



**GEORGIA
POLICY LABS**



Appendix to:

The Stability of Subsidized Childcare in Georgia

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Appendix A. Construction of the Analysis Measures

Files and records. All the measures in our analyses are constructed from weekly CAPS program payment records from January 1, 2015, to March 13, 2020. Records for children are linked over time using a person identifier that is constructed by the Georgia Policy Labs (GPL). The GPL identifier is formed by matching children's names, dates of birth, Social Security numbers, and DECAL identifying number. Because this identifier is different from DECAL's identifiers, longitudinal linkages in this report will differ slightly from linkages used by DECAL.

Scholarship receipt. Children in the data receive a scholarship. Among these children, we additionally identify those who are in a payment spell or a no-payment spell. Children who are in a payment spell are those for which DECAL paid a reimbursement rate for a specific week.

Primary provider. In weeks with multiple paid providers, we identify the primary provider as the provider that received the most total payments from DECAL for the child. If a child had only one paid provider, that is the primary provider.

Spell duration variables. We construct linear spline variables (piecewise linear functions) of the spell and sub-spell durations using knots at the 4th, 26th, and 52nd weeks of each duration. We also include indicators for whether the spell or sub-spell was in an anniversary week (e.g., 52nd week, 104th week).

Children's demographic characteristics. We form indicators for gender using the modal response for children across their eligibility periods. We use the mode to address potential differences in response across time. We form indicators for race and ethnicity using the modal response for children across their eligibility periods. The race-ethnicity categories are mutually exclusive. Black children refer to non-Hispanic Black children, White children refer to non-Hispanic White children, and so on. We form indicators for children's year and month of birth using the modal response for children across their eligibility periods. From these indicators, we calculate each child's age in a given week.

Other household children with scholarships. We construct a measure that identifies whether there is another child receiving a CAPS scholarship with the same parental authority at any point between 2015 and 2020.

Gross income. We construct a measure of the logarithm of gross income reported by parental authorities. In addition, we create an indicator for families whose gross income is zero.

Parent age. We form indicators for the parent's year and month of birth using the modal response for parents—or parental authority—across their children's eligibility periods. From these indicators, we calculate the parent's age. We assign a missing value to any parental age under 15 or greater than 90 and for children without a parental authority (e.g., children in foster care).

Geographic zone. We use the child's county of residence to create indicators to identify children's residence in each of the CAPS payment zones that are used to set scholarship's reimbursement rates (see caps.decal.ga.gov/assets/downloads/CAPS/AppendixC-CAPS%20Reimbursement%20Rates.pdf for details of the zones).

Type of provider. We form indicators to identify three main types of care providers: centers, family childcare learning homes, and informal providers. We exclude group home observations in the analysis because they represent less than .01% of total observations.

Type of care. We construct indicators that identify whether the child was attending full-time care (care for 3–5 days per week), before- and/or after-school care, or night-time or part-time care (care for 1–2 days per week).

Provider capacity. We form an indicator that uses historical data from the DECAL Provider Data Export (families.decal.ga.gov/Provider/Data) to identify each provider's license capacity. Because data are not available for every week, we carry information forward from the last week that information is available through future weeks until new information is available.

Quality rating. We create indicators for whether the provider at a specific point in time has a Quality Rated star level and, if rated, for whether it has a one-, two-, or three-star rating.

Proximity of care. We construct a categorical indicator of whether the childcare provider is located in (a) the same ZIP Code as the child's residence, (b) a ZIP Code that is adjacent to the child's, or (c) in a ZIP Code that is not adjacent to the child's.

Family fee. We form indicators that identify whether a family paid a family fee as part of their scholarship use, another for children who were using CAPS but paid no fee, and an indicator for families that were not using their CAPS scholarship and hence did not pay a fee.

Priority group status. The scholarship records include a Uniform Accounting System code that identifies children in priority groups and other groups. We use the codes from the first week of each scholarship spell to identify initial priority group status.

Time variables. We construct measures that indicate the calendar year and month of each week of scholarship holding. Within 2016, we distinguish whether the week was before or after October 1 when important CAPS continuing eligibility changes were implemented.

Missing values. We form an indicator for missing values for several explanatory variables we use. If a value of the variable is a missing value at a point in time, we set the value of the underlying variable to zero and set the indicator for a missing value to one.

Appendix B. Survival and Cumulative Hazard Probabilities

Figure B1. Survival Probabilities of the Timing of Exits from Spells of Scholarship-Holding

