Meaningful moments in children’s real-life interactions with caregivers: A study of English- and Spanish-speaking families from diverse SES backgrounds

Virginia A. Marchman, Janet Y. Bang, Mónica A. Munévar, Anne Femald
Department of Psychology, Stanford University

Introduction

• Individual differences in caregivers’ early verbal engagement with their children vary as a function of SES and are related to variability in children’s later language and cognitive outcomes.

• To better convey how caregivers can support children’s language learning, our message must move beyond ‘engage more’ to provide practical suggestions for how to create enriching interactions during typical, everyday activities that are appropriate for diverse families.

• The contexts in which caregiver-child interactions occur affect the quantity and quality of caregiver talk. Dunn et al., 2018; Hart & Risley, 2013; LeMonda et al., 2018; Snow, 1976. This finding contrasts those of previous studies which relied on standardized, rather than spontaneous, recording settings.

• Using samples of the densest talk from all-day naturalistic recordings, we characterize caregiver talk in English- and Spanish-speaking families from diverse SES backgrounds, asking whether talk in these contexts differentially relates to children’s long-term outcomes.

Method

1. The quantity and quality of verbal engagement between caregivers and 2-year-old children are reduced during book sharing. Dunn et al., 2018; Hart & Risley, 2013; LeMonda et al., 2018; Snow, 1976. This finding contrasts those of previous studies which relied on standardized, rather than spontaneous, recording settings.

2. The relation between the quantity and quality of verbal engagement with English-speaking families who represent a broad spectrum of lower-SES backgrounds.

3. The relation between features of caregiver verbal engagement and children’s language outcomes vary by context?

• Dense, spontaneous, everyday interactions between children and their caregivers during many different types of child-centered contexts (e.g., book sharing, meals, dressing, play). Via these naturalistic, day-long recordings, we also observed that caregivers and children frequently engaged in unstructured conversations and adult-centered contexts.

• In English-speaking families, children from higher- vs. lower-SES background heard MORE TALK overall, regardless of context. Dunn et al., 2018; Snow, 1976. This finding contrasts those of previous studies which relied on standardized, rather than spontaneous, recording settings.

• In English-speaking families, higher-SES families spent more TIME during child-centered interactions, compared to lower-SES families. The time spent during adult-centered interactions did NOT vary as a function of SES. This suggests that an area to emphasize for lower-SES families could be talk during adult-centered activities.

• For Spanish-speaking families, total talk and conversational turns at 2 years were associated with BETTER Spanish language outcomes at 4.5 years old. Such positive relations were evident regardless of context, suggesting that increases in talk during book-reading, as well as in child-centered and adult-centered contexts, can be supportive of children’s language learning.

Objectives

1. Sampling the densest hour of talk from all-day LENA recordings, during what everyday contexts are caregivers engaging the most with their 2-year-old children? Does dense talk occur primarily in book sharing?

2. Does the relation between SES and features of caregiver verbal engagement vary by context? We focus on English-speaking families who represent a broad spectrum of lower-SES backgrounds.

3. The relation between features of caregiver verbal engagement and children’s language outcomes vary by context? We focus on Spanish-speaking families for whom we have follow-up data at 4.5 years.

Results: How does SES x caregivers’ verbal engagement vary by context?

<table>
<thead>
<tr>
<th>Measure</th>
<th>English</th>
<th>Spanish</th>
</tr>
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<tbody>
<tr>
<td>Child age at 2 years (months)</td>
<td>24.4 (.8)</td>
<td>25.8 (.7)</td>
</tr>
<tr>
<td>Child age at 4.5 years (months)</td>
<td>NA</td>
<td>57.48 (.1)</td>
</tr>
<tr>
<td>Maternal Education (years)</td>
<td>13.8 (2.2)</td>
<td>11.0 (3.5)</td>
</tr>
<tr>
<td>SES at 18m</td>
<td>37.8 (15.2)</td>
<td>24.3 (9.5)</td>
</tr>
<tr>
<td>LENAE Recording Length</td>
<td>10.9 (3.7)</td>
<td>13.2 (3.8)</td>
</tr>
<tr>
<td>Mean AWC/10 min of dense talk</td>
<td>472.9 (280.9)</td>
<td>581.2 (261.8)</td>
</tr>
<tr>
<td>Language Outcome at 4.5 years (composite of CELF-4 and PPTVT)</td>
<td>NA</td>
<td>96.1 (16.8)</td>
</tr>
</tbody>
</table>

Mean AWC/10 min of dense talk

• Higher-SES vs. lower-SES caregivers talk more to their children during all contexts, but the rate of conversational turns does not vary across SES.

Future Directions

• In ongoing work, we are transcribing all interactions to obtain more precise estimates of talk and turns between caregivers and children, as well as other variables of the quality of the language input (i.e., types, MLU, repetitions, expansions).

• We are also planning to follow-up with English-speaking families when the children are 8-10 years old to better understand the long-term consequences of early caregiver-child interactions across families from a broad range of SES backgrounds.

References


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