

The Effects of Family Policy on Reducing Inequality of Social Capital in Childbirth

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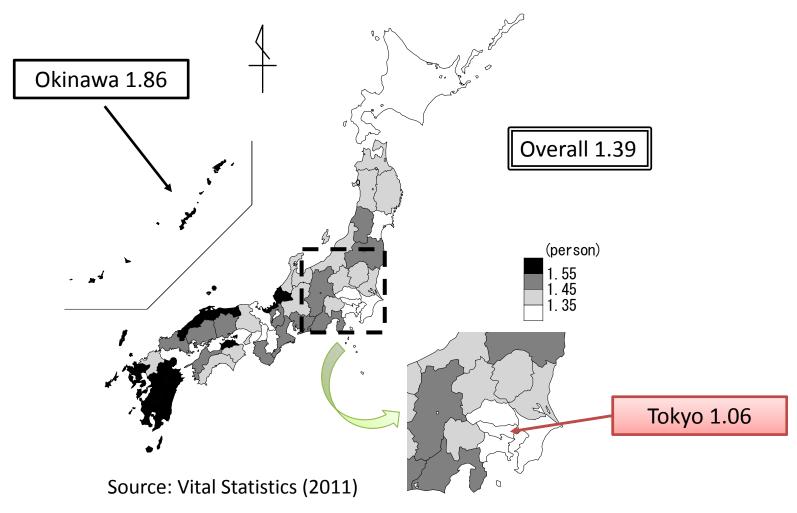


Organization of the Presentation

- Puzzle: Negative correlation b/w family policy and fertility rate?
- Possible answer: Latent function of rectifying the micro-level inequality of fertility behavior
- Data and methods: Multinomial logit
- **Findings:** Family policy reduces inequality of opportunity for family formation
- Conclusion

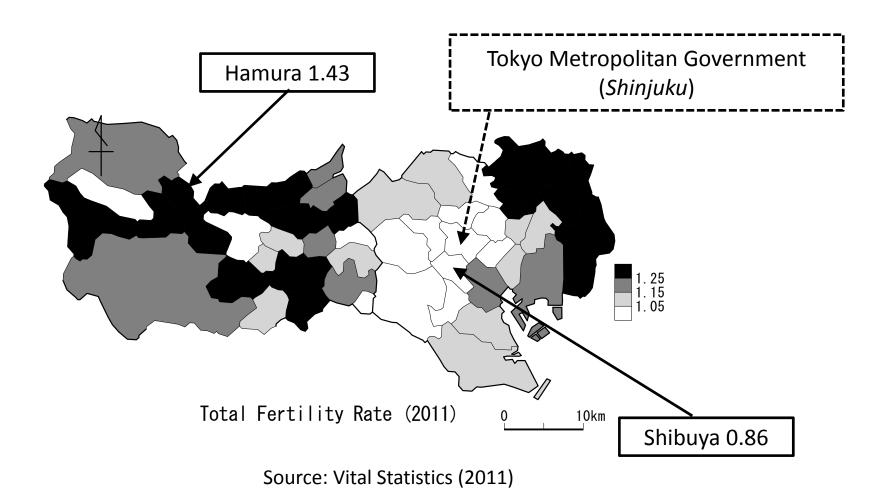


Total Fertility Rates in Japan (2011)