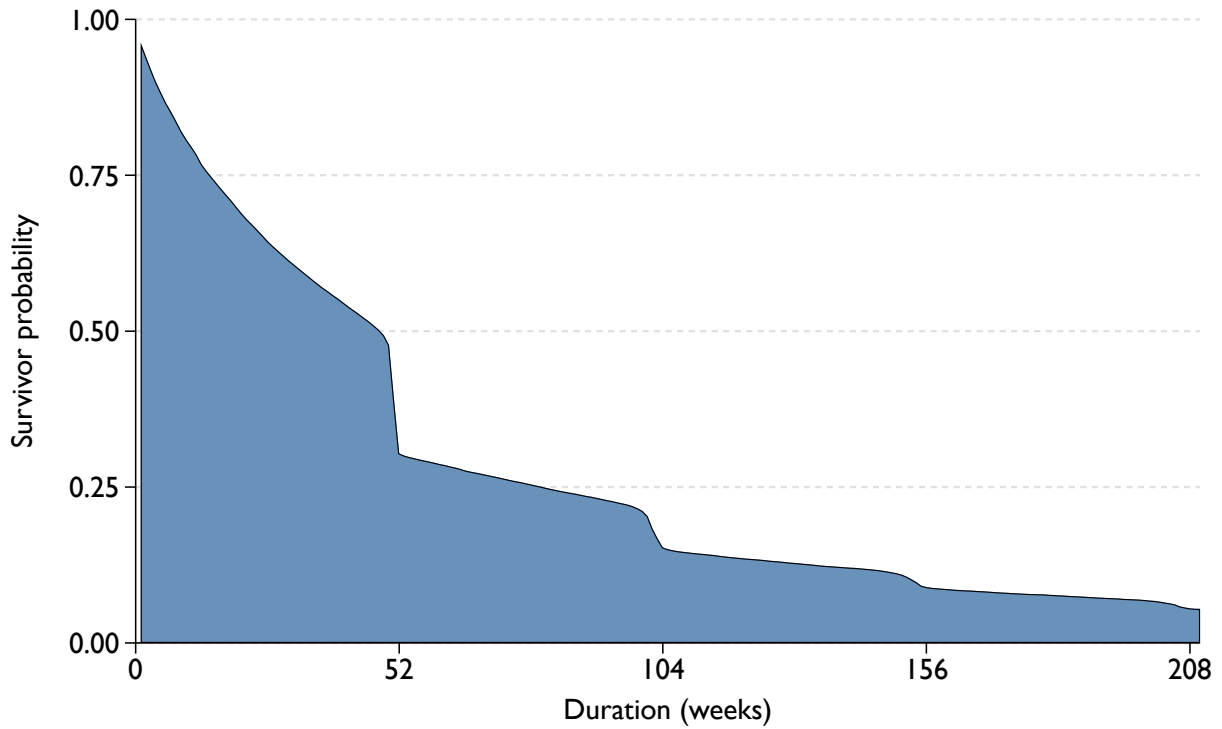


Figure B2. Survival and Cumulative Hazard Probabilities of the Timing of Different Types of Exits from Spells of Payments to a Particular Provider (Care Arrangement Spells)

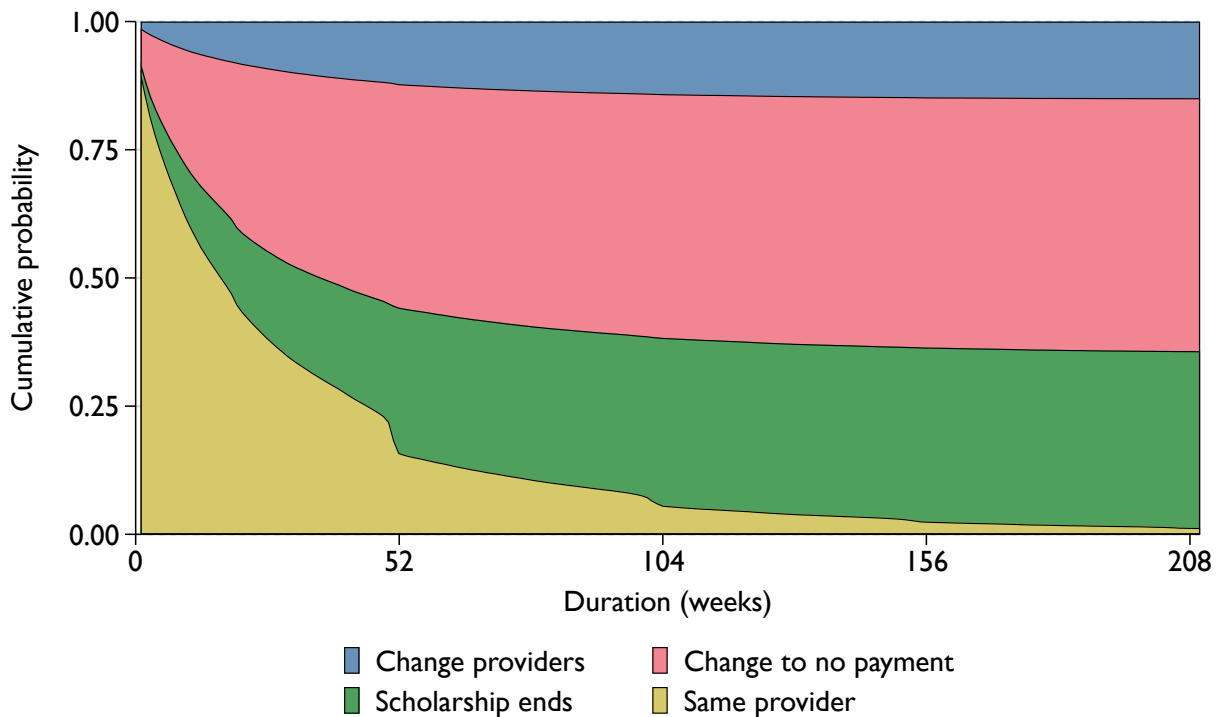
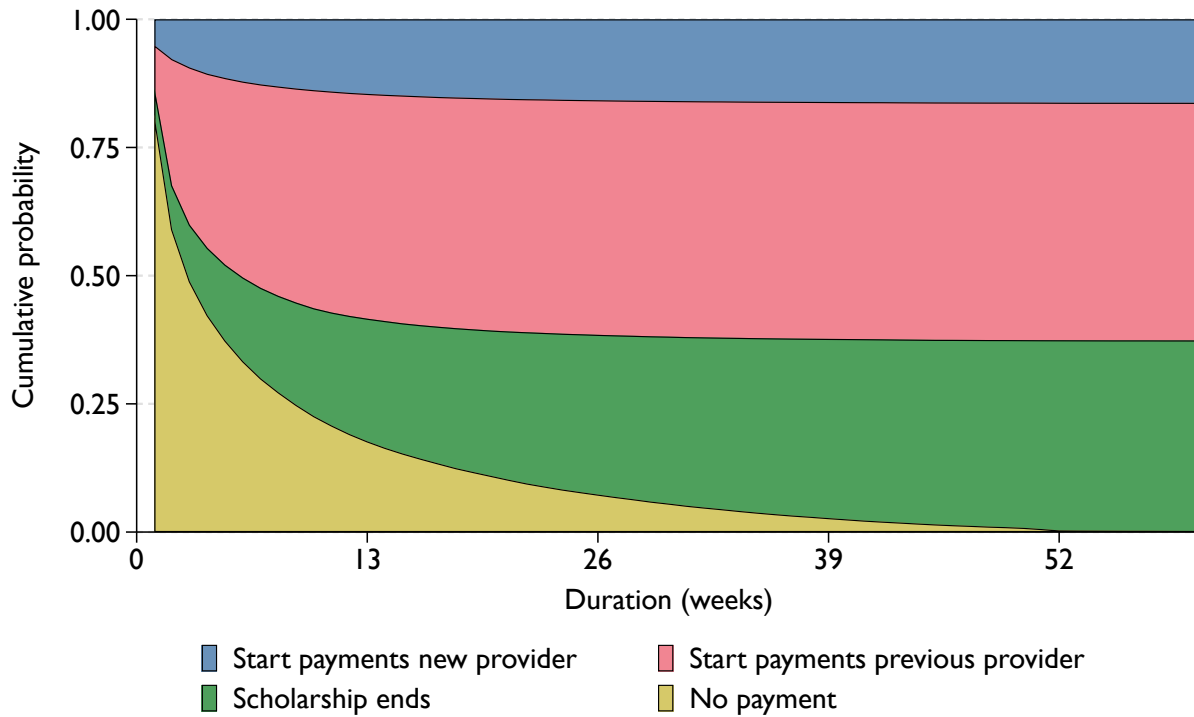


