

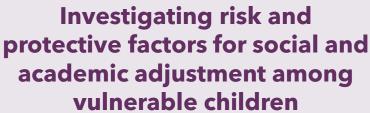


Promoting educational and health equity during childhood: insights from longitudinal protective and risk factors

Gabrielle Garon-Carrier

Tier II CRC on school readiness, inclusion and social adjustment

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Axe 1

Axe 2

Axe 3



Informing on the developmental mechanisms for early cognitive and mental health



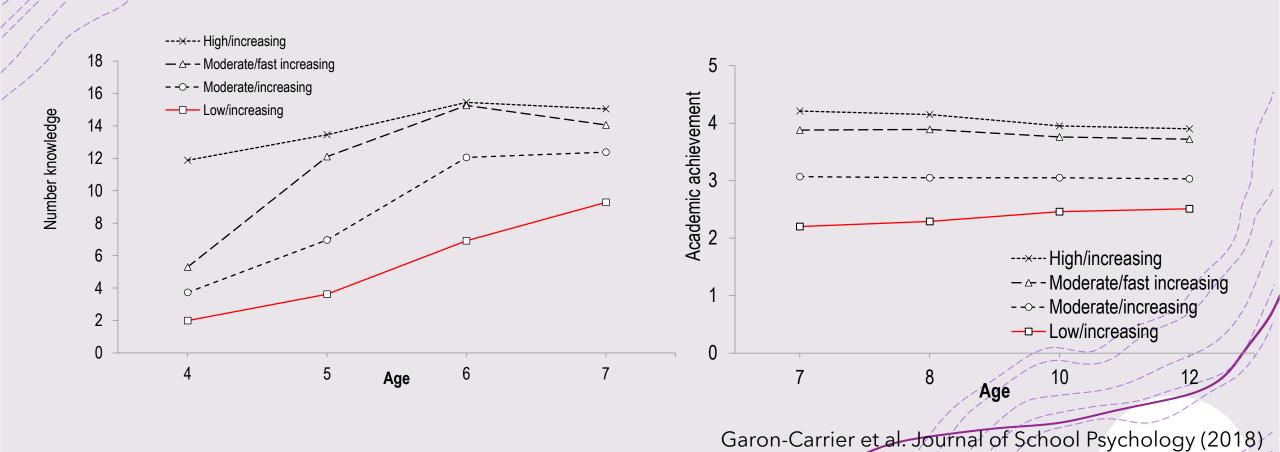
Advancing knowledge on the impact of social policies and services for families with young children



The sustaining role of early childhood

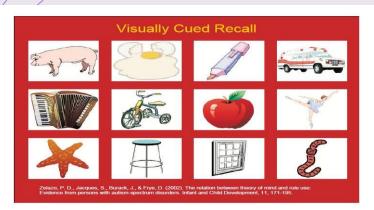


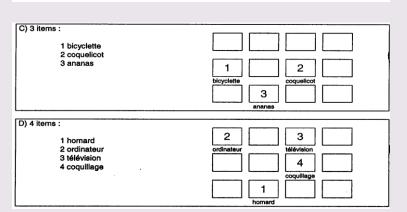
The sustaining role of early childhood

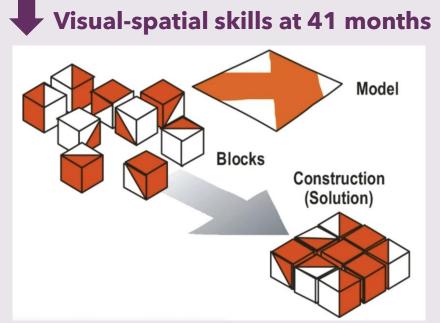


Who are the children in the low trajectory?