TFRs in 49 Municipalities in Tokyo





Family Policies by Municipal Governments

1. Work and life reconciliation

- Temporary day nursery
- Nursery in holidays
- 24-hour nursery

2. Financial support for childcare

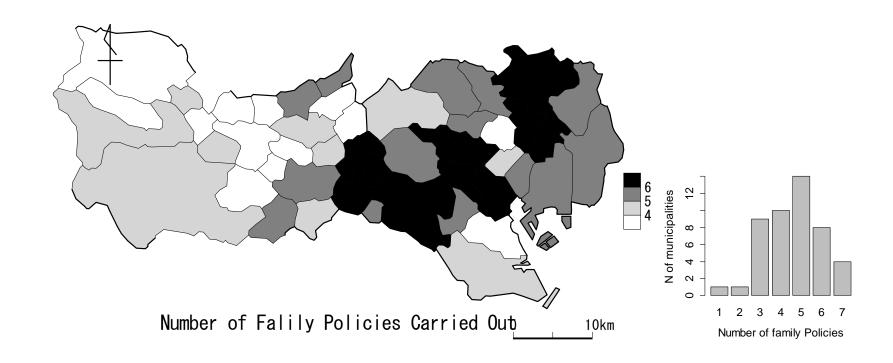
- Free nursery for the third or later children
- Subsidy for unauthorized nurseries

3. Encouragement of childcare by local community

- Reciprocical nursery by local community members
- Nursery by kindergartens
- Send a helper to mothers at the perinatal period

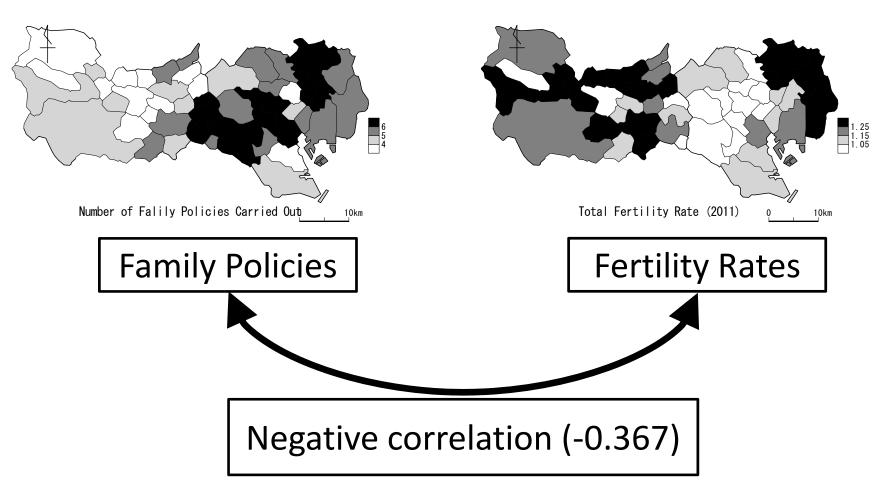


Number of Family Policies by Municipal Governments in Tokyo



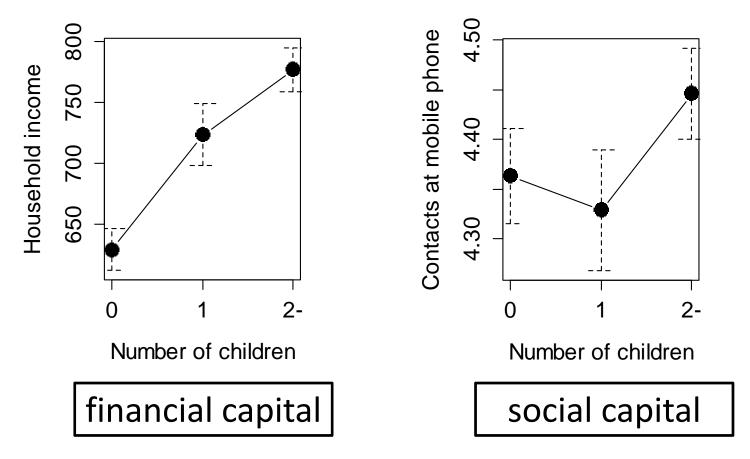


Puzzle: Family Policies and TFRs? (*Macro*-level)





Inequality of Family Formation? (*Micro*-level)



Source: Tokyo Survey on Marriage and Childcare (2011)



Research Questions

- What is the use of family policies?
 - They do not seem to increase fertility rate
 (at least in metropolitan area such as Tokyo).
 - How about their micro-level effects?
- Do family policies reduce the micro-level inequality of family formation?
 - Inequality of financial capital (=household income)
 - Inequality of social capital (=support by others)



