



The DeVault Otologic Research Laboratory at Indiana University School of Medicine is currently seeking research participants between the ages of 3 and 25 with bilateral or unilateral cochlear implants to participate in a study about neurocognitive development in children and adults. Neurocognitive development refers to processes in the brain involved in memory, complex thinking, and learning. We know that cochlear implants do not provide equal benefit for all people with a profound hearing loss and we think that differences in neurocognitive development may help explain why. The information we obtain from this study will help us to identify children who may be at high risk for poor speech and language development after cochlear implantation so they can receive the most appropriate treatment and services as early as possible.

If you and/or your child take part in this research study you will be asked to come to Riley Hospital in Indianapolis, Indiana for one or two days. Participation will take approximately 3 hours each day. You or your child will be asked to participate in speech perception and language testing on one day, and to complete a series of neurocognitive tests on another day. The neurocognitive tests are done at a table and involve a variety of interesting activities that involve drawing, building with objects, memorization, concentration, and attention. We will also ask you and/or your child to fill out some questionnaires about thinking, planning, memory, emotional control, and behavior.

If you and/or your child participate, you will be paid \$20 per hour for the time you spend in testing and travel.

We hope that you will become one of the participants in this new study. If you are interested in participating, please call or email Shirley Henning, M.S., CCC-SLP (317-278-8390); [schennin@iupui.edu](mailto:schennin@iupui.edu) or Bethany Colson, M.A., M.S.D.E., CCC-SLP (317-278-3469); [bgehrlei@iupui.edu](mailto:bgehrlei@iupui.edu) in the Department of Otolaryngology at Riley Hospital to find out more about the study. Your interest does not obligate you to participate.

We thank you in advance for your interest, and hope you will help with this important project.

Sincerely,

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Indiana University

William Kronenberger, Ph.D.  
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Richard Miyamoto, MD  
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