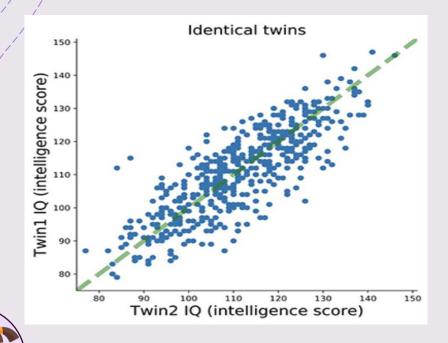






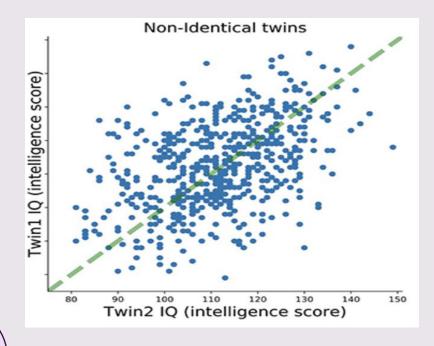
Garon-Carrier et al. Journal of School Psychology (2018)

Twin Resemblance





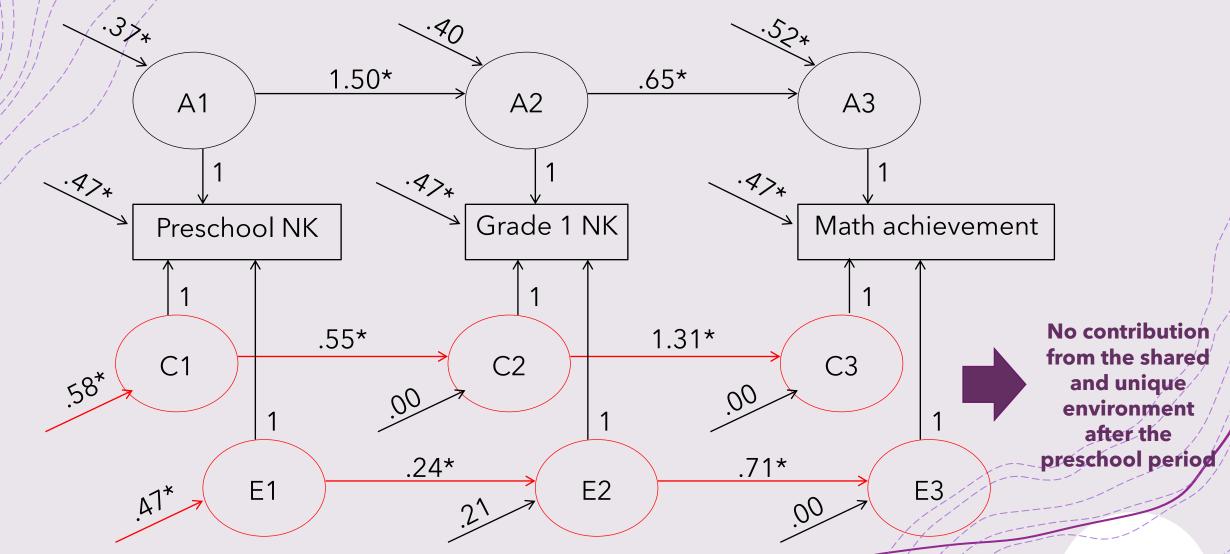
- Share **all** of their genetic influences
- All of their shared environmental influences
- Each child has their own nonshared (unique) environmental influences



Dizygotic Twins (Non-identical)

- Share **half** of their genetic influences
- All of their shared environmental influences
- Each child has their own nonshared (unique) environmental influences

The sustaining role of early childhood



Garon-Carrier et al. Psychological Science (2017)

Propensity to succeed:
All children will start school ready to learn



The Goals 2000: Educate America Act (P.L. 103-227)