- 1. Puzzle
- 2. Possible answer



- 3. Data and method
 - 4. Descriptive statistics
 - 5. Findings
 - 6. Conclusion

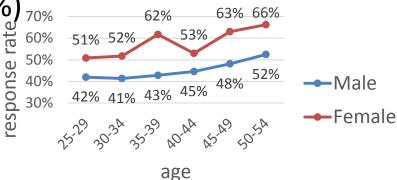


Data

Tokyo Survey on Marriage and Childcare

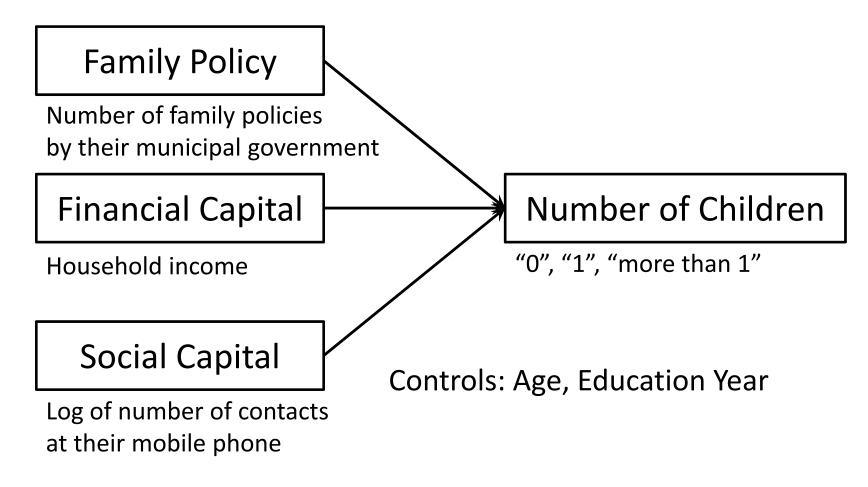
- Population: Residents in Tokyo b/w ages of 25 and 54
- Sample: Randomly selected individuals (= representative)
 - Frame: the Basic Resident Registration Network System
 - 50 individuals from each municipality (50 x 49 = 2,450)
 - Both sexes
 - All marital statuses (single, married, divorced, widowed)
- Method: Mail survey (from September to October 2011)

Reliable responses: 1,230 (51.0%)





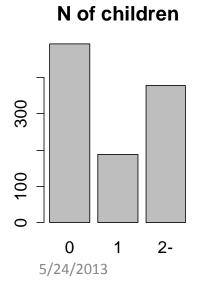
Method Multinomial Logistic Regression

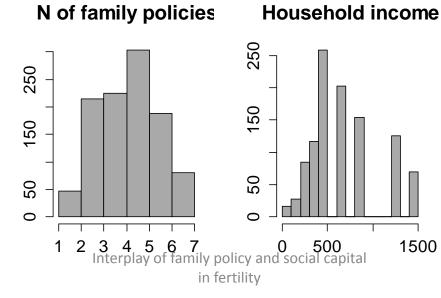


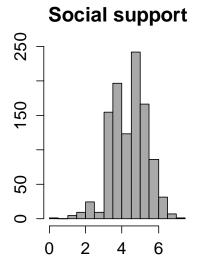


Descriptive Statistics

Variables	Range	Mean	SD
N of children	0, 1, 2-	0.985	1.056
N of family policy	1 - 7	4.560	1.368
Household income	50 – 1,500	698.7	372.3
Social support	0 - 7.018	4.387	0.965







1500



Correlation Coefficient Matrix

	Childre	en	Polic	У	Incor	ne	Suppo	ort	Age	
Policy	108	**								
Income	.180	**	.097	**						
Support	.037		.054		.165	**				
Age	.369	**	013		.151	**	102	**		
Education	099	**	.060		.352	**	.196	**	076	*

Note: N = 1,059. * < .05, ** < .01.

Effect on N of children...

Family Policy (-), Household Income (+), Social Support (n.s.)