Figure B3. Survival and Cumulative Hazard Probabilities of the Timing of Different Types of Exits from Spells of Scholarship Holding without a Payment (Non-Use Spells)



Notes. The authors' calculations of Kaplan-Meier survival and cumulative hazard probabilities are from CAPS program administrative records for spells of scholarship-holding (Figure B.1), payments to the same provider (Figure B.2), and scholarship-holding without payments (Figure B.3) that began between January 1, 2015, and March 13, 2020.

Appendix C. Descriptive Analysis of Children's Characteristics and CAPS Program Histories

This appendix descriptively analyzes how children's CAPS program histories differ with characteristics of the children, their families, providers, and scholarships. The first column of Table C.1 lists the number of children in our data with a listed characteristic at the start of their first scholarship. The next two columns report percentages of children who are observed to hold scholarships for one year or less and for more than one year. The fourth and fifth columns list the percentages of children with one spell of holding scholarships and with multiple spells. The sixth and seventh columns list the percentages of children who are observed with payments to one primary provider and to multiple providers. The eighth and ninth columns report the percentages of children with no spells of non-payment while holding scholarships and children with one or more spells of non-payment.

Demographic characteristics. Girls' and boys' program outcomes are very similar; however, boys are slightly more likely to have multiple providers and unpaid scholarship spells.

Children's total years being observed holding CAPS scholarships and their likelihoods of experiencing multiple scholarship spells or multiple providers mostly fall with the ages when they begin their scholarships, while their experiences with unpaid scholarships increase. The negative relationships between the length of scholarship holding, number of scholarship spells, and number of providers partly reflect older children having shorter periods for which they might possibly receive scholarships (e.g., a one-year-old who enters the CAPS program might receive scholarships for up to five-and-a-quarter years in our data, while a 12-year-old who enters the program could only receive scholarships for a year or less).

Black children are more likely than most other children to receive scholarships for multiple years, have multiple scholarship spells, and change providers. However, Black children have lower than average rates of experiencing unpaid scholarship spells. White children have average rates of holding scholarships for multiple years, below-average rates of experiencing multiple scholarship spells and multiple providers, and above-average rates of unpaid scholarship spells. Hispanic and other race children have low rates of holding scholarships for multiple years, multiple scholarship spells, multiple providers, and unpaid scholarship spells.

Children living in households with other children who receive scholarships are more likely to hold scholarships for more than a year and have multiple scholarship spells, but they are slightly less likely to have multiple providers and unpaid spells.

Care and provider characteristics. Children whose first CAPS service is full-time care tend to have more years, fewer scholarship spells, more provider changes, and fewer unpaid scholarship spells than average. Children who begin in before- and after-school care have fewer scholarship years, more scholarship spells, fewer provider changes, and more unpaid scholarship spells than average. Few children receive night-time or part-time care as their first CAPS service. However, children who begin in night-time care are more likely to have scholarships for multiple years, multiple provider spells, and multiple providers and less likely to have unpaid spells. Children who begin care in part-time settings tend to be less likely to use the program for multiple years or change providers, but they are more likely to have multiple provider spells and especially likely to have unpaid spells.

Children whose first CAPS service is in a center have fewer years with scholarships, slightly more scholarship spells, fewer provider changes, and more unpaid scholarship spells than other children. Children who begin services in a Quality Rated setting or a setting with a higher Quality Rated star level are less likely to receive scholarships for multiple years, have multiple scholarship spells, or have multiple providers, but they are more likely to have unpaid scholarship spells.

Children whose families pay a family fee for their first CAPS service are less likely to have multiple scholarship spells, multiple providers, or unpaid scholarship weeks than families who do not pay a fee. Children whose first program experience is an unpaid scholarship spell are less likely to have multiple years on the CAPS program or change providers than other children.

Geography. Children who begin services in Zone 1, which includes the Atlanta metropolitan area, are more likely than other children to change providers and have unpaid scholarship spells, and children who begin services in Zone 2 are less likely to have multiple scholarship spells. Children whose first service is in the same ZIP Code as their residence are less likely than other children to receive scholarships for multiple years, experience multiple scholarship spells, change providers, or have unpaid scholarship spells.

Priority group status. Children who begin services in the Pre-K Program, families with children with special needs, inadequate housing, minor parent, domestic violence, and very low-income priority groups are much less likely to have scholarships for multiple years, have multiple scholarship spells, or change providers than other children. Children who begin services in a TANF household are much more likely to have multiple scholarship spells and multiple providers. Children who begin services while in DFCS custody, Child Protective Services, or Pre-K are more likely to have unpaid spells, while children in the inadequate housing, minor parent, domestic violence, and very low-income groups are less likely to have unpaid spells.

