Supplementary Online Content

Trinh M-H, Sundaram R, Robinson SL, et al. Association of trajectory and covariates of children's screen media time. *JAMA Pediatr*. Published online November 25, 2019. doi:10.1001/jamapediatrics.2019.4488

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Baseline Characteristics Between Included and Excluded Participants (n = 5034)[a]

Sociodemographic characteristics	Included		Excluded		P-value[b]
	N	%	N	%	
Total	3,895	(100)	1,139	(100)	
Paternal characteristics					
Paternal education					<.001
< High school	289	(7.5)	166	(14.8)	
High school/GED	681	(17.7)	308	(27.5)	
Some college	1201	(31.2)	352	(31.4)	
College	921	(23.9)	175	(15.6)	
Graduate school	764	(19.8)	119	(10.6)	
Maternal characteristics					
Age, years: Mean (SD)	30.87	(6.0)	29.07	(6.2)	<.001
Nulliparous	1849	(47.8)	415	(36.7)	<.001
Maternal education					<.001
< High school	185	(4.8)	122	(10.7)	
High school/GED	430	(11.0)	221	(19.4)	
Some college	1126	(28.9)	409	(35.9)	
College	925	(23.7)	177	(15.5)	
Graduate school	1229	(31.6)	210	(18.4)	
Married	3387	(90.3)	856	(80.6)	<.001
Child characteristics					
Sex					0.50
Male	2031	(52.1)	581	(51.0)	
Female	1864	(47.9)	558	(49.0)	
Race					<.001
Non-Hispanic white	2973	(77.0)	715	(64.5)	
Non-Hispanic Black	97	(2.5)	79	(7.1)	
Asian	72	(1.9)	11	(1.0)	
Hispanic	210	(5.4)	91	(8.2)	
Mixed race/other	509	(13.2)	213	(19.2)	
Plurality					<.001
Singleton	3083	(79.2)	822	(72.2)	
Twin	786	(20.2)	298	(26.2)	
Triplet	26	(0.7)	17	(1.5)	
Quadruplet	0	(0.0)	2	(0.2)	
Conceived with infertility treatment	1251	(32.1)	247	(21.7)	<.001

eTable 1 (continued). Baseline characteristics between included and excluded participants (N=5,034)[a]

Sociodemographic characteristics	Included		Excluded		P-value[b]
	N	%	N	%	
Household characteristics					
Townsend index: Mean (SD)	-2.15	(1.5)	-1.67	(1.9)	<.001

[a]Missing data: paternal education (n=58, 1.15%); nulliparity (n=37, 0.74%); marital status (n=221, 4.39%); child race (n=64, 1.27%); Townsend index (n=285, 5.66%).

[b]Sociodemographic characteristics relative to inclusion status were compared using χ^2 and t tests.

eTable 2. Mean and Median Screen Time by Age, for Each Trajectory Cluster (n = 1045)

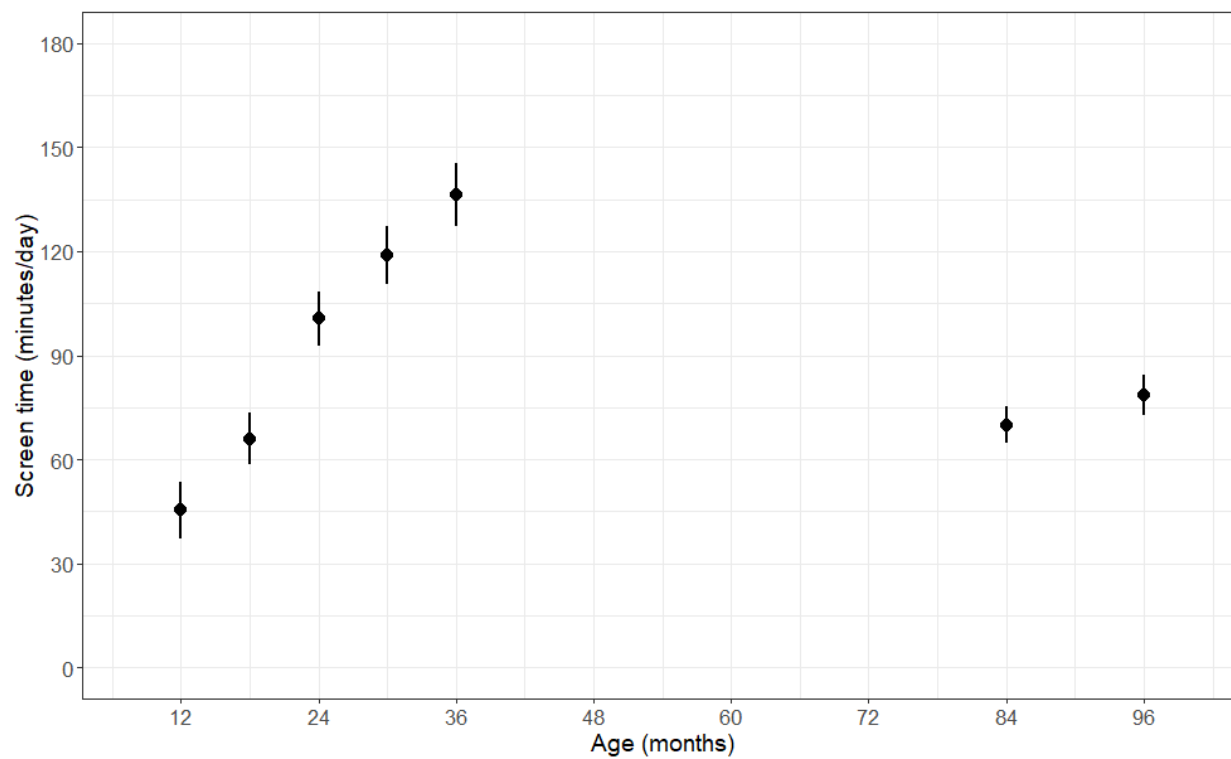| Trajectory	N	Mean minutes (SD); Median minutes (IQR)						
		12 Months	18 Months	24 Months	30 Months	36 Months	7 Years	8 Years
Low	766	50.58 (80.55); 30.00 (60.00) N = 766	65.87 (74.94); 60.00 (75.00) N = 766	92.86 (75.68); 60.00 (90.00) N = 766	105.81 (74.75); 90.00 (80.00) N = 766	106.87 (62.77); 120.00 (75.00) N = 766	66.72 (48.54); 55.71 (53.57) N = 389	72.22 (52.83); 60.00 (60.00) N = 405
Increasing	279	36.94 (50.25); 20.00 (60.00) N =279	94.81 (85.22); 60.00 (90.00) N =279	153.67 (98.98); 120.00 (120.00) N = 279	181.03 (93.52); 165.00 (120.00) N = 279	253.62 (88.81); 240.00 (120.00) N = 279	86.88 (69.73); 68.57 (81.43) N = 119	93.99 (67.90); 85.71 (77.14) N = 127