Age (+), Education (-)



- 1. Puzzle
- 2. Possible answer
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Multinomial Logit of N Children

	$0 \rightarrow 1$			1 → 2-			
	Coe	f.	SE	Coe	f.	SE	
Family Policy	.398	*	.173	.119	*	.050	
Income	.001	***	.000	.001	*	.001	
Social Support	.668	***	.188	.199	***	.041	
Policy * Income				000	*	.000	
Policy * Support	140	***	.041	1			

Note: Reference category of DV(N Children) is "1".

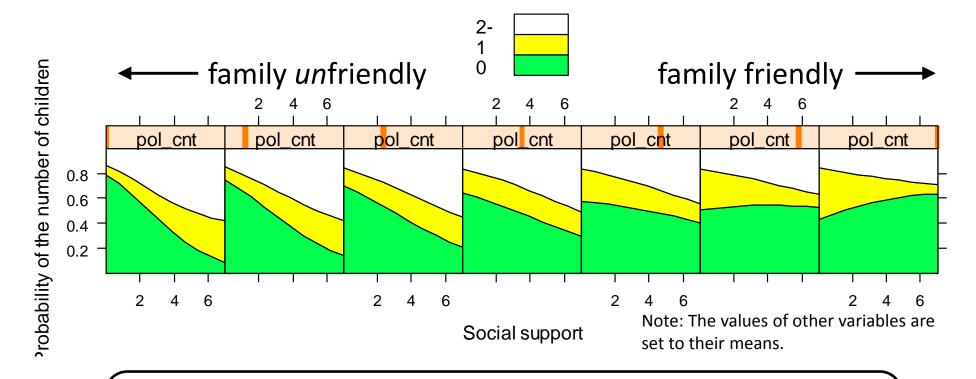
Control: Age(+), Education(-).

Policy $(+) \leftrightarrow$ Effect of Support on N Children (-)

Policy (+) ← Effect of *Income* on N Children (-)



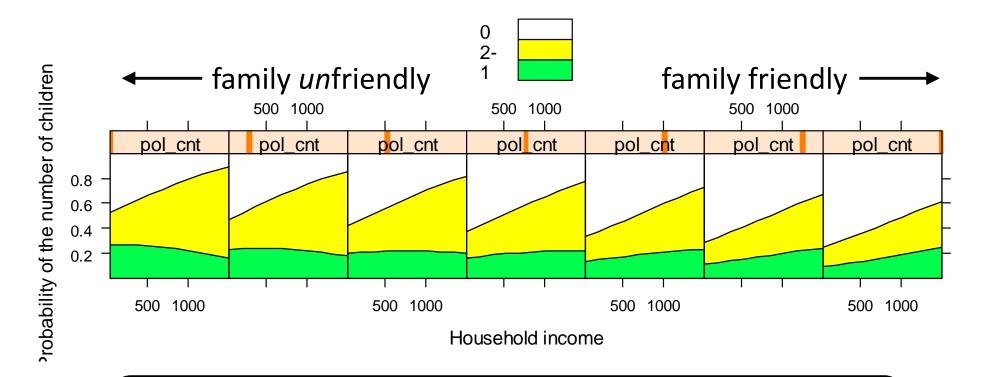
Whether to have the *first* child...



Interaction effect b/w Policy and *Support* on N of children: Policy $(+) \leftrightarrow Effect$ of Support (-)



Whether to have the second child...



Interaction effect b/w Policy and *Income* on N of children: Policy $(+) \leftrightarrow \textit{Effect}$ of Income (-)



Conclusion

	0 → 1	1 → 2-		
Family Policy	+	+		
Household Income	+	+		
Social Support	+	+		
Interaction	Policy (+) ↔	Policy (+) ↔		
Interaction	Effect of Support (-)	Effect of <i>Income</i> (-)		

- Puzzle: Negative correlation b/w policy and TFR at macro-level.
 - Family policies promote fertility behavior at micro-level.
- Question: Can family policy reduce inequality of opportunity for family formation?
 - Yes. Family policies rectify unequal distribution of financial(=income) and social(=support) capital at microlevel.

Thank you for your attention!

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