



Czech fertility postponement at the turn of the millennium

Lab talk, 19. 11. 2019

Jitka Slabá, Charles University (Prague)

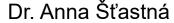
Department of Demography and Geodemography

Research groups:

- Center for Survival Studies and Data Analysis
- Center for Population Forecasting and Applied Demography
- Center for Historical Demography
- Centre for Development Demography
- **Centre for Fertility Study**



doc. Jiřina Kocourková Dr. Anna Šťastná Dr. Luďek Šídlo













Research project:

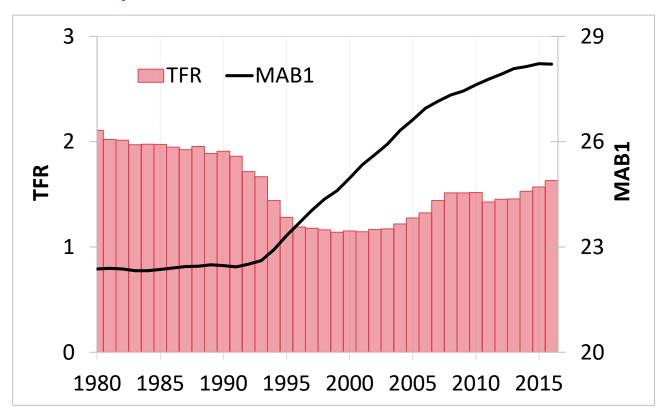
- Czech Science Foundation, 2015-2017, Project no. 15-09443S: Risks of childbearing postponement: A new role for family policies
- Czech Science Foundation, 2018-2020, Project no. 18-08013S: Transition towards the late childbearing pattern: individual prospects versus societal costs
- Grant Agency of Charles University, 2019, Project no. 378219: Unemployment as a cause of a fertility postponement

CONTENTS

- Fertility development in Czechia
- Data
- Results

CZECHIA: FERTILITY DEVELOPMENT

The development of TFR and MAB1, Czechia, 1980–2016



(year – MAB = cohort) 1990 – 22 = 1968 2016 – 28 = 1988

Source: Human Fertility Database [07. 06. 2019]



DATA AND METHODS



Women 2016 Survey

- 1257 respondent
- Representative for age, region and education
- Women born between years 1966 and 1990

Used methods

- Contingency tables: chi-square test
- Binary logistic regression
- Kaplan–Meier survival analysis

Cohort groups:

1966-1970

N = 260

1971-1982

N = 687

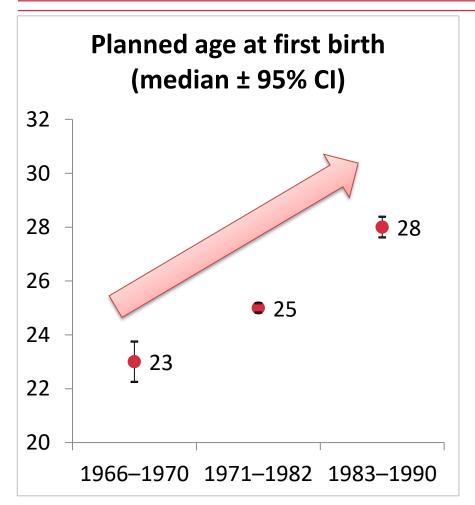
1983-1990

N = 310



PLANNED AND UNPLANNED POSTPONEMENT

POSTPONEMENT OF PLANNED AGE AT FIRST BIRTH



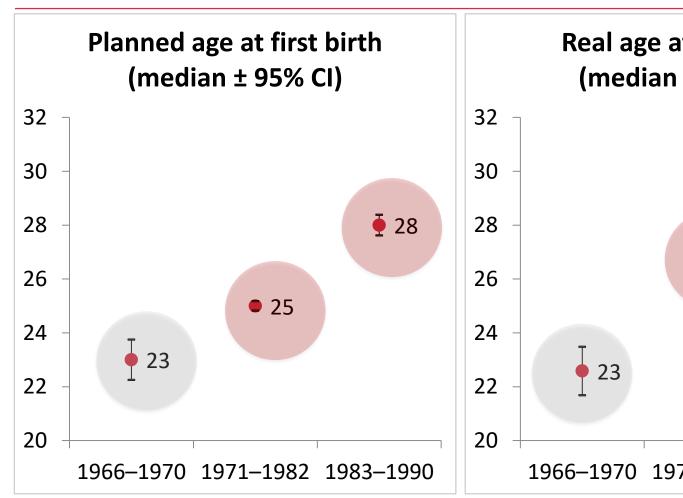
What was the age at which you planned to have your first child?

