

## The AHEMD-IS as a tool for predicting developmental outcomes: A review



PRESENTER:

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### BACKGROUND:

- The **AHEMD-IS** is a questionnaire that evaluates an infant's **home environment** to grade motor opportunities in the home.
- Greater **motor opportunities** may lead to more **advanced skills** across development.
- A theoretical mechanism supporting gains in one domain linked to gains in other domains is **developmental cascades**.

### METHODS:

- Papers citing the AHEMD-IS were identified and screened using **PRISMA** guidelines.
- Papers that used the **AHEMD-IS as a predictor** were retained in the review.
- To determine how the AHEMD-IS has been connected to developmental outcomes, a **social network chart analysis** was done on Gephi.
  - Node size = frequency of outcome measured
  - Edge weight = frequency of  $p < .05$  findings

#### - FINE-MOTOR TOYS (22-26)

**22. Hand (graspable) toys: simple rattles, mouthable toys (teethers), graspable mirrors.**  
Examples are:

How many of these toys do you use to play with your infant at home?  
None ☐ One-two ☐ Three or more ☐

**23. Trains, cars, animals, or other toys that can be pulled and pushed.**  
Examples are:

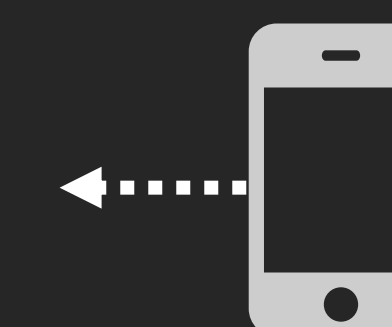
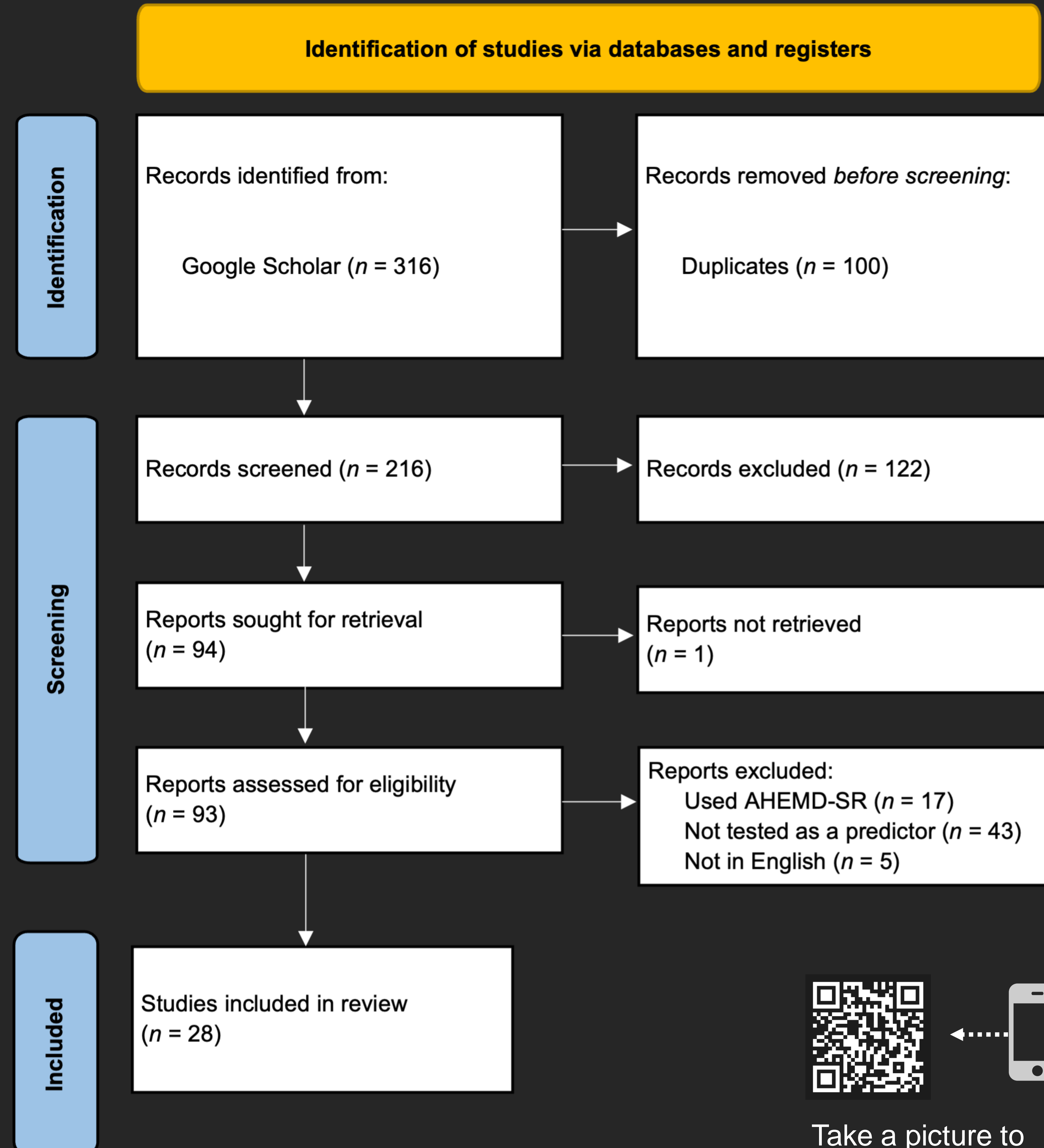
How many of these toys do you use to play with your infant at home?  
None ☐ One-two ☐ Three or more ☐

**24. Roly-poly, pop-up, spinning toys.**  
Examples are:

How many of these toys do you use to play with your infant at home?  
None ☐ One-two ☐ Three or more ☐

AHEMD-IS consists of fine motor, gross motor, physical space, and variety of stimulation subscales, and provides a total score.

