

## **Abstract EFAS/DGA 2007**

### **Binaural hearing and auditory functioning.**

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This presentation focuses on binaural hearing in relation to the auditory functioning in complex daily situations rather than on the use of binaural tests for the diagnosis of central auditory pathology. Theoretically, the use of interaural cues of intensity and phase can be tested with several headphone tests. These will be helpful for diagnosing the reasons why certain aspects of binaural co-operation may be impaired.

With respect to auditory functioning, free-field tests on speech perception with separated sound sources and tests on horizontal localization are more relevant. This presentation will review several tests in this area as well as their application in assessing the benefit of a bilateral fitting with hearing aids.

Finally, there are several aspect of spatial hearing, based on binaural hearing, that are relevant for auditory functioning in daily life, but that are not covered by existing clinical tests. Possible solutions will be discussed.

