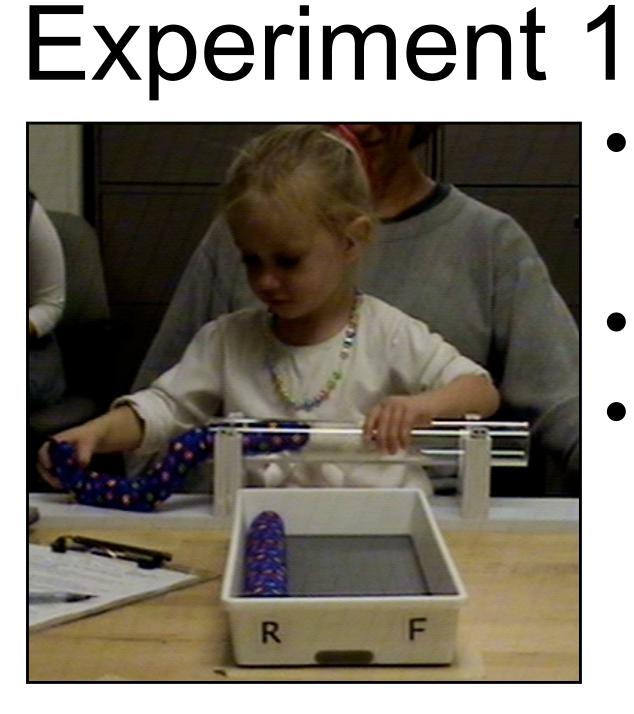


## **Main Questions**

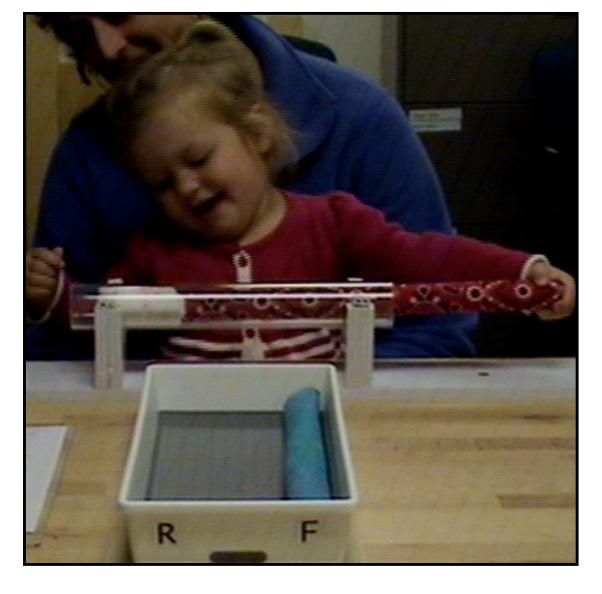
- Exp 1: Can young children learn to use tactile information to plan their actions?
- Exp 2: Can visual cues improve preschoolers' use of tactile information?

### Background

- Tactile information about an object's material substance is essential for planning goal-directed actions.
- Young infants are sensitive to tactile information about objects (Bourgeois et al., 2005).
- In this study we examined whether infants are able to use tactile information to plan their actions in a tool-use task.