The propensity to succeed

Kindergarten school readiness

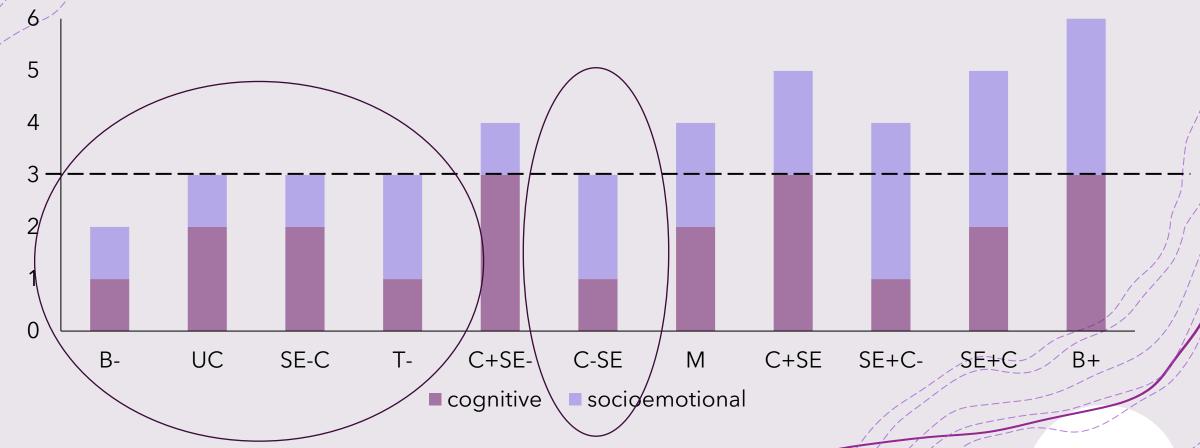
TABLE 3 Adjusted Standardized Regression Coefficients Depicting Associations Between Kindergarten School Readiness Skills and Outcomes at Age 17

Global Achievement			Dropout Risk		School Connectedness		Anxiety		Substance Abuse		Physical Activity	
	β	P	β	P	B	P	β	P	β	P	β	Р
No. knowledge	.17	>.001	20	>.001	0 1	.764	.024	.337	.06	.206	.01	.888
Receptive vocabulary	.04	.834	03	.162	.06	.264	11	.007	04	.445	.01	.078
Classroom engagement	.17	.004	20	.002	.1/5	.005	08	.098	21	>.001	.09	.047
R^2	.30	_	.35	_	.05	_	.10	_	.06	_	.10	_

Models are adjusted for child sex, low birth wt, kindergarten nonverbal IQ, emotional distress and physical aggression, parental involvement, maternal depression and immigrant status, family configuration, and socioeconomic status.

The propensity to succeed

Profiles of Kindergarten school readiness



Garon-Carrier et al. Psychology; Research & Review (2024)

Childcare as an opportunity factor for long-term academic success?





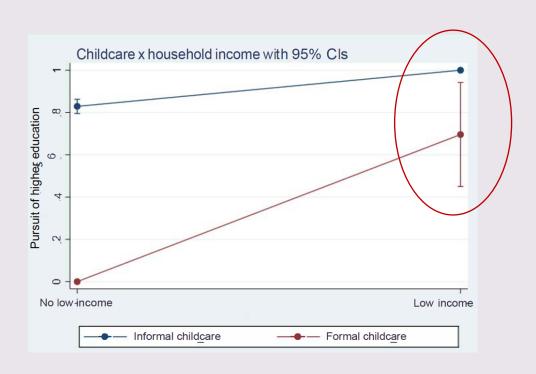
Children being cared for in licensed daycare center or family daycare

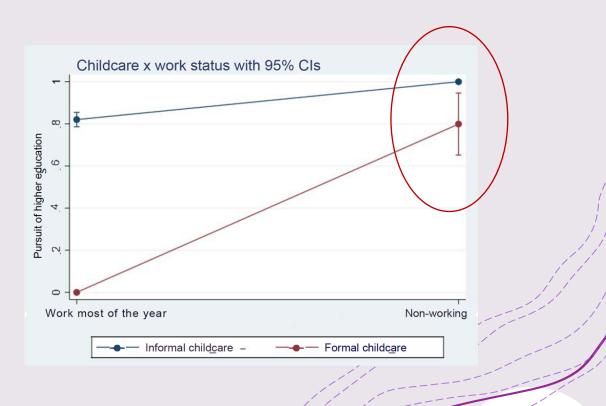




Children being cared for in their own home by a non-relative (ex., nanny) or being cared for by a relative (ex., grand-parent)

