

Technical Supplement Table 1. Birth Outcomes in Guilford County and North Carolina, 2014-2023

Outcome (%)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Reported smoking during pregnancy										
Guilford	6.4	5.9	5.3	5.0	5.6	5.4	5.3	4.3	3.5	2.4
North Carolina	9.8	9.4	8.9	8.7	8.4	7.6	6.8	5.6	4.5	3.6
Began prenatal care										
First trimester										
Guilford	59.2	61.2	62.2	61.8	60.4	63.5	69.5	72.1	70.9	71.2
North Carolina	69.0	68.6	69.6	69.3	68.7	68.2	74.0	74.5	72.4	72.7
Second trimester										
Guilford	31.5	29.6	30.3	29.9	28.4	27.5	22.7	20.2	21.4	20.3
North Carolina	23.7	23.8	23.4	23.1	23.5	23.0	18.4	17.2	18.2	18.5
Third trimester										
Guilford	8.1	7.5	6.6	7.2	9.2	7.3	5.7	5.5	5.9	6.2
North Carolina	5.4	5.3	5.5	5.8	6.0	6.2	4.7	4.5	4.9	4.7
Never										
Guilford	1.3	1.7	0.9	1.1	2.0	1.8	2.1	2.2	1.9	2.4
North Carolina	1.9	2.3	1.6	1.8	1.9	2.5	2.9	3.8	4.6	4.2
Birth weight										
Less than 1,500 grams										
Guilford	2.2	2.2	1.7	2.1	1.6	1.8	1.8	1.7	2.0	2.0
North Carolina	1.7	1.8	1.7	1.7	1.6	1.7	1.7	1.6	1.6	1.6
1,500-2,499 grams										
Guilford	7.7	8.0	7.5	8.3	8.1	7.8	9.1	8.9	7.7	8.9
North Carolina	7.2	7.4	7.6	7.7	7.6	7.6	7.8	7.8	7.8	7.8
2,500 grams or more										
Guilford	90.2	89.8	90.9	89.6	90.3	90.4	89.0	89.5	90.4	89.1
North Carolina	91.1	90.8	90.8	90.6	90.7	90.7	90.5	90.5	90.6	90.6

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Technical Supplement Table 1 (continued)

Outcome (%)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Sample size										
Guilford	6,085	6,095	6,258	6,218	6,115	6,045	5,927	5,794	5,883	5,757
North Carolina	120,948	120,826	120,765	120,099	118,957	118,725	116,755	120,501	121,557	120,065

SOURCE: North Carolina Department of Vital Statistics.

NOTE: Sample sizes vary due to missing data.

Technical Supplement Table 2. Child Health Care Outcomes at Age 0 in Guilford County, 2016-2021

Outcome	2016	2017	2018	2019	2020	2021
Number of well-child visits in the past year	4.0	4.1	4.1	4.1	3.9	3.9
Number of immunizations in the past year	6.1	5.4	5.5	5.5	5.5	5.5
ED visits						
Any ED visits in the past year (%)	30.7	29.3	29.4	28.5	18.8	26.3
Number of ED visits in the past year	0.5	0.5	0.5	0.5	0.3	0.4
Hospitalizations						
Any hospitalizations in the past year (%)	3.7	5.0	4.9	5.1	3.9	4.2
Number of hospitalizations in the past year	0.04	0.05	0.06	0.06	0.04	0.05
Sample size	3,892	3,958	3,808	3,771	2,558	2,988

SOURCE: Medicaid records.

NOTES: Numbers reflect events that occurred in the calendar year that the child was born. All outcomes in this table refer to Medicaid-paid services for children eligible for Medicaid. Data quality affected the sample size in 2020 and 2021.

ED = emergency department.

Technical Supplement Table 3. Child Health Care Outcomes at Age 1 in Guilford County, 2016-2021

Outcome	2016	2017	2018	2019	2020	2021
Number of well-child visits in the past year	3.1	3.2	3.1	3.0	2.7	2.8
Number of immunizations in the past year	7.2	7.0	6.7	6.6	6.3	6.5
ED visits						
Any ED visits in the past year (%)	47.8	46.0	45.8	46.7	32.6	36.9
Number of ED visits in the past year	1.0	0.9	0.9	1.0	0.5	0.7
Hospitalizations						
Any hospitalizations in the past year (%)	3.2	2.7	3.0	3.5	1.9	2.3
Number of hospitalizations in the past year	0.04	0.03	0.04	0.05	0.02	0.03
Sample size	4,254	4,247	4,361	4,296	3,404	4,088

SOURCE: Medicaid records.

NOTES: Numbers reflect events that occurred in the calendar year that the child turned 1 year old. All outcomes in this table refer to Medicaid-paid services for children eligible for Medicaid. Data quality affected the sample size in 2020 and 2021.

ED = emergency department.