eTable 3. Parental, Child, and Household Characteristics of Sample by Screen Time Trajectory (n = 1045)[a]

Sociodemographic characteristics	Low trajectory		Increasing trajectory		P-value[b]
	N	%	N	%	
Total	766	(100)	279	(100)	
Paternal characteristics					
Paternal education					0.007
< High school	28	(3.7)	13	(4.7)	
High school/GED	97	(12.8)	42	(15.1)	
Some college	181	(23.8)	92	(33.0)	
College	246	(32.4)	78	(28.0)	
Graduate school	208	(27.4)	54	(19.4)	
Maternal characteristics					
Age, years: Mean (SD)	32.09	(5.3)	32.12	(5.5)	0.94
Nulliparous	397	(52.4)	147	(53.7)	0.72
Maternal education					<.001
< High school	11	(1.4)	4	(1.4)	
High school/GED	39	(5.1)	29	(10.4)	
Some college	151	(19.7)	76	(27.2)	
College	222	(29.0)	84	(30.1)	
Graduate school	343	(44.8)	86	(30.8)	
Moderate/severe maternal depression					
At 1 year	35	(4.9)	14	(5.4)	0.77
At 2 years	31	(4.5)	18	(7.1)	0.12
At 3 years	38	(5.2)	25	(9.5)	0.01
Married	715	(95.1)	254	(92.0)	0.06
Employed	558	(73.9)	189	(68.5)	0.08
Child characteristics					
Sex					0.05
Male	385	(50.3)	159	(57.0)	
Female	381	(49.7)	120	(43.0)	
Race					0.67
Non-Hispanic white	639	(83.5)	234	(83.9)	
Non-Hispanic Black	5	(0.7)	2	(0.7)	
Asian	17	(2.2)	8	(2.9)	
Hispanic	21	(2.8)	11	(3.9)	
Mixed race/other	83	(10.9)	24	(8.6)	
Plurality					0.95
Singleton	637	(83.2)	230	(82.4)	
Twin	122	(15.9)	46	(16.5)	
Triplet	7	(0.9)	3	(1.1)	

Conceived with infertility treatment	311	(40.6)	98	(35.1)	0.11
Care type					
At 1 year					0.28
Parental care	452	(60.9)	176	(65.4)	
Home-based care	194	(26.2)	67	(24.9)	
Center-based care	96	(12.9)	26	(9.7)	
At 3 years					<.001
Parental care	417	(56.4)	163	(60.4)	
Home-based care	165	(22.3)	79	(29.3)	
Center-based care	157	(21.2)	28	(10.4)	
Household characteristics					
Townsend index: Mean (SD)	-2.42	(1.2)	-2.27	(1.3)	0.09
Non-English language spoken	96	(12.6)	35	(12.6)	0.99

[a]Missing data: paternal education (n=6, 0.6%); nulliparity (n=13, 1.2%); maternal depression at 1 year (n=78, 7.5%), 2 years (n=109, 10.4%), and 3 years (n=51, 4.9%); marital status (n=17, 1.6%); employment (n=14, 1.3%); child race (n=1, 0.1%); care type at 1 year (n=34, 3.3%) and 3 years (n=36, 3.4%); Townsend index (n=57, 5.5%); non-English language spoken (n=6, 0.6%).

[b]Sociodemographic characteristics relative to screen time trajectory were compared using χ^2 and t tests.

eFigure. Mean Screen Time by Age Among Complete Data (n = 398)

Children's mean screen time and 95% CI from 1 to 8 years of age, among those with complete screen time data for all seven timepoints