Childcare as an opportunity factor for long-term academic success





Creation of an affordable Canadawide childcare system

Bill C-35, An Act respecting early learning and child care in Canada



Parental leave as an opportunity factor for improving parent and child mental health

Benefit parents and family wellbeing











Engage parents in child rearing

Long-term outcomes

Andres et al., 2016; Choudhury et al., 2019; Hajizadeh et al., 2015; Jou et al., 2018; Margolis et al., 2021; Van Niel et al., 2020; Wray, 2020

Transition to parenthood: A stressful period

POSTPARTUM DEPRESSION

10-15 %

of women will
experience this
condition between a
week and a month
after delivery

POSTPARTUM OCD

3-5 %

of new mothers will experience symptoms of postpartum obsessive compulsive disorder

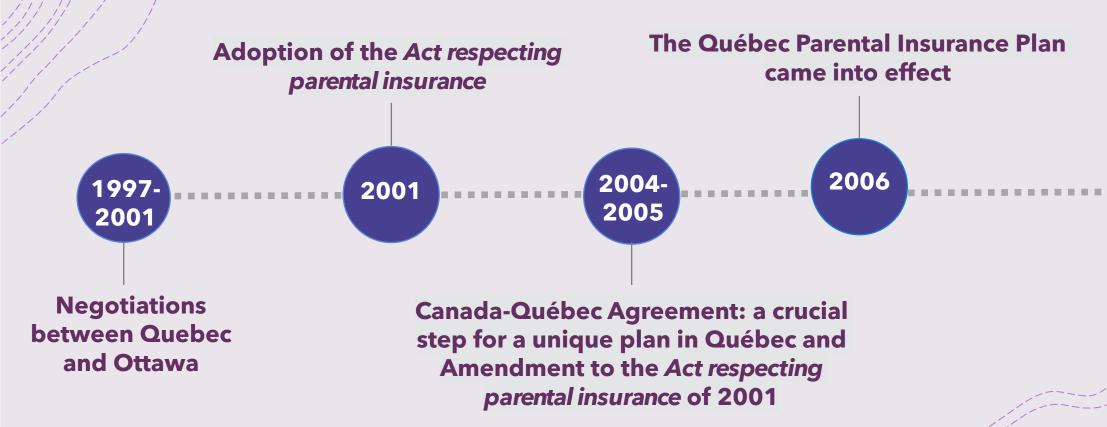
POSTPARTUM ANXIETY

9 %

of women experience postpartum posttraumatic stress disorder following child birth

Anxiety & Depression Association of America; Meltzer-Brody et al. (2018); Woody et al. (2017); Dennis et al. (2012); Yim et al. (2015); Don et al. (2014); Paulson & Bazemore (2010)

Parental leave in Quebec



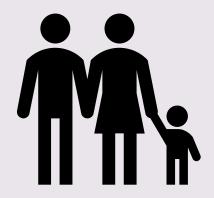
Parental leave and parent mental health

Single mothers: control group



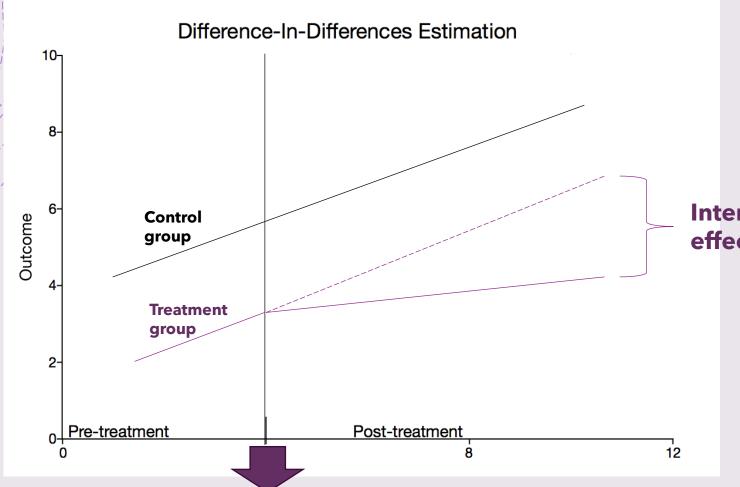
No change in the proportion of maternal mental health diagnosis after 2006

