear slightly inferior to the normal ear but discrimination significantly lower

are in agreement with usual findings. Binaural speech audiometry shows a normal summation: hence binaural interactions

even for discriminatory functions

appear to take place on a subcortical level.