LENA GROW | Impact

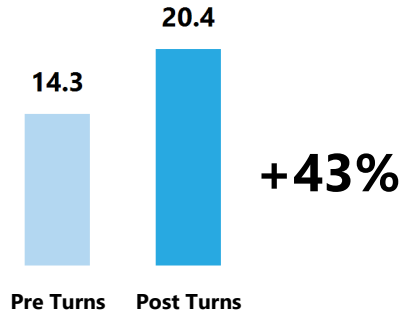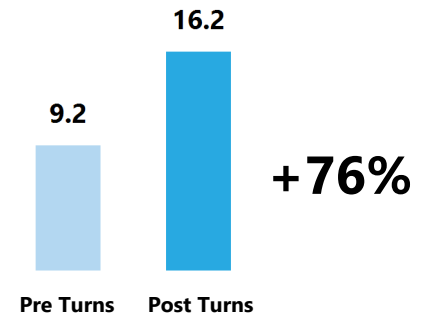## Child Equity

LENA Grow is designed to encourage more equitable talk environments. Two segments of children measure this impact:

14.3 Pre Turns
20.4 Post Turns

+43%

9.2 Pre Turns
16.2 Post Turns

+76%

Children who started out experiencing **less talk than their peers in the same classroom** (in the bottom third) had an average increase of **+6.1 turns per hour.**

Children who started out experiencing **less talk than the national median of 15 turns per hour** had an average increase of **+7 turns per hour.**

Teachers

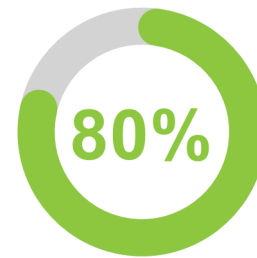At the end of a 5-week sequence, teachers complete a survey reporting on the impact of the LENA Grow program.

93%
Recommend LENA Grow to other teachers
(n=423)

89%
Now feel **more confident** in teaching abilities
(n=423)

89%
Increased overall **job satisfaction**
(n=422)

80%
Increased **communication with families**
(n=423)

91%
Saw changes in **children's language development**
(n=422)

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LENA GROW | Impact

By the Numbers

4035
Children

713
Teachers

464
Classroom Groups

All Children

Conversational Turns

24.6
Pre

27.2
Post

+11%
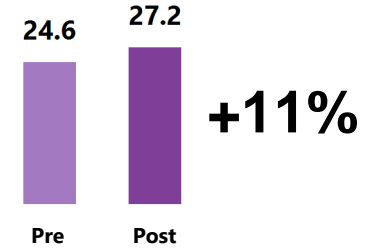
Average increase of
+2.6 Turns per hour.

Reference: LENA Benchmarks

Language Isolation

Average hourly interactions in center-based child care

Average hourly interactions in family child care

Optimal early talk environment

0 turns/hour   5 turns/hour   15 turns/hour   25 turns/hour   40 turns/hour
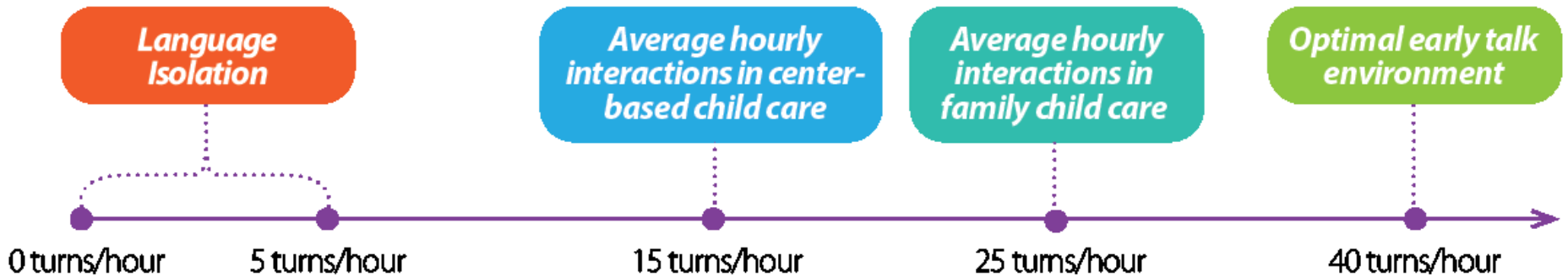
These conversational turns benchmarks are derived from the baseline LENA data of more than 15,000 children across more than 2,000 classrooms worldwide. Publicly funded, privately funded, center-based, and family child care sites are all represented within the sample, as are all 10 Head Start regions. Further information can be found at lena.org/research.

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Child Impact Statistics

Conversational Turn per Hour

Impact Segment	Sample Size	Pre Mean	Post Mean	Mean Δ	Percent Δ	Cohen's d*	Effect Size
All Participants	3358	24.6	27.2	2.6	11	0.2	small
Bottom Third of Room	969	14.3	20.4	6.1	43	0.6	medium
Low Talk (<15 Turns)	1094	9.2	16.2	7	76	1.9	large

*Cohen's d is a commonly used measurement of the standardized mean difference, and is used here to determine effect size.
Cohen's d Effect size key: d of less than 0.5 is "small;" d of 0.5 to 0.8 is "medium;" d of 0.8 or greater = "large."

About LENA Grow

What is LENA Grow?
- **Evidence-based, job-embedded professional development** program for early childhood educators.
- Helps educators truly **connect with every child** in their care.
- Measurably and sustainably **increases conversational turns**.

What are conversational turns?
- **Back-and-forth talk** between a child and an adult.
- LENA's **unique technology counts the conversational turns** each child experiences across the day.

What do these results mean?
- Increasing conversational turns is shown to boost children's **language, literacy**, and **social emotional** development while improving both **teacher satisfaction** and **classroom quality**.
- Up to 40 conversational turns per hour, each increase of **two turns per hour** is associated with a **one-point increase in Full Scale IQ**.

Report Population

Classroom Groups
Must complete 5 LENA Days to meet impact criteria.

Impact Criteria	Legacy	Grow 1
Meets	0	453
Does Not Meet	0	11
Total	0	464

Children
Must complete 3 LENA Days to meet impact criteria.

Impact Criteria	Legacy	Grow 1
Meets	0	3358
Does Not Meet	0	677
Total	0	4035

Teachers
Must complete 5 weeks of LENA coaching to certify.

Certification Criteria	Grow 1
Meets	667
Does Not Meet	46
Total	713