

Chatterbox parents may boost tots' intelligence

April 30 2019



Credit: CC0 Public Domain

Researchers have found that young children who are exposed to large amounts of adult speech tend to have better cognitive skills.



The major new study, led by researchers at the University of York, identified a link between kids who heard high quantities of adult speech and their nonverbal abilities such as reasoning, numeracy and shape awareness.

The researchers gained unprecedented insight into the secret lives of preschoolers by fitting tiny audio recorders into the clothing of children aged two to four.

The experiences of 107 children and their interactions with parents and other caregivers were recorded in the <u>home environment</u> over three days for up to 16 hours per day.

Parents were also asked to complete activities with their children—involving drawing, copying and matching tasks—designed to test their child's <u>cognitive skills</u>.

Lead author of the study, Katrina d'Apice, a Ph.D. student from the University of York's Department of Education, said: "Using the audio recorders allowed us to study real-life interactions between <u>young</u> <u>children</u> and their families in an unobtrusive way within the home environment rather than a lab setting.

"We found that the quantity of adult spoken words that children hear is positively associated with their cognitive ability. However, further research is needed to explore the reasons behind this link—it could be that greater exposure to language provides more learning opportunities for children, but it could also be the case that more intelligent children evoke more words from adults in their environment."

The researchers also found that high quality adult speech may have benefits for children's linguistic development, as children in the study who interacted with <u>adults</u> who used a diverse vocabulary knew a greater



variety of words themselves.

The study also analysed the recordings to look at the impact different parenting styles might have on the children's behaviour.

d'Apice and her colleagues found that positive parenting—where parents are responsive and encouraging of exploration and self-expression—was associated with children showing fewer signs of restless, aggressive and disobedient behaviours.

The study's senior author, Professor Sophie von Stumm from the Department of Education at the University of York, said: "This study is the largest naturalistic observation of early life home environments to date.

"We found that the quantity of adult spoken words that children were exposed to varied greatly within families. Some kids heard twice as many words on one day as they did on the next.

"The study highlights the importance of treating early life experiences as dynamic and changeable rather than static entities—approaching research in this way will help us to understand the interplay between environmental experiences and <u>children</u>'s differences in development."

More information: Katrina d'Apice et al, A naturalistic home observational approach to children's language, cognition, and behavior., *Developmental Psychology* (2019). DOI: 10.1037/dev0000733

Provided by University of York

Citation: Chatterbox parents may boost tots' intelligence (2019, April 30) retrieved 11 May 2024



from https://medicalxpress.com/news/2019-04-chatterbox-parents-boost-tots-intelligence.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.