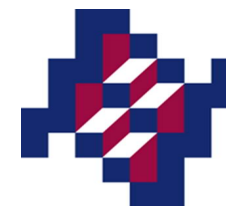


# **Disparities in access to first trimester legal abortion in the public sector in Mexico City: Who presents past the gestational age limit?**

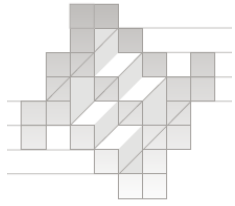
Blair G. Darney, PhD, MPH  
FIAPAC, Lisbon, 2016

Fri, Oct 14, Concurrent session 01, 14:00



Instituto Nacional  
de Salud Pública

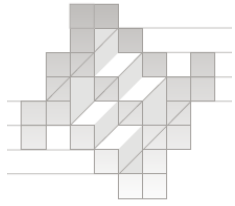




# Background

- 2007: 1st trimester abortion decriminalized in Mexico City
- Public abortion services (Secretaria de Salud DF)
  - *Interrupción Legal de Embarazo* – ILE
- Gestational age limit = 12 weeks
  - Not eligible for ILE 12+ weeks

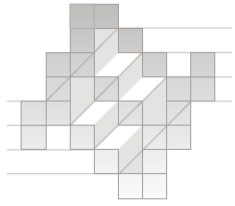




# Objective

*Who presents past the gestational age limit in Mexico City's ILE program?*

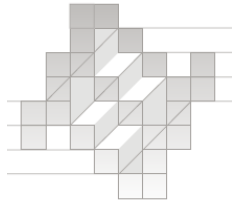




# Methods (1)

- Data
  - Clinical data from the *Interrupción Legal de Embarazo* program, 2007-2015
  - 43,139 from 2 clinics (2008-2012)
  - 7,830 extracted from paper charts in 2 hospitals (2007-2015)
    - 10% random re-abstraction and data quality check

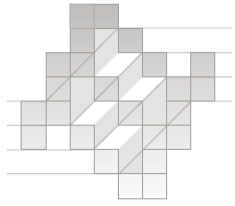




# Methods (2)

- Data
  - Clinical data
  - Socio-demographics
- Primary outcome
  - Presenting for services past the gestational age limit of 12 weeks gestation

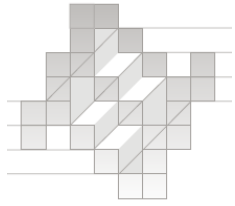




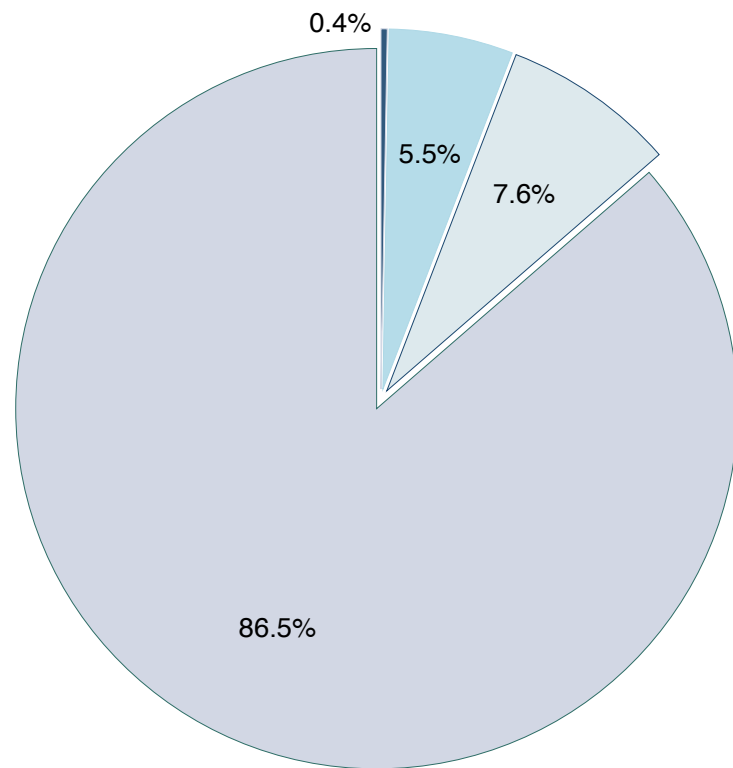
# Methods (3)