Year of first receipt. The percentage of children who hold scholarships for multiple years increases for children who entered the CAPS program in 2017 and 2018 but falls in 2019. The increase in 2017 corresponds to changes in the program's provisions for continuing eligibility late in 2016, while the decrease after 2018 likely reflects the effects of incomplete data due to our observational window ending in March 2020. The incidence of multiple spells generally decreases for children who began services in later years. The proportion of children with multiple providers and with unpaid spells is higher for children who entered the program in 2017 and lower for children who entered in 2019 or 2020—with the latter results likely being affected by incomplete data.

Table C.1. Characteristics of Children and CAPS Program Histories

Characteristic at start of first scholarship	Number of children	Total length of scholarship holding		Scholarship-holding spells		Number of paid providers		Unpaid week spells	
		One year or less	More than one year	One spell	Multiple spells	One provider	Multiple providers	No spells	One or more spells
All children	113,320	57.7%	42.3%	65.9%	34.1%	61.8%	33.9%	35.4%	64.6%
Gender									
Girls	55,477	57.9%	42.1%	65.9%	34.1%	62.4%	33.3%	35.7%	64.3%
Boys	57,843	57.6%	42.4%	65.9%	34.1%	61.4%	34.5%	35.1%	64.9%
Age									
Infants (<1)	25,885	48.3%	51.7%	66.5%	33.5%	57.2%	40.3%	40.1%	59.9%
Toddlers (1 to 2)	35,390	54.1%	45.9%	67.5%	32.5%	60.7%	36.3%	38.3%	61.7%
Pre-school (3 to 5)	27,912	63.4%	36.6%	65.4%	34.6%	64.6%	31.0%	32.6%	67.4%
School-age (6 to 12)	24,133	66.8%	33.2%	63.5%	36.5%	65.2%	27.2%	29.2%	70.8%
Race and ethnicity									
Black	75,790	55.7%	44.3%	63.6%	36.4%	60.4%	35.6%	36.4%	63.6%
White	20,194	58.0%	42.0%	69.1%	30.9%	63.5%	32.5%	30.8%	69.2%
Other race	3,344	61.2%	38.8%	72.0%	28.0%	66.6%	29.1%	37.7%	62.3%
Multiracial	1,755	64.8%	35.2%	61.1%	38.9%	62.2%	32.8%	28.8%	71.2%
Hispanic	12,161	68.2%	31.8%	73.8%	26.2%	67.3%	27.1%	37.4%	62.6%
Other household children with scholarships									
Yes	69,464	56.6%	43.4%	63.9%	36.1%	61.3%	33.9%	35.9%	64.1%
No	43,856	59.6%	40.4%	69.0%	31.0%	62.7%	34.1%	34.6%	65.4%
Type of care									
Full-time care	82,722	54.7%	45.3%	66.7%	33.3%	60.4%	36.3%	37.5%	62.5%
Before and after school	29,184	66.4%	33.6%	63.9%	36.1%	66.0%	27.0%	29.8%	70.2%
Night care	911	50.4%	49.6%	53.8%	46.2%	57.5%	39.0%	39.7%	60.3%

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Part-time care	503	62.8%	37.2%	63.4%	36.6%	57.5%	33.0%	9.3%	90.7%
Type of provider									
Center	109,171	57.9%	42.1%	65.8%	34.2%	61.9%	33.8%	34.5%	65.5%
Other	4,149	53.4%	46.6%	67.6%	32.4%	61.4%	37.3%	58.9%	41.1%
Quality rating									
One star	16,238	60.9%	39.1%	71.2%	28.8%	65.3%	30.3%	36.0%	64.0%
Two stars	19,045	65.2%	34.8%	72.6%	27.4%	66.5%	27.3%	32.2%	67.8%
Three stars	3,873	69.5%	30.5%	74.3%	25.7%	70.3%	22.9%	27.8%	72.2%
Family fee									
Yes	37,020	57.3%	42.7%	71.0%	29.0%	68.6%	31.4%	54.7%	45.3%
No	45,587	53.0%	47.0%	61.7%	38.3%	59.0%	41.0%	43.6%	56.4%
Not active-paid	30,713	65.3%	34.7%	65.9%	34.1%	57.9%	26.5%	0.0%	100.0%
CAPS payment zones									
Zone 1	47,866	57.1%	42.9%	65.0%	35.0%	58.6%	37.2%	32.8%	67.2%
Zone 2	38,636	58.5%	41.5%	67.3%	32.7%	64.3%	31.2%	37.1%	62.9%
Zone 3	26,818	57.8%	42.2%	65.2%	34.8%	64.1%	31.9%	37.5%	62.5%
Proximity to provider									
Same ZIP Code	50,710	59.6%	40.4%	67.1%	32.9%	67.4%	28.3%	37.4%	62.6%
Neighboring ZIP Code	40,904	57.0%	43.0%	66.3%	33.7%	62.5%	33.2%	35.6%	64.4%
Non-contig. ZIP Code	21,706	54.9%	45.1%	62.1%	37.9%	47.6%	48.5%	30.2%	69.8%
Priority group status									
TANF	15,174	55.1%	44.9%	52.9%	47.1%	52.9%	42.5%	34.8%	65.2%
DFCS custody, foster care	17,952	53.2%	46.8%	67.3%	32.7%	55.1%	42.5%	28.2%	71.8%
Pre-K	2,625	67.5%	32.5%	69.6%	30.4%	71.6%	24.0%	31.6%	68.4%
Protective Services	1,337	54.5%	45.5%	66.1%	33.9%	57.6%	37.2%	30.7%	69.3%
Children w/ special needs	3,403	59.4%	40.6%	73.6%	26.4%	67.6%	27.7%	35.7%	64.3%
Inadequate housing	9,042	72.7%	27.3%	79.4%	20.6%	67.1%	27.2%	39.5%	60.5%