Mothers with a partner: treatment group



Decrease in the proportion of maternal mental health diagnosis after 2006

Garon-Carrier, et al. upcoming



Parental leave and maternal mental health

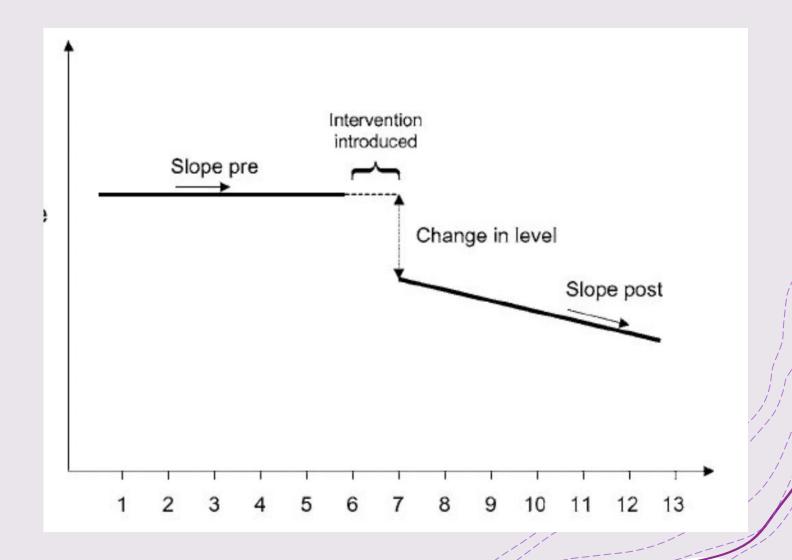
Intervention effect

Intervention : policy implementation in 2006

Parental leave and father mental health



Interrupted time series analysis to capture the effectiveness of a public population-level policy





Separation anxiety: the crossroad of adaptation and illness

- + First manifestations: 6-12 months
- + Developmentally appropriate up to age 6

	a. Severity continuum of separation anxiety behaviors						
	Average Difficulty Parameter	Separation Anxiety Behaviors					
	2.53	Reported illness when separation anticipated					
	2.46	Distress when anticipating separation					
	2.12	Worry about being left home without caregiver					
\	1.99	Separation nightmares					
		—95 th percentile					
	1.64	Worry about disaster separating child from caregiver					
	1.53	Worry about caregiver's safety/return home					
	1.32	Avoided going places without caregiver					
	1.01	Fearful of going to sleep without caregiver					



Attachment theory

 Maternal employment early after childbirth may pose a risk for separation anxiety