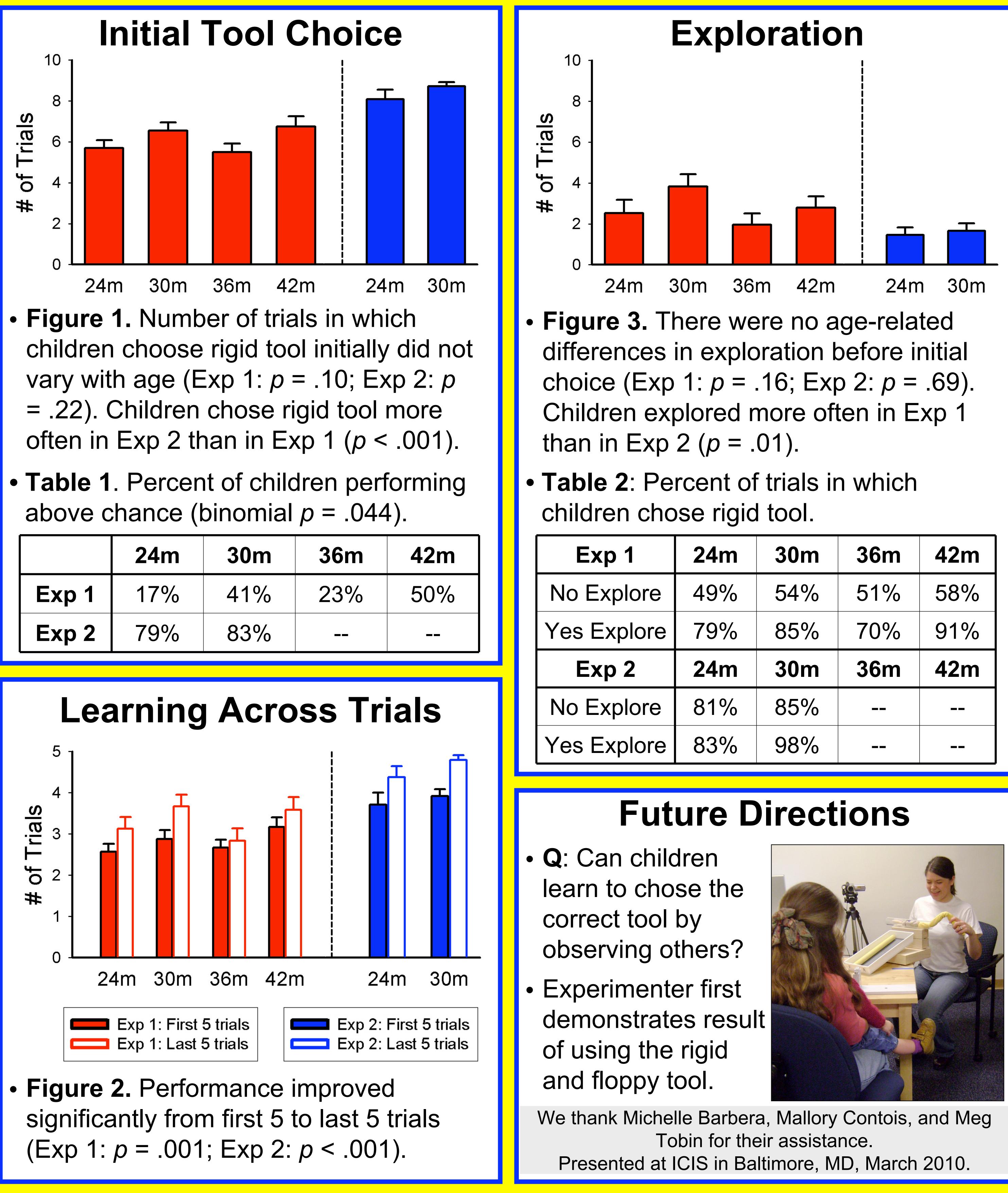
## Experiment 2



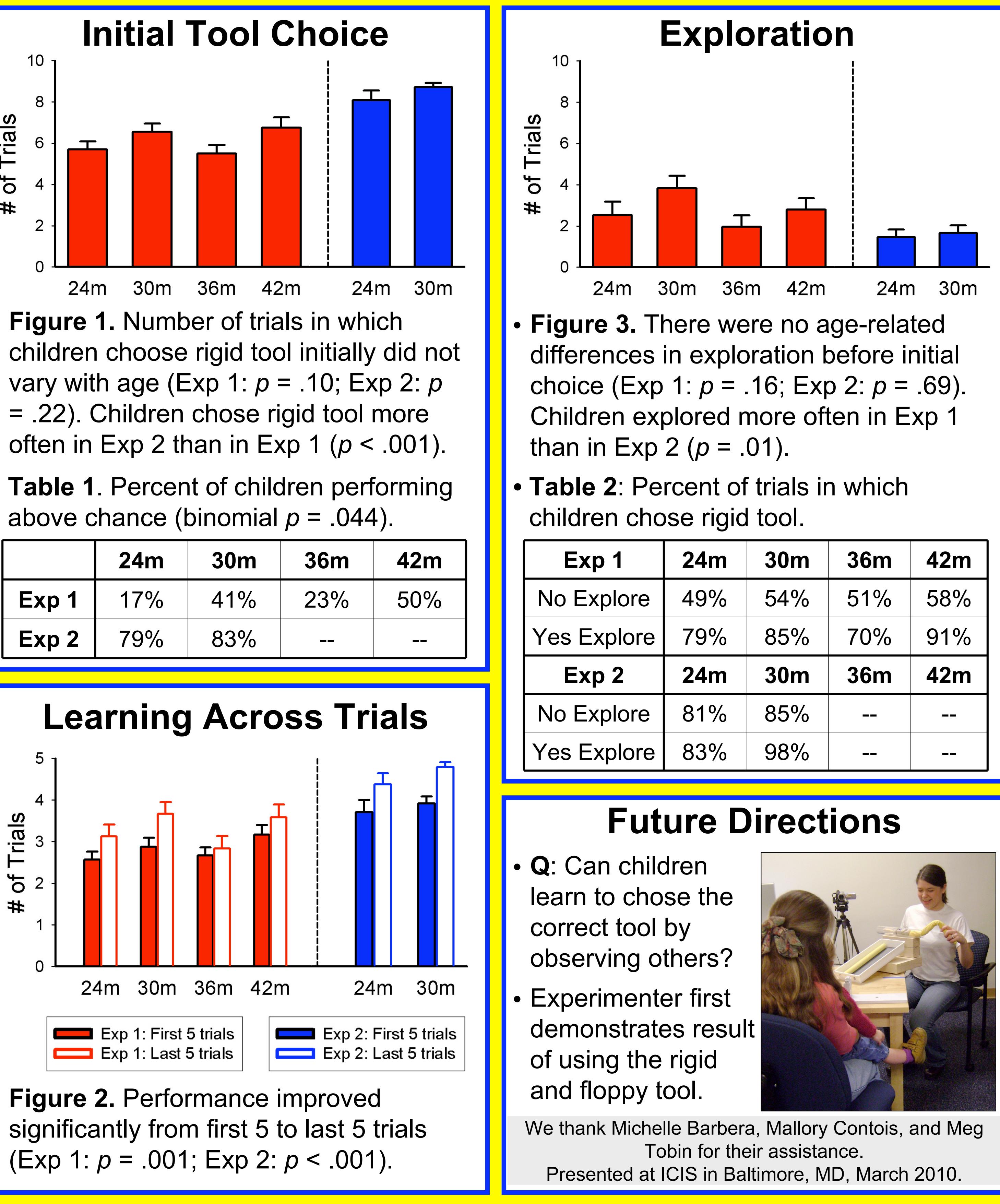
## Method

- 24-, 30-, 36-, & 42month-olds (n = 95)
- 10 test trials
- Tools were visually identical and differed in rigidity only
- 24- & 30-month-olds (n = 48)
- 10 test trials
- Tools differed in rigidity and color (e.g., on all trials: red = rigid, blue = floppy)

# The Development of Preschoolers' Use of Tactile Information for Goal-Directed Actions Anna E. Goswick & Amy S. Joh Department of Psychology & Neuroscience, Duke University



|       | 24m | <b>30m</b> |
|-------|-----|------------|
| Exp 1 | 17% | 41%        |
| Exp 2 | 79% | 83%        |



| 24m | 30m        | 36m | <b>42m</b> |
|-----|------------|-----|------------|
| 49% | 54%        | 51% | 58%        |
| 79% | 85%        | 70% | 91%        |
| 24m | <b>30m</b> | 36m | <b>42m</b> |
| 81% | 85%        |     |            |
| 83% | 98%        |     |            |