Early Verb Production in Autism Spectrum Disorder (ASD)  
Kaya J. LeGrand¹, Julia Parish-Morris², & Letitia Naigles¹  
¹University of Connecticut, ²Children’s Hospital of Philadelphia

### Background
- Verb diversity in childhood predicts adult language and communication outcomes in ASD.
- But does ASD often involve difficulty with early verb production?
- Past work measuring verb vocabulary via parent-report checklists shows mixed results, but what about verb use over time in a naturalistic context?
- This project investigates naturalistic verb production in ASD in two ways:
  1. Overall verb diversity (i.e., verb types)
  2. Use of verbs in subcategories: Action (e.g., eat, run), General all-purpose (GAP; e.g., want, go), Internal state (e.g., think, hope)

### Research Questions
1. How does early verb diversity in ASD compare to early verb diversity in typical development?
2. What does production within verb subcategories look like in ASD and typical development?

### Results
The ASD group produced a significantly lower proportion of verb types (out of total word types) than the TD group at V6. No significant group differences emerged at V1-5.

### Methods
- Data from larger longitudinal sample
- ASD: n = 22; TD: n = 22
- Six parent-child play sessions analyzed for each child (V1-V6), each four months apart
  - Groups matched on expressive language at V1
  - ASD mean age at V1 = 31.920 months
  - TD mean age at V1 = 19.991 months
- Videos of parent-child play sessions transcribed and coded using CLAN
- Verbs tagged as action, GAP, or internal state

### Discussion
- Group-level differences in proportion of verb types only emerged at one timepoint (V6)
- However, the ASD group demonstrated more variable trajectories of verb type proportions over time, reflecting the overall heterogeneity in language in ASD
- Overall, ASD does not seem to involve differences in proportional production of verbs within subcategories (action, GAP, or internal state)
- Future questions: Is verb production more influenced by overall language level or ASD diagnosis/characteristics? Does children’s verb use within subcategories relate to later language/communication skills? Does verb use vary by play context in ASD and typical development?

### References

*Images and diagrams not included in this text.*