

# Children improve their narrative performance with the help of rhythmic gestures

June 4 2020

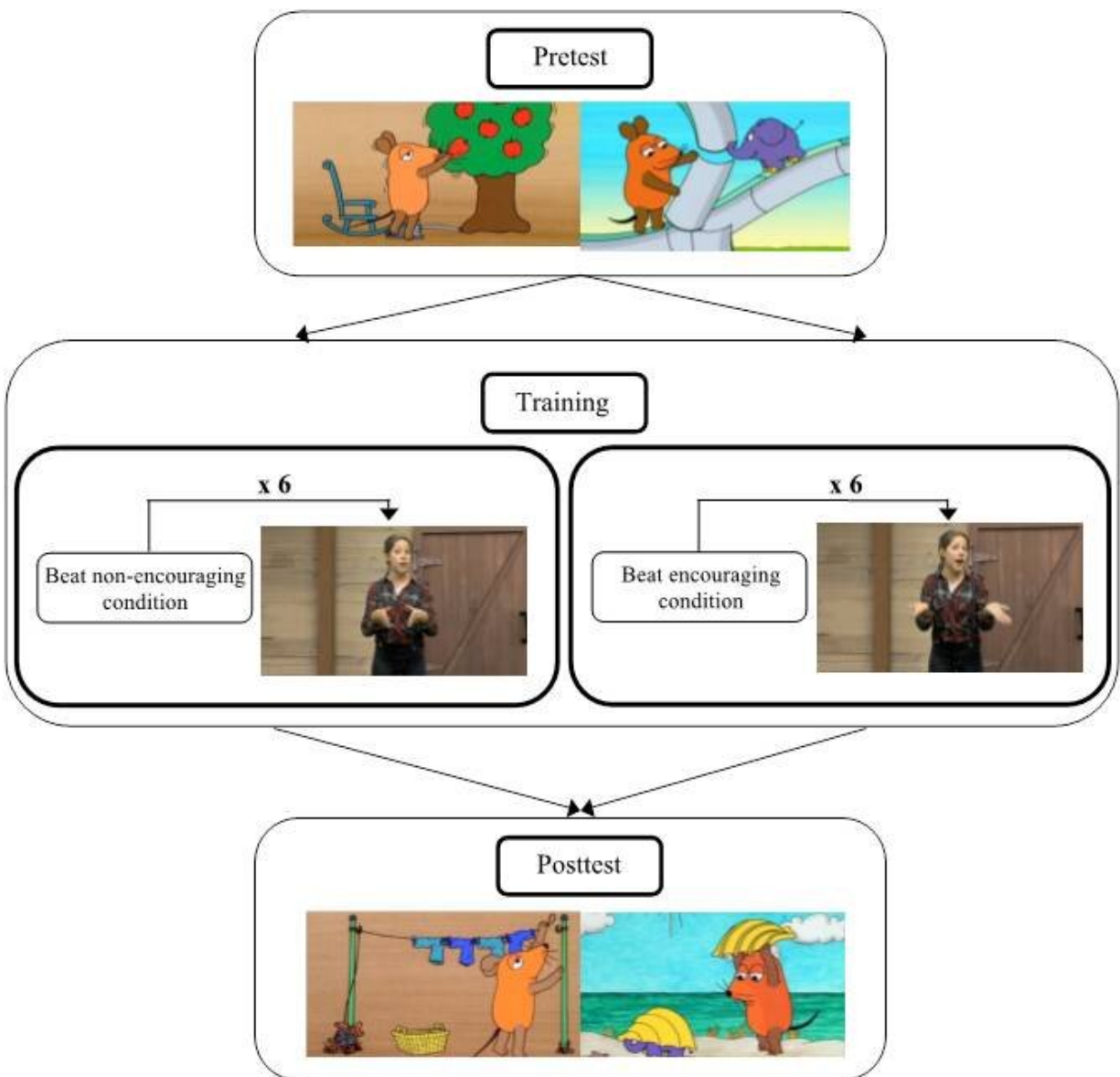


Diagram of the experimental procedure of the research by Vilà-Giménez and Prieto (2020) Credit: UPF

Gesture is an integral part of language development. Recent studies carried out by the same authors in collaboration with other members of the Prosodic Studies Group (GrEP) coordinated by Pilar Prieto, ICREA research professor Department of Translation and Language Sciences at UPF, have shown that when the speaker accompanies oral communication with rhythmic gesture, preschool children are observed to better understand the message and improve their oral skills. A new study goes a step further and studies for the first time the potential value of the fact that children produce rhythmic gestures while expressing themselves orally.

"In this study, we investigated whether encouraging [children](#) to produce rhythmic gestures can help improve the quality of their oral storytelling," explains Ingrid Vilà-Giménez, first author of the paper and member of Pilar Prieto's research team, co-author of the work recently published in the journal *Developmental Science*. To conduct this research, the authors studied the behaviour of 47 children aged five to six.

To study the children's oral narrative skills, the children were divided into two groups and received a [training session](#) in which they were presented with a total of six animated cartoon stories under one of the two experimental conditions. One group of children was limited to observing [video recordings](#) by narrators accompanying the stories using rhythmic gestures, and then the children had to re-enact the story they had been told. The other group was asked to perform the same task, but then they were asked to explain the stories helping themselves by using hand movements, just as they had seen it being done by the narrators of

the stories in the recording.

The researchers analysed the stories about the animated cartoons, looking at structure and narrative flow, and compared the scores obtained between the two experimental groups. The results showed that the children from the group that had used rhythmic gestures in the training phase achieved improvements in their oral narrative skills, both from the point of view of narrative structure and from the point of view of fluency, compared to the group of children who were asked simply to retell the story without receiving any instructions regarding the production of gestures.

These results show that encouraging children to use rhythmic gestures while narrating a story helps to improve the quality of their narrations and, consequently, their oral skills. The study suggests that body movements are linguistically relevant because they play an important role in the development of language. In short, a multimodal training where children narrate stories using rhythmic gestures can help improve their oral narrative skills.

**More information:** Ingrid Vilà-Giménez et al, Encouraging kids to beat: Children's beat gesture production boosts their narrative performance, *Developmental Science* (2020). [DOI: 10.1111/desc.12967](https://doi.org/10.1111/desc.12967)

Provided by Universitat Pompeu Fabra - Barcelona

Citation: Children improve their narrative performance with the help of rhythmic gestures (2020, June 4) retrieved 4 May 2024 from <https://medicalxpress.com/news/2020-06-children-narrative-rhythmic-gestures.html>

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