- Analysis
  - Descriptive and bivariate
  - Multivariable logistic regression models
    - Cluster on clinical site
  - Predicted probabilities/margins
  - Sensitivity analyses
    - Model robust to specification

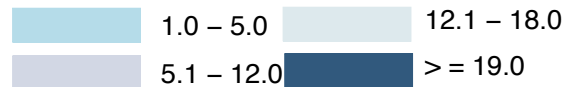




# Results: Gestational age

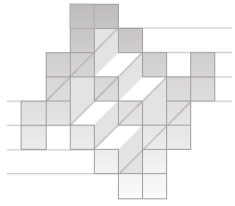


Gestational age: weeks



- N=48,486
- 87% between 5-12 weeks
- 8% 12-18 weeks



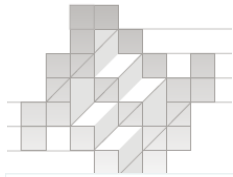


# Results: Sample

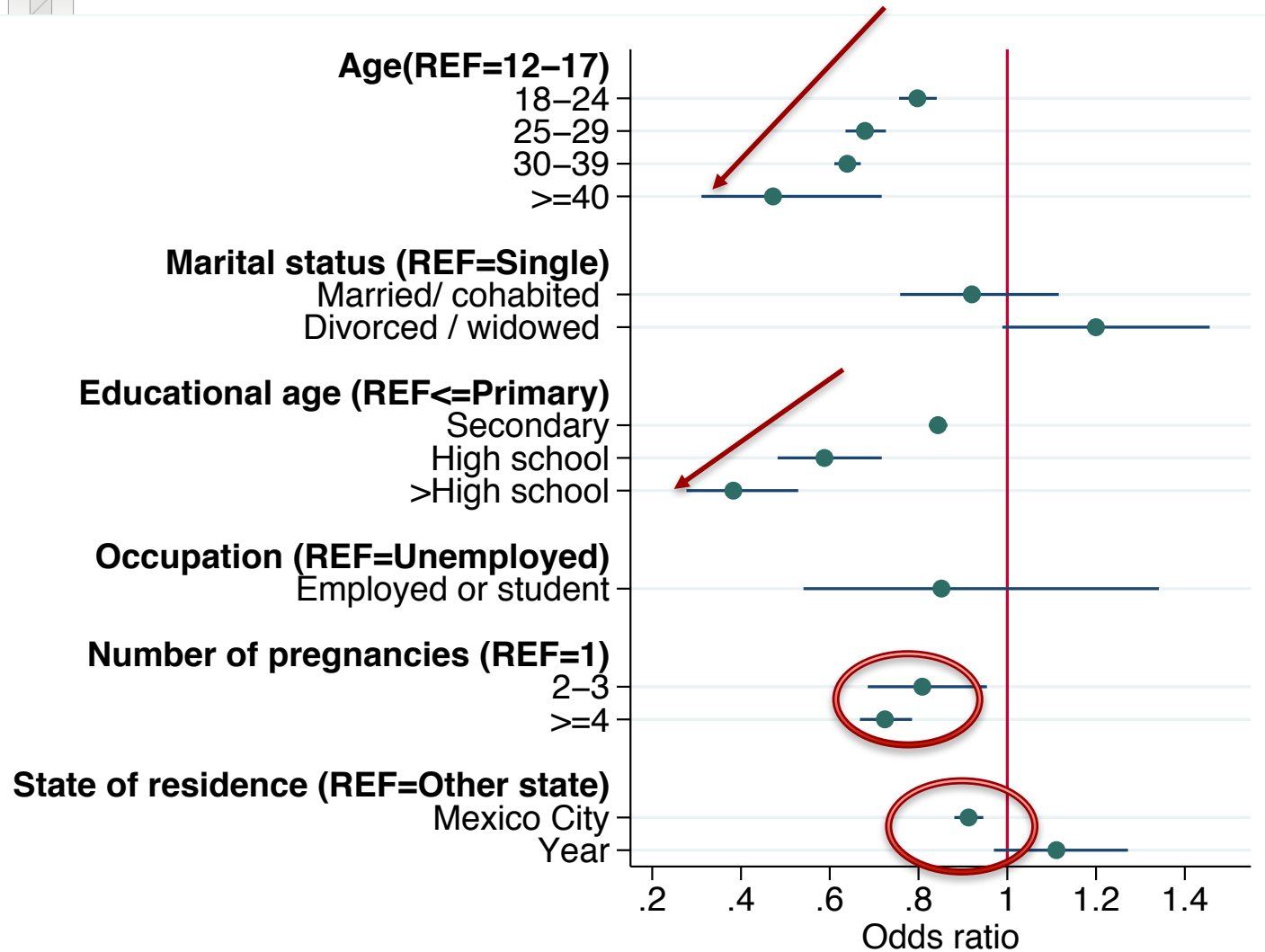
- 9% Adolescents (12-17)
- 41% not married or cohabiting
- 30% from outside Mexico City
  - 25% from Mexico State, 5% other states
- 35% had not experienced a previous pregnancy