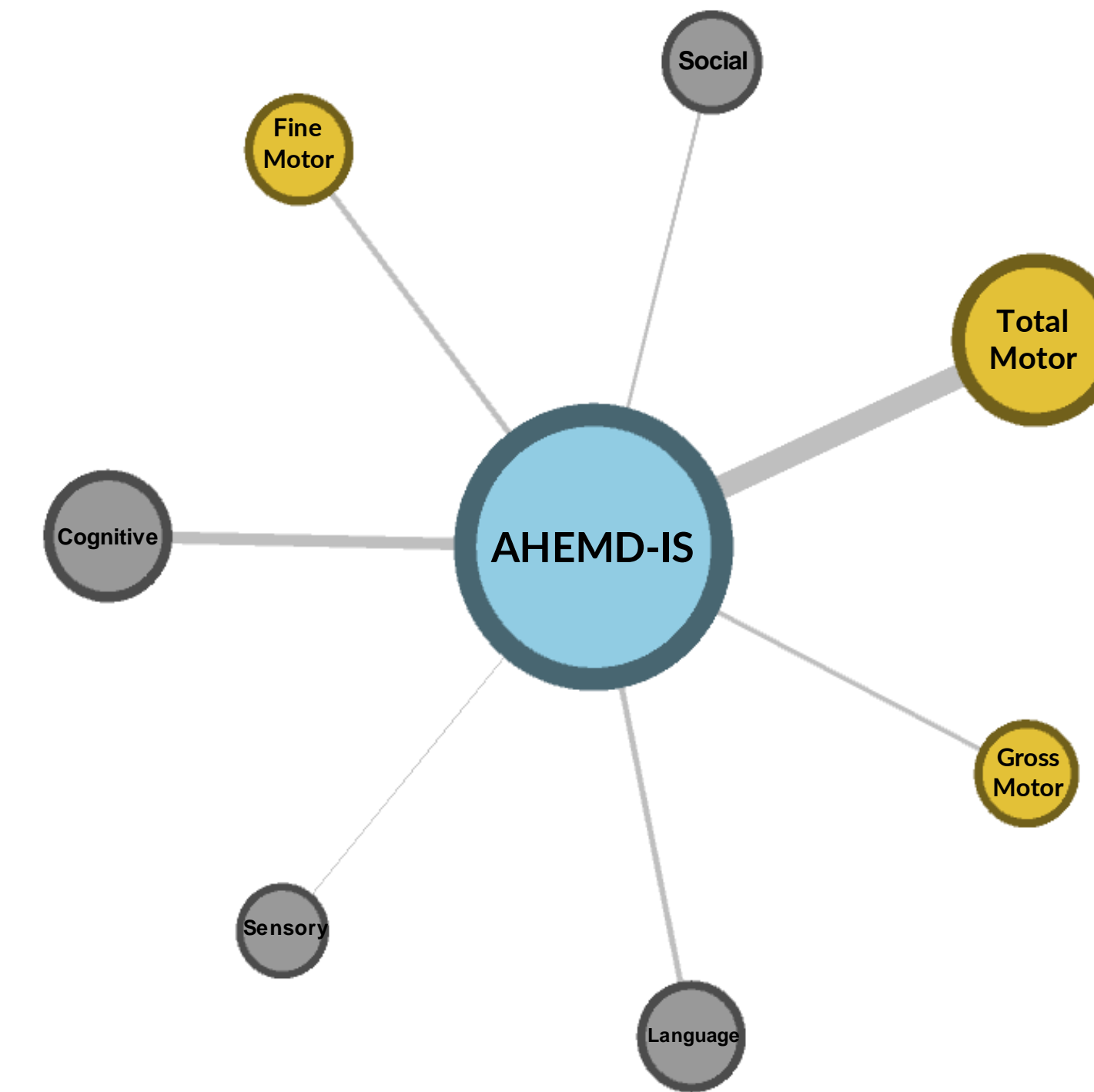
# The home environment is a significant predictor of infant developmental outcomes



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### RESULTS:

- The AHEMD-IS subscales and total score **differentially predict** motor outcomes.



AHEMD-IS predictor	Outcome	# Sig	Age ranges (months)
Total Score	Total Motor	9	3-16, 6-15, 6-18, 6-30, 7-16, 7-11, 8-10, 8-10
Total Score	Gross Motor	2	3-11, 7-16
Total Score	Fine Motor	3	3-11, 9 and 15, 7-16
Gross Motor Toys Subscale	Total Motor	3	0-18, 3-11, 6-30
Gross Motor Toys Subscale	Gross Motor	3	3 and 6 and 9 and 12, 3-18, 7-16
Gross Motor Toys Subscale	Fine Motor	3	3-11, 3-18, 7-16
Fine Motor Toys Subscale	Total Motor	3	0-18, 3-11, 6-30
Fine Motor Toys Subscale	Gross Motor	1	3-11
Fine Motor Toys Subscale	Fine Motor	4	3 and 6 and 9 and 12, 3-11, 3-18, 7-16
Variety of Stimulation Subscale	Total Motor	1	6-30
Variety of Stimulation Subscale	Gross Motor	3	3-11, 12-18
Variety of Stimulation Subscale	Fine Motor	1	3-18
Physical Dimension Subscale	Total Motor	3	0-18, 3-16, 3-18
Physical Dimension Subscale	Gross Motor	2	3-18, 7-16
Physical Dimension Subscale	Fine Motor	1	7-16

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