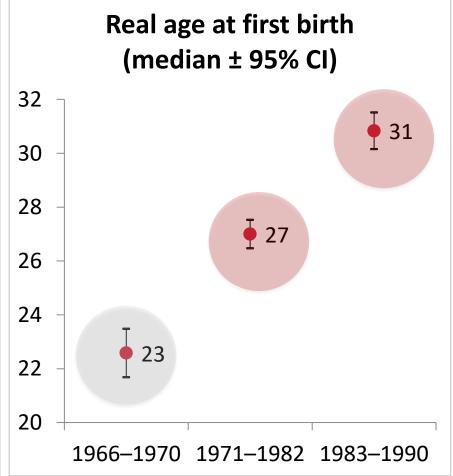
PLANNED POSTPONEMENT

Women 2016 Survey, Kaplna-Meier, unweighted dataset



PLANNED AND REAL AGE AT FIRST BIRTH





Women 2016 Survey, Kaplna-Meier, unweighted dataset

UNPLANNED POSTPONEMENT

DECLARED UNPLANNED POSTPONEMENT OF FIRST BIRTH (sub-group's variation and reasons)

Šťastná A., Slabá, J. Kocourková J. 2017. Plánování, načasování a důvody odkladu narození prvního dítěte v České republice. (English title: **The planning, timing, and factors behind the postponement of first births in the Czech Republic**). Demografie, 59, 207–223.

https://www.czso.cz/documents/10180/46203816/stastna.pdf/0cf15559-1e0a-4b47-a7d6-e8faeb236404?version=1.0

SELECTED RESULTS - UNPLANNED P. OF FIRST CHILD

Compared to the planned age, your first child was born/will be born:

Declaration of unplanned postponement of 1st child (%)									
	later	according	to plan	earlier	don't know	N			
Total	32.2	44.2		19.0	4.6	1222			

Women 2016 Survey, weighted dataset



SELECTED RESULTS - UNPLANNED P. OF FIRST CHILD









Factors explaining a first birth occuring later than planned and the presence of the given factor within selected sociodemographic categories, %

		Material	Work and		No suitable	Health	N
Celkem		45.0	38.1		44.7	48.9	394
Planned age at	24 and under	43.1	27.5	-	36.6	49.5	101
second birth	25–29 year	46.5	40.0		43.0	47.0	200
Second birtin	30 and over	43.0	45.2		57.0 ++	51.6	93
	1966–1970	36.4	20.4		41.8	56.4	55
Cohort	1971–1982	38.4	27.6		43.3	54.4 +	203
	1983–1990	58.1 +++	60.3	+++	48.5	37.5	136
	Basic and vocational	44.7	24.7		30.6	61.2 +	85
Education	Secondary with the school leaving exam	45.5	33.9		51.1 +	45.7	186
	Tertiary	44.7	53.3	+++	44.7	45.1	123
Planned number	1 child	50.0	41.9		48.2	60.5 +	86
of children	2 or more children	43.5	37.0		43.8	45.5 -	308
Current number	Childless	57.7 +++	58.5	+++	60.0 +++	42.3	130
of children	1 or more children	38.6	28.0		37.1	52.1	264
Celkem		38.6	27.9		37.1	52.1	264
Deal are at the	24 and under	48.0	22.4		26.0	46.9	50
Real age at the	25–29 year	35.5	26.4		24.3	45.9	110
first birth	30 and over	37.5	32.0		56.3 +++	61.2 +	104