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Minor parent	1,912	60.4%	39.6%	74.6%	25.4%	67.2%	29.9%	38.8%	61.2%
Domestic violence	4,817	73.1%	26.9%	80.8%	19.2%	69.1%	24.2%	40.9%	59.1%
Low-income	12,391	64.1%	35.9%	79.7%	20.3%	70.2%	25.6%	42.1%	57.9%
Other groups	616	62.2%	37.8%	78.2%	21.8%	72.2%	25.6%	45.1%	54.9%
Not in a priority group	44,051	53.2%	46.8%	60.1%	39.9%	62.2%	33.5%	35.2%	64.8%
Year									
2015	18,743	50.2%	49.8%	54.1%	45.9%	56.3%	40.2%	32.4%	67.6%
2016	32,267	51.9%	48.1%	52.7%	47.3%	57.7%	38.5%	31.9%	68.1%
2017	12,238	40.6%	59.4%	58.6%	41.4%	52.0%	44.8%	28.3%	71.7%
2018	20,966	39.2%	60.8%	72.4%	27.6%	59.7%	36.5%	33.0%	67.0%
2019	25,608	88.3%	11.7%	84.6%	15.4%	74.3%	20.6%	43.5%	56.5%
2020	3,498	100.0%	0.0%	99.0%	1.0%	85.4%	2.1%	63.4%	36.6%

Notes. The authors' calculations are from scholarship records for children who entered the CAPS program between January 1, 2015, and March 13, 2020.

Appendix D. Multivariate Estimation Methodology and Full Results

For each sub-spell observed at duration d , we estimate a model of the hazard probability of transitioning to outcome j ($= 1, 4$) with the following multinomial logit specification:

$$h_j(d) = \frac{\exp(\alpha'_j M_d + \beta'_j X_d)}{\sum_{k=1}^4 \exp(\alpha'_k M_d + \beta'_k X_d)} \quad (1)$$

where $h_j(d)$ is the hazard probability for a given type of spell and outcome, M_d is a set of spell duration indicators, X_d is a set of observed characteristics, and α_j and β_j are sets of coefficients to be estimated. Our models use the spell continuation outcome as the first (base) outcome and normalize all the coefficients for this outcome at zero.

Our models include spell duration (M_d) controls that account for the time that (a) a spell of scholarship holding has progressed and (b) a sub-spell in a care arrangement or of scholarship non-use has progressed, using piecewise linear functions with segments over weeks one to four (first month), five to 26 (next five months), 27 to 52 (next six months), and 53 and beyond. They also include an indicator for whether the week is a spell or sub-spell anniversary (i.e., whether the spell is in its 52nd week, 104th week, and so on).

The coefficients from these models are hard to interpret because the coefficients enter both the numerator and denominator of the model specification and because they enter non-linearly. Because of this, we calculate “marginal effects” of the explanatory variables on the probabilities of each type of exit. The marginal effects are calculated from the coefficients but describe how much the probability of making a particular type of exit changes with a small change in the explanatory variable. Let $m_{k,d}$ be the k^{th} element of M_d , and let $x_{l,d}$ be the l^{th} element of X_d . The marginal effects of these elements on the hazard probability of exiting for reason j at duration d can be expressed as

$$\frac{\partial h_j(d)}{\partial m_{k,d}} \quad \text{and} \quad \frac{\partial h_j(d)}{\partial x_{l,d}} \quad (2)$$

The marginal effects have different values at different durations and for different values of the M_d and X_d variables. Except as noted, we calculate the marginal effects using the values from the first week of scholarship receipt for each child and take the averages across all children.

Coefficient estimates, coefficient standard errors, and estimated marginal effects from the models of spells with the same care provider and spells of scholarship non-use are reported in Table D.1. Selected estimates of the marginal effects are also reported in Table 2.

Table D.1. Care Arrangement and Scholarship Non-Use Competing-Risk Hazard Coefficients, Standard Errors, and Marginal Effects

	Care arrangement spells			Scholarship non-use spells		
	New provider	Unpaid	Scholarship Loss	New provider	Previous provider	Scholarship loss
Scholarship spell duration						
Slope 1 st –4 th weeks	0.362*** (0.014) 0.002	0.459*** (0.007) 0.009	-0.144*** (0.011) -0.003	-0.049*** (0.009) 0.005	-0.579*** (0.006) -0.104	-0.106*** (0.008) 0.002
Slope 5 th –26 th weeks	0.011*** (0.001) 0.0001	0.019*** (0.001) 0.0003	-0.041*** (0.001) -0.0006	-0.003** (0.001) -0.0001	0.030*** (0.001) 0.002	-0.024*** (0.001) -0.001
Slope 27 th –52 nd weeks	0.004*** (0.001) 0.00002	-0.002*** (0.001) -0.00003	0.035*** (0.001) 0.0002	0.006*** (0.001) 0.00003	0.000 (0.001) -1.5×10^{-6}	0.024*** (0.001) 0.0008
Slope after 52 weeks	0.001** 0.000 5.3×10^{-6}	0.000 0.000 -2.9×10^{-7}	-0.009*** 0.000 -0.0002	-0.001** 0.000 -4.4×10^{-6}	0.002*** 0.000 0.00004	-0.006*** 0.000 -0.0005
Anniversary Week	0.904*** (0.047) 0.004	0.120** (0.037) -0.001	2.483*** (0.019) 0.146	1.346*** (0.056) 0.005	0.627*** (0.050) -0.003	2.952*** (0.024) 0.526
Sub-spell duration						
Slope 1 st –4 th weeks	-0.366*** (0.009) -0.002	-0.498*** (0.004) -0.01	0.015 (0.009) 0.001	-0.295*** (0.007) -0.014	0.051*** (0.004) 0.014	-0.080*** (0.006) -0.004
Slope 5 th –26 th weeks	-0.016*** (0.001) -0.0001	-0.035*** (0.001) -0.001	-0.005*** (0.001) -0.0001	-0.070*** (0.002) -0.001	-0.171*** (0.001) -0.011	0.017*** (0.001) 0.001
Slope 27 th –52 nd weeks	-0.005*** (0.001) -0.00002	-0.015*** (0.001) -0.0002	0.009*** (0.001) 0.0001	0.019*** (0.004) 0.0001	0.052*** (0.004) 0.0002	0.014*** (0.001) 0.0004
Slope after 52 weeks	-0.005*** (0.001) -0.00002	-0.005*** 0.000 -0.00004	-0.004*** 0.000 -0.0001	-0.003 (0.008) -5.8×10^{-7}	-0.055*** (0.014) -0.001	-0.030*** (0.004) -0.002
Anniversary week	0.346*** (0.066) 0.002	0.249*** (0.056) 0.002	0.112*** (0.025) 0.002	0.438 (0.322) 0.005	- - -0.0001	0.003 (0.099) -0.0002