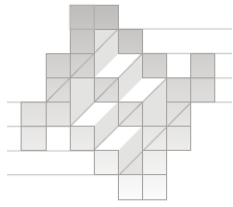




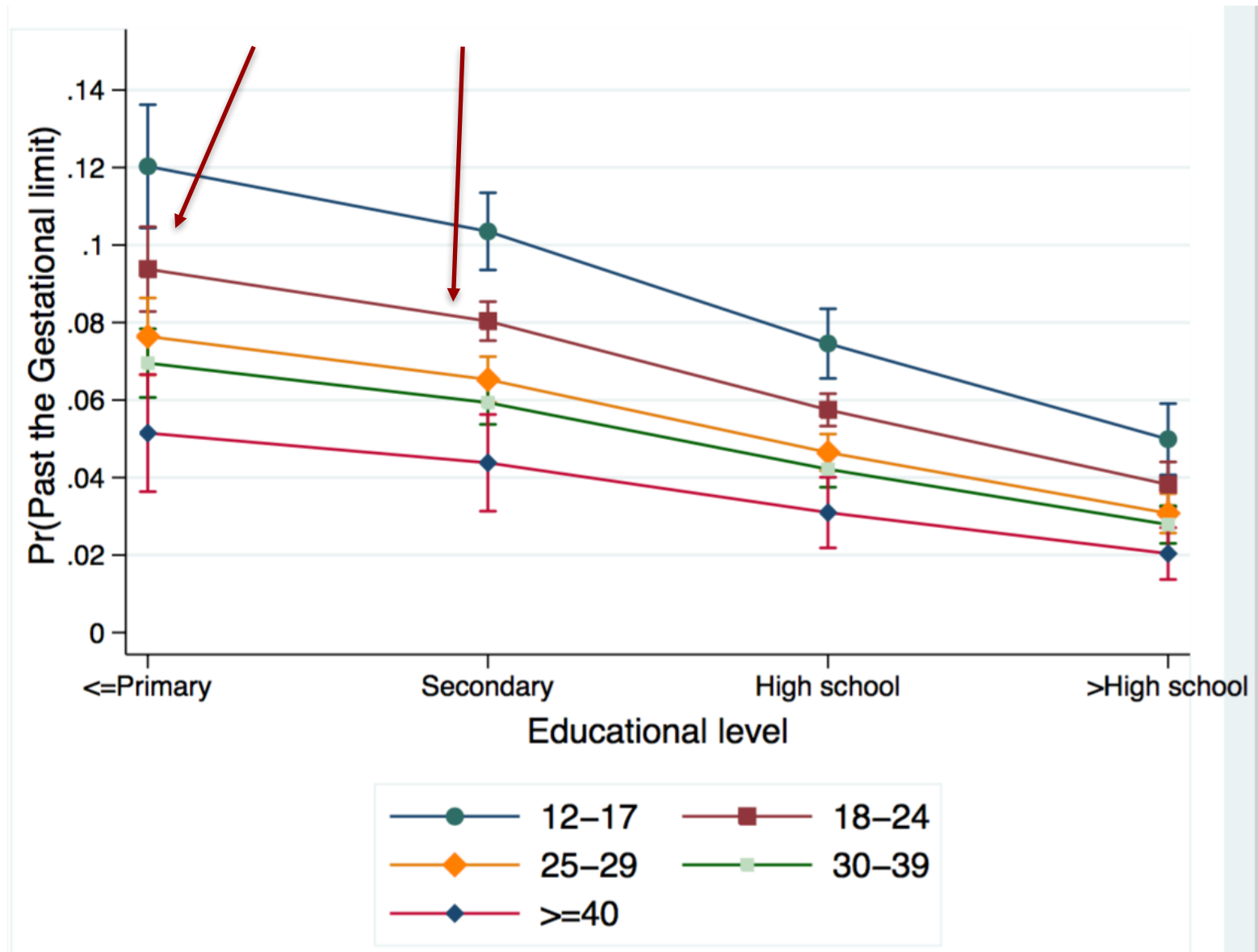


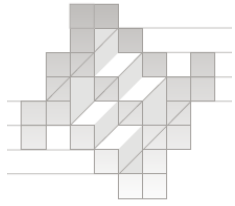
# Results: Models





# Results: Margins

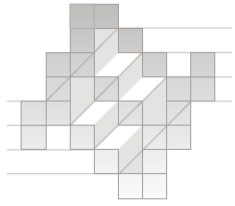




# Conclusions

- Key characteristics of delay presenting for abortion services in Mexico City's ILE program:
  - Age & Education
- Diffusion of the law/availability of services
- Efforts to promote earlier
  - Recognition of pregnancy
  - Entry to care for legal abortion
- Should target young and less educated women





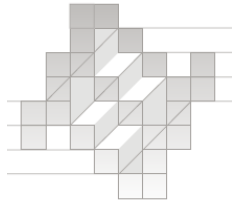
# Thank you for your attention

[blair.darney@insp.mx](mailto:blair.darney@insp.mx)

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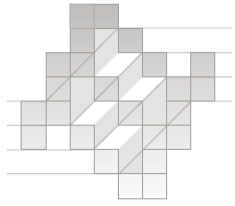




# Extra slides

- ILE: more information
- Table 1. Socio-demographic characteristics of
- Table 2. Multivariable analysis
- Table 3: Predicted probabilities (by age & edu)
- Sensitivity analyses





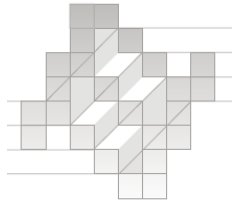
# ILE: more information

- Total numbers in ILE (link)
