

## **Abstract EFAS/DGA 2007**

### **Preliminary results of the Adult multicentral European HiRes 120 study**

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**Background:** Over the years, new sound coding strategies have been developed resulting in continuous improvement of performance. Recent research has shown that using spectral bands through stimulating areas between two electrodes have a benefit for the subject. This 'current steering' approach known for years is the basis for the newly implemented HiRes Fidelity with 120TM Sound Processing, referred as HiRes 120 strategy.

**Aims:** 1) Investigate the benefit of HiRes vs. HiRes 120 speech coding strategy; 2) Determine benefit of Auria+ Harmony sound processor1 vs. own processor; 3) Identify variables to predict benefit of HiRes 120 speech coding strategy; 4) Develop fitting guidelines.

**Methods:** The benefit of HiRes 120 is evaluated with subjects that have at least 3 months of HiRes with their own processor who are switched over to HiRes 120. Another protocol option looks at first fitting with HiRes 120 with the new Auria+ Harmony sound processor. Performance, as well as speech quality and music appreciation, are investigated.

**Results:** A clear benefit of the new HiRes 120 speech coding strategy can be seen with a PSP, as well as with a new Auria+ Harmony processor. Especially encouraging, is the benefit of HiRes 120 when listening in noise. This benefit is also seen in the subjective data collected. Data evaluated about the new Auria+ Harmony processor show very satisfying rating for the processor.

**Conclusions:** The new HiRes120 strategy proves itself as beneficial in subjective and objective measurements. The new behind the ear Auria+ Harmony processor is very reliable and satisfactory.

#### **Literatur:**

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