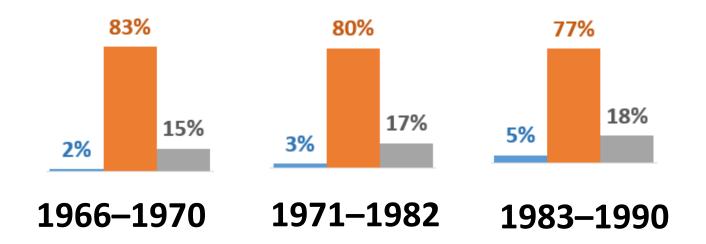
Women 2016 Survey, weighted dataset

DECLARED UNPLANNED POSTPONEMENT OF SECOND BIRTH (sub-group's variation and reasons)

Šťastná A., Slabá, J. Kocourková J. 2019. Druhé dítě – neplánovaný odklad a časování jeho narození. (English: **Reasons for the unplanned postponement and timing of the birth of a second child**). Demografie, 61, 77–92. https://www.czso.cz/documents/10180/91917740/13005319q2 77.pdf/b0972342-7094-4feb-bf85-f0acb04e1f30?version=1.0>

SELECTED RESULTS - IDEALS

Ideal family size (N=1257)



No child or 1 child 2 children 3 or more children

Women 2016 Survey, weighted dataset



SELECTED RESULTS - UNPLANNED P. OF SECOND CHILD

Declaration of unplanned postponement of 2nd child (%)										
		later		according to plan		earlier		don't know		N
Total		34.1	L	43		16.7	16.7		6.2	
Planned age at the 1st	24 and under	28.9		46.7	+	19.9	+	4.5	-	443
birth	25–29 year	40.1	++	38.4	-	14.4		7.1		353
DITTI	30 and over	35.7		42.9		8.6		12.9	+	70
Planned age at the 2nd	24 and under	30.4		54.4	++	13.3		1.9	-	158
birth	25–29 year	32.5		42.7		20.7	++	4	-	372
DITTH	30 and over	37.4		38	-	13.9		10.7	+++	337
	1966–1970	19.7		49.5	+	23.6	++	7.2		209
Cohort	1971–1982	38.9	+++	41.3		14.3	-	5.5		526
	1983–1990	37.9		40.2		15.2		6.8		132
	Basic and vocation	30.7		42.5		20.4	+	6.3		348
Education	Secondary with s	33.7		43.8		15.9		6.6		364
	Tertiary	42.5	+	42.5		10.5	-	4.6		154
Current number of	1 child	46.5	+++	17.6		1.9		34	+++	159
children	2 and more child	31.3		48.8	+++	19.9	+++	0		707
Unplanned No		27.4		46.9	+++	19.9	+++	5.8	+++	654
postponement of 1st	Yes	54.9	+++	31.5		6.6		7		213

Women 2016 Survey, weighted dataset



SELECTED RESULTS - UNPLANNED P. OF SECOND CHILD

Factors explaining a second birth occuring later than planned and the presence of the given factor

