

#### **OP16.4**

#### **PETALE®, a detection software for hearing disorders screening in children, proof of concept**

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**Background & Aim:** Hearing loss is the most common sensory impairment at birth and is a public health problem. The early management of hearing impairment conditions child's language acquisition and social integration. Our research aims at studying the feasibility of a test using a detection software for hearing disorders screening in children aged 9 to 36 months, in general practitioners' offices, in France.

**Method:** We developed a grounded theory method based on a qualitative study using two focus group interviews. Twelve volunteer general practitioners (GP) have been recruited to use the software and have been specifically trained for. The focus groups will take place in two waves and allow data saturation. T1 focus group will occur after 5 screenings with the tool and will aim at analyzing software integration in the GP's IT environment and screening feasibility during a consultation with a child. T2 focus group, after 10 uses of the software, will analyze routine implementation of the test. Data analysis will be based on double encoding and triangulation using N VIVO®.

**Results and Conclusion:** Study is still in process and results are expected in March 2016. Our research will show whether this software can be integrated in GP's routine practice. This work converges with the principle of "proof of concept" and will allow the researchers to identify improvements. In a second phase, a quantitative multisite research would allow to study the generalization of this tool.