Transition to parenthood and SES

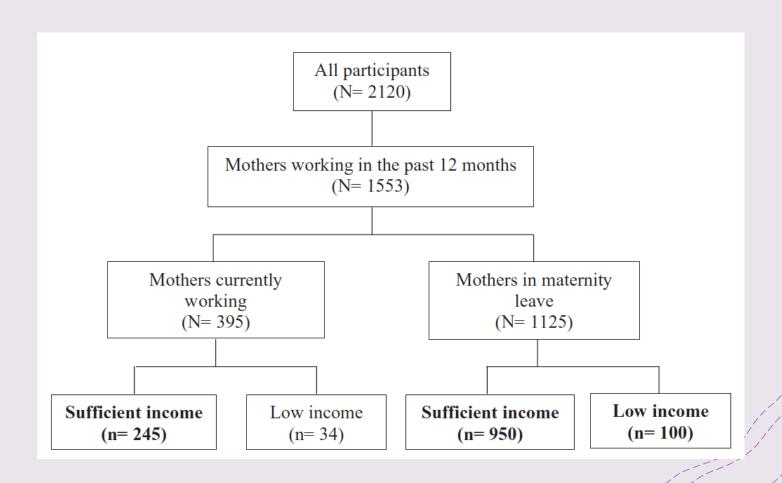
Type of Benefits	Basic Plan	Special Plan			
Maternity or exclusive to the person for pregnancy or childbirth	18 weeks 70% of earnings*	15 weeks 75% of earnings*			
Paternity or exclusive to the parent who did not give birth	5 weeks 70% of earnings*	3 weeks 75% of earnings*			
Parental shareable between the parents	 First 7 weeks: 70% of earnings* Next 25 weeks: 55% of earnings* 4 additional benefit weeks at 55% of earnings* once 8 shareable parental benefit weeks have been paid to each parent. 	25 weeks 75% of earnings* 3 additional benefit weeks at 75% of earnings* once 6 shareable parental benefit weeks have been paid to each parent.			

Economic perspective

Maternal employment brings economic and social resources that can benefit children

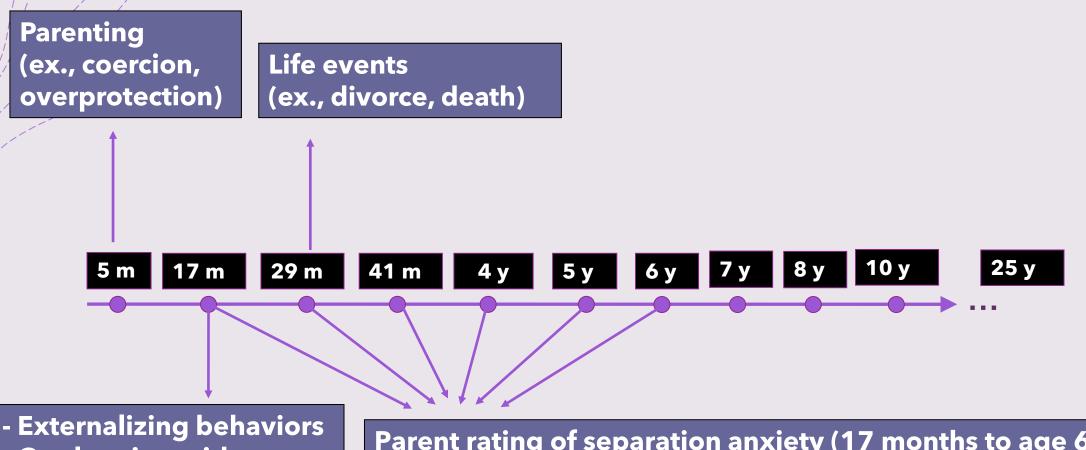


Parental leave as an opportunity factor for child mental health



Garon-Carrier et al. Health Education & Behavior (2023)

Separation anxiety and related measures in QLSCD

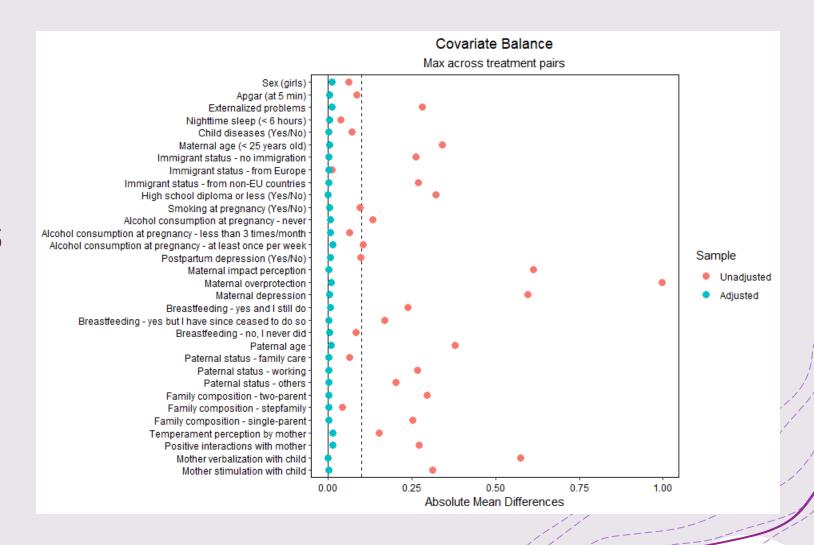


- Co-sleeping with parent
- Nighttime sleep

Parent rating of separation anxiety (17 months to age 6)