  - <http://ile.salud.cdmx.gob.mx/estadisticas-interrupcion-legal-embarazo-df/>



	Past the gestational age limit	Had an abortion	Total
	8% (n=4,155)	92% (n=44,331)	100 (n=48,486)
	%		
<b>Age**</b>			
12-17	13.26	8.37	8.79
18-24	49.92	47.32	47.54
25-29	18.77	21.49	21.26
30-39	15.91	20.01	19.66
>=40	1.71	2.61	2.53
missing	0.43	0.19	0.21
<b>Marital Status</b>			
Single	34.22	41.61	40.98
Married/ cohabited	41.66	51.3	50.47
Divorced / widowed	4.67	5.28	5.23
missing	19.45	1.8	3.31
<b>Educational level **</b>			
Primary or lower	8.66	8.70	8.7
Secondary	45.73	46.85	46.76
High school	21.73	31.83	30.96
Geater than high school	4.55	10	9.53
missing	19.33	2.62	4.05
<b>Occupation **</b>			
Unemployed, housewife	19.18	22.9	22.58
Employed or student	61.16	75.23	74.03
missing	19.66	1.86	3.39
<b>State of residence *</b>			
Mexico City	68.21	69.98	69.83
<b>Numer of pregnancies **</b>			
1	31.67	35.39	35.07
2-3	33.45	45.53	44.49
>=4	12.35	18.31	17.8
missing	22.53	0.77	2.64
<b>year**</b>			
2007-2009	29.8	22.08	22.74
2010-2012	67.7	74.72	74.12
2013-2015	2.48	3.16	3.10
missing	0.02	0.03	0.03