ed socio-demographic ca

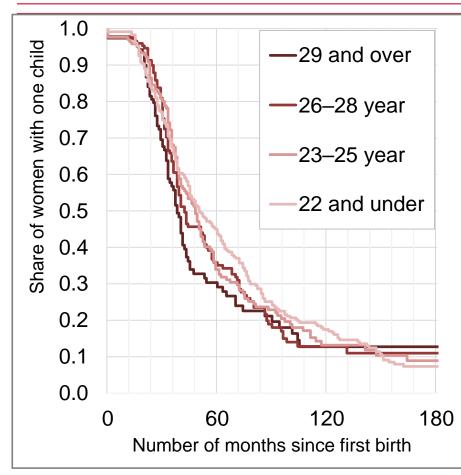
		Factors									
		Work and		Material	No suitable		Role of the	Health	N		
		study		condition	partner		first child	problems	IN		
Celkem / Total		31.9		33.1	33.1		45.8	45.8	295		
Dlanned ago at second	24 and under	26.5		27.1	49.0	++	33.3	38.8	48		
Planned age at second birth	25–29 year	24.0	-	33.1	33.1		44.6	46.3	121		
DILLI	30 and over	42.1	++	34.9	26.8	-	51.6	48.0	126		
	1966–1970	19.0		24.4	31.7		29.3 -	43.9	41		
Cohort	1971–1982	32.7		31.4	32.4		47.1	47.5	204		
	1983–1990	40.0		46.0 +	36.0		56.0	40.0	50		
	Basic and vocational	25.0		29.9	37.0		31.8	44.9	107		
Education	Secondary with the	24.4		25.0	25.0		50.0	42.0			
Education	school leaving exam	34.1		35.0	35.8		52.0	43.9	123		
	Tertiary	38.5		35.4	21.5	-	56.9 +	50.8	65		
Current number of	1 child	37.8		48.6 ++	44.0	+	56.8 +	52.7	74		
children	2 or more children	29.9		27.9	29.4	-	42.1 -	43.4	221		
Unplanned postp. of the	No	37.4	++	38.2 +	36.5		31.3	46.4	179		
1st birth	Yes	23.1		24.8 -	27.4		68.4 +++	44.4	117		
Real age at the first birth	24 and under	29.8		34.6	38.2		31.5	43.5	130		
	25–29 year	36.0		35.1	24.3	-	45.9	44.1	111		
	30 and over	29.6		24.1	38.9		79.6 +++	55.6	54		

Note: + and - indicate statistically significant differences between the observed and the expected frequency, p<0.001: +++/---; p<0.01: +-Source: Ženy 2016 (Women 2016 Survey), N=295 women who stated that they had/will have their first child later than planned

SPACING OF FIRST AND SECOND CHILD

Šťastná A., Slabá, J. Kocourková J. 2019. Druhé dítě – neplánovaný odklad a časování jeho narození. (English: **Reasons for the unplanned postponement and timing of the birth of a second child**). Demografie, 61, 77–92. https://www.czso.cz/documents/10180/91917740/13005319q2 77.pdf/b0972342-7094-4feb-bf85-f0acb04e1f30?version=1.0>

SELECTED RESULTS - SPACING OF FIRST AND SECOND CHILD



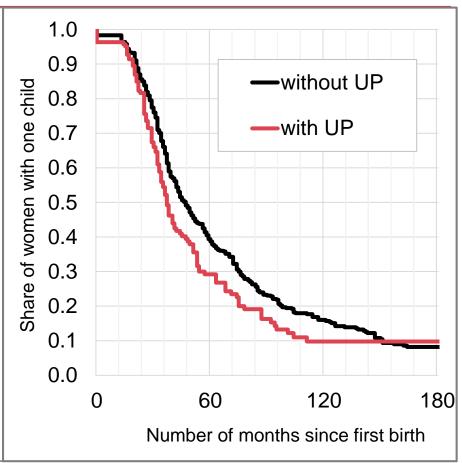


Fig. 1: Timing of 2nd birth by age at first birth

Fig. 2: Timing of 2nd birth by **unplanned postponement of first birth**

PLANNED + UNPLANED POSTPONEMENT





INDIVIDUAL EXPERIENCE OF UNEMPLOYEMENT AS A CAUSE OF FIRST BIRTH POSTPONEMENT?

Slabá, J. (in review). Nezaměstnanost ženy jako příčina odkladu založení rodiny? (English title: **Unemployment as a cause of first birth postponement?**). Sociológia.

UNEMPLOYMENT → 1ST BIRTH POSTPONEMENT

MOTIVATION

- Almost 1/3 of women additionally postpone their plan of 1st birth
- The subjective reasoning of this postponement is:

ŽENY 2016









- How does the individual life experience influence the fertility plan?
- Is it possible to "predict" unplanned postponement?