- react badly when a parent is away
- not want to sleep alone
- cling to adults and is too dependent

Parental leave as an opportunity factor for child mental health



Parental leave as an opportunity factor for child mental health

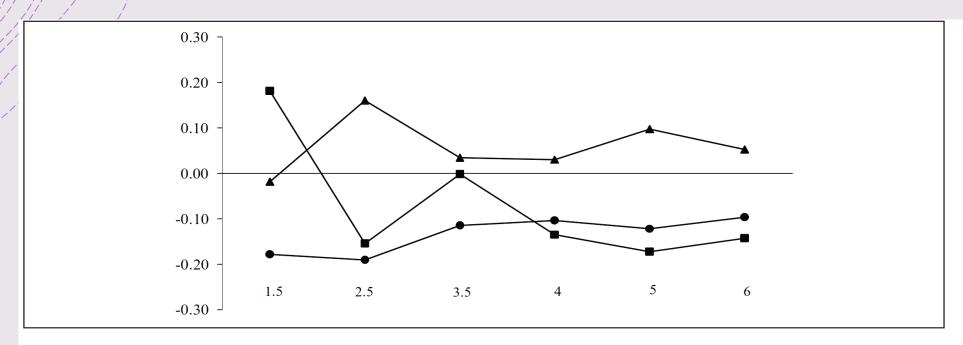


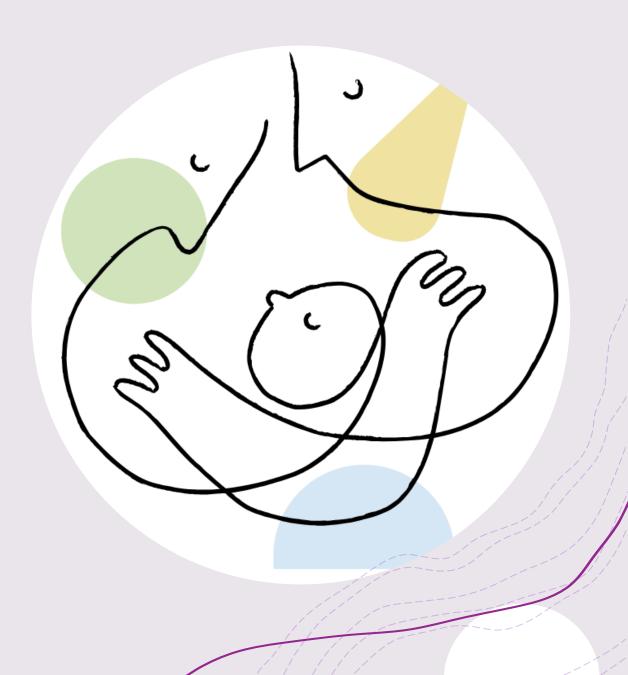
Figure 3. Patterns of Separation Anxiety Based on Factorial Scores: —— Children of Mothers in Maternity Leave With Low Income (n = 100, 7.7%), —— Children of Mothers in Maternity Leave With Sufficient Income (n = 950, 73.4%), and —— Children of Working Mothers (n = 245, 18.9%).

Source. Data courtesy of the Quebec Institute of Statistics.

Next steps

Family conditions during parental leave:

- + Part-time working status
- + Low educational attainment
- + Having an immigrant status
- + Belonging to a visible minority
- + Low-income status
- + Single parent





























The early learning and social adjustment research lab

https://www.lillab.org/