Technical Supplement Table 4. Child Health Care Outcomes at Age 2 in Guilford County, 2016-2021

Outcome	2016	2017	2018	2019	2020	2021
Number of well-child visits in the past year	1.6	1.6	1.6	1.4	1.2	1.2
Number of immunizations in the past year	2.1	2.2	2.0	1.7	1.8	1.9
ED visits						
Any ED visits in the past year (%)	42.9	40.4	40.8	40.5	27.4	30.6
Number of ED visits in the past year	0.8	0.8	0.8	0.7	0.4	0.5
Hospitalizations						
Any hospitalizations in the past year (%)	1.7	1.7	1.7	1.8	0.9	1.0
Number of hospitalizations in the past year	0.02	0.02	0.02	0.02	0.01	0.01
Sample size	4,307	4,281	4,250	4,230	3,754	4,214

SOURCE: Medicaid records.

NOTES: Numbers reflect events that occurred in the calendar year that the child turned 2 years old. All outcomes in this table refer to Medicaid-paid services for children eligible for Medicaid. Data quality affected the sample size in 2020 and 2021.

ED = emergency department.

Technical Supplement Table 5. Child Health Care Outcomes at Age 3 in Guilford County, 2016-2021

Outcome	2016	2017	2018	2019	2020	2021
Number of well-child visits in the past year	0.7	0.7	0.8	0.7	0.7	0.7
Number of immunizations in the past year	0.6	0.7	0.6	0.6	0.5	0.6
ED visits						
Any ED visits in the past year (%)	36.1	33.7	33.3	34.1	21.0	25.3
Number of ED visits in the past year	0.6	0.6	0.6	0.6	0.3	0.4
Hospitalizations						
Any hospitalizations in the past year (%)	1.0	1.2	1.1	1.0	0.8	0.9
Number of hospitalizations in the past year	0.01	0.01	0.01	0.01	0.01	0.01
Sample size	4,237	4,267	4,265	4,184	3,927	4,203

SOURCE: Medicaid records.

NOTES: Numbers reflect events that occurred in the calendar year that the child turned 3 years old. All outcomes in this table refer to Medicaid-paid services for children eligible for Medicaid. Data quality affected the sample size in 2020 and 2021.

ED = emergency department.

Technical Supplement Table 6. Kindergarten Outcomes in Guilford County and North Carolina, 2014-2024

Outcome	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Chronic absence ^a (%)	—	15.6	14.4	18.5	17.8	19.1	9.7	31.4	37.9	34.7	33.9
Suspension (%)	0.8	1.1	1.3	1.4	1.0	0.9	0.3	0.2	0.6	0.9	0.4
NWEA math	—	—	—	—	—	—	—	—	141.0	140.5	140.2
NC-ELI^b											
Social-emotional development and learning (composite)	—	—	—	—	—	—	—	—	30.9	28.5	28.1
Manages feelings (%)	—	—	—	—	—	—	—	—	70.4	59.6	57.1
Follows limits and expectations (%)	—	—	—	—	—	—	—	—	77.8	66.6	68.6
Responds to emotional cues (%)	—	—	—	—	—	—	—	—	70.4	67.4	66.7
Interacts with peers (%)	—	—	—	—	—	—	—	—	74.0	64.9	69.5
Solves social problems (%)	—	—	—	—	—	—	—	—	46.4	39.9	39.3
Physical development											
Uses fingers and hands (%)	—	—	—	—	—	—	—	—	58.3	52.6	52.2
Cognition											
Attends and engages (%)	—	—	—	—	—	—	—	—	60.8	54.1	56.3
Language and literacy											
Follows directions (%)	—	—	—	—	—	—	—	—	31.4	22.1	29.2
Tells about another time or place (%)	—	—	—	—	—	—	—	—	57.4	50.1	51.7
Notices and discriminates rhyme (%)	—	—	—	—	—	—	—	—	50.1	45.9	46.6
Notices and discriminates alliteration (%)	—	—	—	—	—	—	—	—	71.9	71.0	69.4
Uses and appreciates books and other texts (%)	—	—	—	—	—	—	—	—	—	44.4	44.3
Uses print concepts (%)	—	—	—	—	—	—	—	—	—	69.7	68.6
Mathematics											
Counts	—	—	—	—	—	—	—	—	45.8	39.1	42.5
Quantifies	—	—	—	—	—	—	—	—	44.1	39.6	39.2
Connects numerals with their quantities	—	—	—	—	—	—	—	—	63.5	59.4	59.4

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Technical Supplement Table 6 (continued)

Outcome	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
DIBELS: Beginning of Year^c											
DIBELS composite	41.5	39.6	35.2	34.8	32.5	30.0	—	—	285.2	289.4	292.2
DIBELS composite at or above the benchmark (%)											
Guilford County	69.2	65.2	59.8	58.8	53.5	50.8	—	—	26.9	30.4	32.6
North Carolina	—	—	—	—	—	—	—	—	27.0	28.0	33.0
Average score											
Letter-naming fluency	—	24.3	22.2	21.5	20.3	18.5	—	—	16.0	17.6	18.5
Phonemic segmentation fluency	—	—	—	—	—	—	—	—	4.5	4.9	5.2
Nonsense-word fluency — correct letter sounds	—	—	—	—	—	—	—	—	9.0	9.1	6.0
Nonsense-word fluency — words recoded correctly	—	—	—	—	—	—	—	—	1.0	1.0	0.6
Word-reading fluency	—	—	—	—	—	—	—	—	3.1	2.9	2.1
First-sound fluency	—	15.2	13.0	13.3	12.2	11.5	—	—	—	—	—
DIBELS: End of Year^c											
DIBELS composite	156.4	157.5	151.8	155.5	149.3	152.4	—	—	444.8	451.1	450.2
DIBELS composite at or above the benchmark (%)											
Guilford County	85.6	82.9	79.3	81.3	76.6	77.5	—	—	70.6	73.8	72.5
North Carolina	—	—	—	—	—	—	—	—	67.0	75.0	73.0