ŽENY 2016

UNEMPLOYMENT → 1ST BIRTH POSTPONEMENT

THE RELATIONSHIP OF INDIVIDUAL UNEMPLOYMENT EXPERIENCE AND FERTILITY TIMING

 EDUCATION - the highly educated women postpone X for low educated women it initiate fertility

(Yu – Sun 2018; Schmitt 2012; Kreyenfeld 2010; Kreyenfeld 2005; Vikat 2004; Meron – Widmer 2002)

- THE LENGTH OF UNEMPLOYMENT heterogeneous effect (Meron – Widmer 2002; Vikat 2004; Kravdal 2002)
- PREVIOUS STATUS not unemployment but job loss lead to postponement

(Del Bono – Weber – Ebmer 2015)

 SUBJECTIVE UNCERTAINTY - macroeconomic context: financial crisis effect on TFR? / temporary job contracts

(Kreyenfeld 2005; Gutiérrez-Domènech 2008; Kocourková a kol. 2019; Adsera 2011; Billingsley 2010)

DIFFERENT RISK OF UNEMPLOYMENT

Generally: young and low educated have high risk of unemployment

UNEMPLOYMENT → 1ST BIRTH POSTPONEMENT

TOTAL NUMBER OF RESPONDENT = 1212

188 RESPONDENTS WITH INDIVIDUAL EXPERIENCE OF UNEMPLOYMENT

The unemployment occurrence across the educational and cohort group

		Model			
		Exp(B)	S.E.		
	Secondary and				
Education	less	ref.			
	Tertiary	0.464***	0.174		
Cobort	1966–1982	ref.			
Cohort	1983-1990	1.652**	0.170		
Constant		0.123***	0.251		
Negelkerke	R	0.032			

THE UNPLANNED POSTPONEMENT OF FIRST BIRTH

Higher odd for:

- HIGHLY EDUCATED
- YOUNGER COHORTS

Who experienced (exp(B)):

- JOB LOSS (1.811*)
- UNEMPLOYMENT IN 2008 or later (1.888**)

Not significant for women who experienced:

- UNEMPLOYMENT without specification (1.371)
- UNEMPLOMENT for 6 months or more (1.236)

Women 2016 Survey, unweighted dataset



Association with unplanned postponement reasoning

Reasoning		TOP 3		High Edu		cohort 1982–1990		Job loss		Unempl. in 2008 or later	
	N	%	%		%		%		%		
My or my partner's health	85	19.9	15.7		13.3		14.6		17.0		
It took longer to get pregnant than I expected	103	24.1	21.2	-	19.2		22.0		19.1		
My partner wished to have a first child later	42	9.8	8.8		10.6		NPDA		NPDA		
Because I was a student/was improving my qualifications I could not have a first child earlier	55	12.9	19.0	+++	18.8	+++	9.8		14.9		
My work and professional activities prevented me from having a first child earlier	48	11.2	14.6	++	16.1	+++	14.6		10.6		
Concerns about unemployment/losing one's job/ending up in a worse job	39	9.1	12.0	+	12.2	++	NPDA		NPDA		
My interests prevented me from having a second child earlier	13	3.0	4.7		4.3		NPDA		NPDA		
Unsuitable housing situation	65	15.2	13.1		15.7		26.8	+	31.9	+++	
Lack of money	63	14.8	14.2		17.6	+	22.0		27.7	++	
l didn't have a suitable partner	157	36.8	36.1		36.9		39.0		36.2		
Broke up with/divorced my partner	72	16.9	17.5		19.2		24.4		21.3		
Other important reason	34	8.0	8.4		7.1		NPDA		NPDA		

WHAT IS NEXT?

- Qualitative research: in-depth interviews about "unplanned" postponement of first birth
 - Specification of unplanned postponement reasoning
 - Life stage: specific reasoning of unplanned postponement?
 - Sequential character of unplanned postponement reasoning?
- Education and Partner history influence on the unplanned postponement of first birth



PAPERS

Šťastná A., Slabá, J. Kocourková J. 2017. Plánování, načasování a důvody odkladu narození prvního dítěte v České republice. (English title: **The planning, timing, and factors behind the postponement of first births in the Czech Republic**). Demografie, 59, 207–223. https://www.czso.cz/documents/10180/46203816/stastna.pdf/0cf15559-1e0a-4b47-a7d6-e8faeb236404?version=1.0>

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Šťastná A., Slabá, J. Kocourková J. 2019. (in progress). Family planning and unplanned postponement of childbearing.

