Online supplemental material, Armstrong et al., "Predicting Language Difficulties in Middle Childhood From Early Developmental Milestones: A Comparison of Traditional Regression and Machine Learning Techniques," Journal of Speech, Language, and Hearing Research, https://doi.org/10.1044/2018_JSLHR-L-17-0210

Typical versus delayed language at 10 years *n* = 884 IMQ at 3 years^a Adjusted OR (95% CI)^b p value Communication Item 1 Yes Reference Sometimes 2.53 (1.44-4.45) .001 Not yet 7.33 (0.92–58.30) .060 Communication Item 2 Yes Reference Sometimes 7.74 (1.06–56.44) .044 Not yet ___ c **Communication Item 3** Yes Reference 0.73 (0.22–2.48) Sometimes .620 Not yet 0.39 (0.02-6.48) .511 **Communication Item 4** Yes Reference Sometimes 1.18 (0.65–2.17) .585 Not yet 0.77 (0.10-5.80) .799 **Communication Item 5** Yes Reference Sometimes 1.49 (0.59–3.81) .399 0.26 (0.03-2.30) Not yet .225 **Communication Item 6** Yes Reference Sometimes 1.10 (0.73–1.66) .649 Not yet 1.89 (1.20-2.97) .006 Gross Motor Item 4 Yes Reference Sometimes 0.96 (0.53–1.73) .883 1.16 (0.36-3.71) Not vet .809 Gross Motor Item 5 Yes Reference Sometimes 0.72 (0.28–1.87) .507 Not yet 0.74 (0.11–5.06) .759 Gross Motor Item 6 Yes Reference 2.18 (1.15-4.11) .016 Sometimes 3.01 (0.81–11.19) .100 Not yet Fine Motor Item 1 Yes Reference Sometimes 0.37 (0.12-1.09) .071 Not yet 0.69 (0.16-2.94) .620 Fine Motor Item 2 Yes Reference Sometimes 1.52 (0.59-3.92) .390 0.80 (0.21-3.02) .747 Not yet

Supplemental Material S5. Results from multivariate logistic regression with all Infant Monitoring Questionnaire (IMQ, Squires, Bricker, & Potter, 1990) items at 3 years.

Online supplemental material, Armstrong et al., "Predicting Language Difficulties in Middle Childhood From Early Developmental Milestones: A Comparison of Traditional Regression and Machine Learning Techniques," Journal of Speech, Language, and Hearing Research, https://doi.org/10.1044/2018_JSLHR-L-17-0210

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Note. OR = odds ratio. Bold values indicate statistical significance (p < .05). ^aOnly includes items from the IMQ that were significant in chi-square analyses. ^bAll models adjusted for maternal education, income, and sex. ^cNo participants in this category.

Reference

Squires, J., Bricker, D., & Potter, A. (1990). *Infant/child monitoring questionnaires procedures manual*. Eugene, OR: University of Oregon.