Child demographic characteristics

Female	-0.040*** (0.011)	-0.01 (0.006)	-0.007 (0.008)	-0.032* (0.013)	0.030*** (0.008)	0.000 (0.009)
	-0.0002	-0.0002	-0.0001	-0.002	0.006	-0.0003
Black	0.036* (0.017)	-0.069*** (0.009)	0.105*** (0.012)	0.308*** (0.019)	0.094*** (0.011)	-0.008 (0.012)
	0.0002	-0.001	0.002	0.012	0.014	-0.002
Other races	0.059 (0.039)	-0.078*** (0.021)	-0.018 (0.029)	0.218*** (0.043)	0.172*** (0.025)	-0.093** (0.032)
	0.0003	-0.002	-0.0003	0.007	0.030	-0.007
Multiracial	0.192*** (0.045)	0.171*** (0.023)	0.206*** (0.030)	0.07 (0.055)	0.003 (0.031)	0.130*** (0.031)
	0.001	0.004	0.004	0.002	-0.002	0.006
Hispanic	0.075** (0.025)	-0.015 (0.014)	0.080*** (0.018)	0.084** (0.028)	0.055*** (0.017)	0.006 (0.019)
	0.0004	-0.0003	0.002	0.003	0.009	-0.0005
1 year old	-0.018 (0.025)	0.063*** (0.015)	0.178*** (0.020)	0.088** (0.028)	-0.282*** (0.017)	0.181*** (0.025)
	-0.0001	0.001	0.003	0.008	-0.060	0.010
2 years old	-0.054* (0.025)	0.069*** (0.015)	0.252*** (0.019)	0.099*** (0.028)	-0.317*** (0.017)	0.258*** (0.025)
	-0.0003	0.001	0.004	0.009	-0.067	0.013
3 years old	-0.056* (0.026)	0.217*** (0.015)	0.367*** (0.020)	0.057* (0.029)	-0.400*** (0.018)	0.279*** (0.025)
	-0.0003	0.003	0.006	0.008	-0.082	0.015
4 years old	0.059* (0.027)	0.497*** (0.015)	0.646*** (0.020)	-0.164*** (0.031)	-0.475*** (0.018)	0.354*** (0.026)
	0.0002	0.009	0.012	-0.002	-0.094	0.021
5 years old	0.286*** (0.031)	0.772*** (0.018)	0.929*** (0.023)	-0.365*** (0.035)	-0.618*** (0.021)	0.472*** (0.027)
	0.001	0.015	0.020	-0.009	-0.117	0.029
6 years old	0.285*** (0.035)	0.769*** (0.019)	0.973*** (0.026)	-0.406*** (0.039)	-0.554*** (0.023)	0.440*** (0.030)
	0.001	0.015	0.022	-0.011	-0.106	0.027
7 years old	0.242*** (0.037)	0.778*** (0.020)	0.939*** (0.027)	-0.424*** (0.041)	-0.546*** (0.024)	0.427*** (0.031)
	0.001	0.016	0.021	-0.012	-0.104	0.026
8 years old	0.176***	0.781***	0.956***	-0.446***	-0.554***	0.411***

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	(0.038)	(0.021)	(0.028)	(0.043)	(0.025)	(0.032)
	0.001	0.016	0.021	-0.013	-0.105	0.025
9 years old	0.084*	0.820***	0.950***	-0.609***	-0.615***	0.424***
	(0.040)	(0.021)	(0.029)	(0.044)	(0.026)	(0.032)
	0.0002	0.017	0.021	-0.017	-0.114	0.027
10 years old	0.067	0.855***	0.995***	-0.661***	-0.674***	0.465***
	(0.042)	(0.022)	(0.030)	(0.047)	(0.027)	(0.032)
	0.0001	0.018	0.022	-0.019	-0.124	0.030
11 years old	-0.116*	1.033***	1.135***	-0.972***	-0.825***	0.452***
	(0.051)	(0.024)	(0.032)	(0.054)	(0.030)	(0.033)
	-0.001	0.024	0.027	-0.026	-0.145	0.032
12 years old	-0.478***	1.105***	1.204***	-1.196***	-0.836***	0.388***
	(0.074)	(0.028)	(0.038)	(0.068)	(0.034)	(0.036)
	-0.002	0.026	0.030	-0.030	-0.145	0.028
Household Characteristics						
Other household child with CAPS scholarship	0.183***	0.003	-0.103***	0.142***	0.003	-0.086***
	(0.016)	(0.008)	(0.010)	(0.017)	(0.010)	(0.011)
	0.001	0.0001	-0.002	0.006	-0.0001	-0.004
Log family income	0.017	-0.108***	-0.192***	0.012	0.051***	-0.059***
	(0.011)	(0.005)	(0.006)	(0.011)	(0.007)	(0.008)
	0.0001	-0.002	-0.007	0.0002	0.009	-0.004
No family income	0.176	-0.674***	-1.255***	-0.152	0.293***	-0.401***
	(0.108)	(0.052)	(0.061)	(0.103)	(0.066)	(0.075)
	0.001	-0.019	-0.066	-0.008	0.052	-0.029
Parent/caregiver age	0.000	-0.001	-0.007***	-0.004**	0.002*	-0.001
	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
	1.9×10^{-6}	-0.00001	-0.0002	-0.0002	0.0003	-0.0001
Parent/caregiver age missing	0.256***	-0.092**	-0.474***	0.310***	-0.02	-0.061
	(0.054)	(0.030)	(0.038)	(0.060)	(0.038)	(0.042)
	0.001	-0.002	-0.010	0.017	-0.007	-0.003
Lives in Zone 2	-0.173***	0.053***	0.056***	-0.244***	-0.080***	-0.036***
	(0.014)	(0.007)	(0.009)	(0.015)	(0.009)	(0.010)
	-0.001	0.001	0.001	-0.010	-0.011	-0.0002
Lives in Zone 3	-0.230***	0.052***	0.110***	-0.244***	-0.036***	0.031**
	(0.015)	(0.008)	(0.010)	(0.017)	(0.010)	(0.012)
	-0.001	0.001	0.002	-0.011	-0.004	0.002
Care and provider characteristics						
Family childcare	-2.064***	-1.185***	-1.061***	-0.740***	0.07	0.076