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Technical Supplement Table 6 (continued)

Outcome	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Average score											
Letter-naming fluency	—	56.1	53.9	54.7	51.5	50.5	—	—	48.5	52.1	51.3
Phonemic segmentation fluency	—	53.8	51.2	53.5	50.5	53.8	—	—	44.3	47.4	46.9
Nonsense-word fluency — correct letter sounds	—	47.6	46.7	47.3	47.3	48.1	—	—	48.0	51.2	50.8
Nonsense-word fluency — words recoded correctly	—	—	—	—	—	—	—	—	12.0	13.8	13.6
Word-reading fluency	—	—	—	—	—	—	—	—	16.5	17.1	17.1
Sample size ^d	5,893	5,754	5,534	5,367	5,611	5,505	5,442	4,879	5,097	5,077	4,928

SOURCE: Guilford County Schools and North Carolina Department of Public Instruction.

NOTES: NWEA = Northwest Evaluation Association; NC-ELI = North Carolina Early Learning Inventory; DIBELS = Dynamic Indicators of Basic Early Literacy Skills.

Statewide data are included only for outcomes where such data are available. For those measures, the table includes both Guilford County and shaded North Carolina rows. Unless otherwise noted, all data reflect outcomes for Guilford County.

^aStudents are defined as chronically absent if they were absent for 10 percent or more of the school days in a given year.

^bThe NC-ELI is an observation-based tool completed by teachers in the first 60 days of the kindergarten year. It is composed of 16 indicator scores from five areas or domains, implemented using the Teaching Strategies Gold platform. This brief presents data on the NC-ELI from Guilford County Schools beginning in school year 2021-2022. The social-emotional learning composite is a sum of the raw scores of the items in the social-emotional learning domain. All other NC-ELI measures are presented as the percentage of children at or above the threshold for “widely held expectations.”

^cThe DIBELS is a formative reading assessment that is administered at the beginning, middle, and end of the school year. The DIBELS was not administered in Guilford County in the 2019-2020 and 2020-2021 school years. The DIBELS Next was administered up to the 2018-2019 school year. Starting in 2021, the DIBELS 8 was administered. Subtask scores are missing if they were not part of the recommended administration for the time of year for the edition being used. The method for calculating composite scores was changed for the DIBELS 8. Although raw scores on the subtasks are calculated in a similar way across editions, differences in scores across the editions should be interpreted with caution.

^dThe exact number of kindergartners in North Carolina varies by year. From the 2015-2016 school year to the 2022-2023 school year, enrollment ranged from 102,311 to 116,324. Enrollment data are not yet available for the 2023-2024 school year.

Technical Supplement Table 7. Third-Grade Outcomes in Guilford County and North Carolina, 2014-2024

Outcome (%)	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Chronic absence	—	9.6	8.0	12.2	12.1	13.0	6.0	22.5	30.3	25.4	24.7
Suspension	1.9	2.5	2.4	3.3	2.9	2.7	1.4	0.3	1.7	1.8	1.1
EOG language/literacy proficiency											
Guilford	—	—	—	53.4	51.4	53.1	—	46.0	45.1	41.1	44.4
North Carolina	—	—	—	57.8	55.9	56.8	—	45.1	46.4	47.8	48.6
EOG math proficiency											
Guilford	—	—	—	58.0	59.2	60.8	—	47.8	57.0	58.7	59.2
North Carolina	—	—	—	63.6	64.8	64.3	—	44.5	57.1	60.9	62.4
Special education	14.0	15.2	14.5	13.5	14.7	13.9	13.7	12.0	12.1	14.2	16.3
Sample size ^a	5,728	5,742	5,760	5,926	5,852	5,516	5,315	5,365	5,273	5,313	4,995

SOURCE: Guilford County Schools.

NOTES: EOG = End of Grade. Reading and math scores are presented as the percentage of students who were proficient on the North Carolina Standard Course of Study for English Language Arts and Math, respectively, at the end of third grade. The End of Grade Test was not administered in 2020. Statewide data are included only for outcomes where such data are available. For those measures, the table includes both Guilford County and shaded North Carolina rows. Unless otherwise noted, all data reflect outcomes for Guilford County.

^aThe exact number of third-graders in North Carolina varies by year. From the 2015-2016 school year to the 2022-2023 school year, enrollment ranged from 112,193 to 122,483. Enrollment data are not yet available for the 2023-2024 school year.