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learning home or informal provider	(0.033)	(0.030)	(0.026)	(0.060)	(0.043)	(0.041)
Before or after-school	-0.006	-0.014	-0.015	-0.025	0.019	0.004
	-0.499***	-0.059***	-0.364***	-0.054*	0.127***	-0.177***
	(0.021)	(0.011)	(0.015)	(0.023)	(0.014)	(0.015)
	-0.002	-0.001	-0.007	-0.003	0.026	-0.009
Night-time or part-time	0.377***	-0.085**	0.009	0.057	0.065*	-0.146***
	(0.040)	(0.028)	(0.032)	(0.042)	(0.028)	(0.029)
	0.003	-0.002	0.0002	0.002	0.013	-0.008
Log capacity	-0.129***	0.301***	0.059***	-0.182***	0.007	-0.047***
	(0.010)	(0.006)	(0.007)	(0.011)	(0.007)	(0.008)
	-0.001	0.006	0.001	-0.008	0.004	-0.002
Log capacity missing	1.768***	1.838***	1.472***	0.008	-0.140***	0.083
	(0.050)	(0.032)	(0.036)	(0.058)	(0.041)	(0.043)
	0.032	0.023	0.045	0.003	-0.024	0.006
Quality Rated 1 Star	-0.026	0.074***	-0.036**	0.003	0.015	-0.039**
	(0.017)	(0.009)	(0.011)	(0.018)	(0.011)	(0.012)
	-0.0001	0.001	-0.001	0.00004	0.003	-0.002
Quality Rated 2 Stars	-0.084***	0.146***	-0.112***	0.009	-0.012	0.006
	(0.016)	(0.008)	(0.011)	(0.016)	(0.010)	(0.011)
	-0.0004	0.003	-0.002	0.001	-0.002	0.0004
Quality Rated 3 Stars	-0.287***	0.270***	-0.099***	-0.033	-0.034	0.002
	(0.036)	(0.015)	(0.023)	(0.030)	(0.018)	(0.020)
	-0.001	0.006	-0.002	-0.001	-0.006	0.001
Adjacent ZIP Code	0.217***	0.020**	-0.028**	0.162***	-0.003	0.000
	(0.013)	(0.007)	(0.009)	(0.015)	(0.009)	(0.010)
	0.001	0.0004	-0.001	0.006	-0.002	-0.0003
Non-adjacent ZIP Code	0.686***	0.204***	0.027*	0.600***	-0.121***	-0.033**
	(0.014)	(0.008)	(0.011)	(0.016)	(0.011)	(0.012)
	0.004	0.004	0.0004	0.031	-0.029	-0.002
TANF priority group	0.284***	0.048***	0.281***	0.350***	0.055***	0.132***
	(0.020)	(0.011)	(0.012)	(0.022)	(0.014)	(0.016)
	0.001	0.001	0.007	0.015	0.004	0.005
DFCS and foster care priority group	0.279***	-0.088***	-0.452***	0.421***	0.052	-0.184***
	(0.045)	(0.025)	(0.032)	(0.050)	(0.033)	(0.036)
	0.001	-0.001	-0.008	0.020	0.006	-0.010
Pre-K priority group	0.204***	0.088***	-0.049	0.003	0.090***	-0.117***
	(0.044)	(0.019)	(0.029)	(0.044)	(0.024)	(0.028)
	0.001	0.002	-0.001	-0.001	0.018	-0.007

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Protective services priority group	0.412*** (0.047) 0.002	0.035 (0.028) 0.001	-0.038 (0.036) -0.001	0.315*** (0.051) 0.015	-0.045 (0.035) -0.009	-0.237*** (0.040) -0.011
Families of children with special needs priority group	0.098** (0.035) 0.0005	-0.036* (0.018) -0.001	-0.256*** (0.026) -0.005	0.125*** (0.037) 0.005	0.077*** (0.022) 0.015	-0.224*** (0.027) -0.011
Homeless priority group	0.314*** (0.027) 0.002	0.038* (0.015) 0.001	-0.265*** (0.022) -0.005	0.147*** (0.028) 0.006	0.048** (0.018) 0.008	-0.095*** (0.022) -0.005
Minor parent priority group	-0.140* (0.056) -0.001	0.184*** (0.027) 0.004	-0.255*** (0.037) -0.005	-0.046 (0.056) -0.003	0.150*** (0.033) 0.030	-0.183*** (0.043) -0.010
Domestic violence priority group	0.195*** (0.036) 0.001	0.015 (0.019) 0.0004	-0.301*** (0.029) -0.006	0.131*** (0.036) 0.006	0.011 (0.022) 0.003	-0.224*** (0.028) -0.010
Low-income priority group	0.141*** (0.024) 0.001	-0.045*** (0.013) -0.001	-0.207*** (0.018) -0.004	0.141*** (0.025) 0.005	0.112*** (0.015) 0.021	-0.125*** (0.019) -0.007
Other priority groups	0.247** (0.080) 0.001	-0.084 (0.046) -0.001	-0.455*** (0.067) -0.008	0.316*** (0.092) 0.013	0.126* (0.055) 0.022	-0.196** (0.072) -0.011
Log family fee	-0.053*** (0.010) -0.0003	0.139*** (0.006) 0.002	0.122*** (0.008) 0.002	-	-	-
No family fee	0.003 (0.031) -0.0001	0.173*** (0.017) 0.003	0.346*** (0.024) 0.006	-	-	-
Months						
February	0.070* (0.028) 0.0003	-0.001 (0.017) 5.5×10^{-6}	-0.038* (0.018) -0.001	0.164*** (0.031) 0.006	0.036 (0.019) 0.003	0.190*** (0.021) 0.008
March	0.142*** (0.029) 0.001	-0.047** (0.018) -0.001	-0.037* (0.019) -0.001	0.197*** (0.033) 0.007	0.107*** (0.020) 0.017	0.148*** (0.023) 0.005
April	0.008 (0.030) 0.00005	-0.065*** (0.018) -0.001	-0.083*** (0.020) -0.002	0.055 (0.034) 0.004	-0.229*** (0.022) -0.045	0.271*** (0.023) 0.015
May	0.357***	0.738***	0.227***	0.212***	-0.042*	0.244***

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	(0.028)	(0.015)	(0.018)	(0.032)	(0.020)	(0.022)
	0.002	0.016	0.005	0.009	-0.014	0.011
June	-0.006	0.402***	-0.062**	0.015	-0.342***	0.069**
	(0.031)	(0.016)	(0.020)	(0.032)	(0.020)	(0.023)
	-0.0001	0.007	-0.001	0.004	-0.061	0.006
July	0.449***	0.663***	0.262***	0.238***	0.052**	0.341***
	(0.027)	(0.015)	(0.018)	(0.030)	(0.018)	(0.021)
	0.002	0.013	0.006	0.009	0.003	0.015
August	0.365***	0.158***	-0.036	0.205***	-0.445***	0.255***
	(0.028)	(0.017)	(0.020)	(0.030)	(0.020)	(0.022)
	0.002	0.002	-0.001	0.014	-0.081	0.016
September	0.065*	-0.051**	-0.240***	0.064*	-0.405***	0.051*
	(0.029)	(0.018)	(0.021)	(0.032)	(0.020)	(0.023)
	0.0003	-0.001	-0.005	0.007	-0.072	0.006
October	-0.018	-0.082***	-0.230***	0.179***	-0.176***	0.381***
	(0.030)	(0.018)	(0.021)	(0.032)	(0.021)	(0.021)
	-0.00005	-0.001	-0.004	0.009	-0.039	0.021
November	0.132***	0.191***	-0.294***	-0.014	-0.287***	-0.585***
	(0.030)	(0.017)	(0.021)	(0.034)	(0.021)	(0.026)
	0.001	0.003	-0.006	0.003	-0.047	-0.017
December	0.022	0.967***	0.178***	-0.314***	0.531***	-0.442***
	(0.030)	(0.015)	(0.019)	(0.033)	(0.017)	(0.023)
	-0.00004	0.023	0.003	-0.016	0.122	-0.019
Year/date						
2016 before October 1	0.089**	-0.006	-0.086***	0.145***	-0.074***	0.056*
	(0.031)	(0.015)	(0.018)	(0.036)	(0.019)	(0.025)
	0.0004	-0.0001	-0.002	0.005	-0.016	0.003
2016 on/after October 1 (program changes)	0.248***	-0.135***	-0.003	-0.007	-0.709***	1.347***
	(0.038)	(0.019)	(0.023)	(0.047)	(0.024)	(0.026)
	0.001	-0.003	-0.00003	0.0003	-0.130	0.118
2017	0.240***	-0.072***	-0.041*	0.230***	-0.311***	0.357***
	(0.030)	(0.015)	(0.017)	(0.034)	(0.018)	(0.023)
	0.001	-0.001	-0.001	0.010	-0.060	0.020
2018	0.285***	-0.120***	-0.403***	0.556***	0.036	-0.181***
	(0.030)	(0.015)	(0.019)	(0.034)	(0.018)	(0.025)
	0.001	-0.002	-0.008	0.022	0.002	-0.008
2019	0.177***	-0.112***	-0.366***	0.551***	-0.001	0.358***
	(0.031)	(0.015)	(0.019)	(0.035)	(0.019)	(0.025)

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	<i>0.001</i>	<i>-0.002</i>	<i>-0.007</i>	<i>0.021</i>	<i>-0.010</i>	<i>0.015</i>
2020	-0.037	-0.524***	-0.338***	0.584***	-0.092***	0.343***
	(0.043)	(0.024)	(0.027)	(0.047)	(0.027)	(0.033)
	<i>-0.0001</i>	<i>-0.008</i>	<i>-0.007</i>	<i>0.024</i>	<i>-0.027</i>	<i>0.016</i>
Intercept	-5.636***	-5.157***	-2.609***	-2.308***	-0.575***	-2.022***
	(0.136)	(0.069)	(0.082)	(0.132)	(0.082)	(0.096)
Numbers of observations						
Children		108,531			73,221	
Spells		254,353			165,991	
Service weeks		6,383,632			1,258,039	

Notes. The estimated coefficients, standard errors (in parentheses), and marginal effects (in italics) are from competing-risk multinomial logit models of care arrangement and scholarship non-use spell exits. For categorical variables, White children, children younger than one year old, center-based care, full-time care, no Quality Rated star level, same ZIP Code, not in a priority group, January, and 2015 are reference categories.