Table 1. Socio-demographic characteristics of women who presented for ILE services



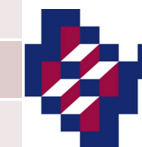
**Table 3. Adjusted Probabilities of presenting for abortion services past the gestational limit**

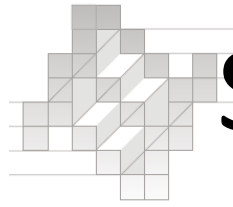
<b>Among women aged 12-17</b>		
<b>Educational level</b>		
<b>Primary or lower</b>	0.12	[0.104-0.136]
<b>Secondary</b>	0.10	[0.093-0.113]
<b>High school</b>	0.07	[0.065-0.083]
<b>Greater than high school</b>	0.05	[0.040-0.059]
<b>Among women aged 18-24</b>		
<b>Educational level</b>		
<b>Primary or lower</b>	0.09	[0.082-0.010]
<b>Secondary</b>	0.08	[0.075-0.085]
<b>High school</b>	0.06	[0.053-0.061]
<b>Greater than high school</b>	0.04	[0.032-0.044]
<b>Among women aged 25-29</b>		
<b>Educational level</b>		
<b>Primary or lower</b>	0.08	[0.066-0.086]
<b>Secondary</b>	0.06	[0.059-0.071]
<b>High school</b>	0.05	[0.041-0.051]
<b>Greater than high school</b>	0.03	[0.025-0.035]
<b>Among women aged 30-39</b>		
<b>Educational level</b>		
<b>Primary or lower</b>	0.07	[0.060-0.078]
<b>Secondary</b>	0.06	[0.053-0.064]
<b>High school</b>	0.04	[0.037-0.046]
<b>Greater than high school</b>	0.03	[0.023-0.032]
<b>Among women aged &gt;=40</b>		
<b>Educational level</b>		
<b>Primary or lower</b>	0.05	[0.036-0.066]
<b>Secondary</b>	0.04	[0.031-0.056]
<b>High school</b>	0.03	[0.021-0.040]
<b>Greater than high school</b>	0.02	[0.013-0.027]



Table 2.  
Multivariable  
analysis

1= Presenting for abortion services past the gestational limit 0= medication or aspiration abortion		
n= 45,433	OR	CI 95%
<b>Age (REF= 12-18)</b>		
19-24	0.80**	[0.756 - 0.841]
25-29	0.68**	[0.636 - 0.727]
30-39	0.64**	[0.610 - 0.670]
>=40	0.47**	[0.311 - 0.717]
<b>Marital status (REF= Single)</b>		
Merried/ cohabited	0.92	[0.759 - 1.116]
Divorced / widowed	1.2	[0.989 - 1.456]
<b>Educational age (REF= primary or lower)</b>		
Secondary	0.84**	[0.823 - 0.865]
High school	0.59**	[0.482 - 0.717]
Geater than high school	0.38**	[0.277 - 0.529]
<b>Occupation (REF=Unemployed, housewife)</b>		
Employed or student	0.85	[0.541 - 1.342]
<b>Numer of pregnancies (RFE=1)</b>		
2-3	0.81*	[0.686 - 0.954]
>=4	0.72**	[0.668 - 0.785]
<b>State of residence (REF= Other state)</b>		
Mexico City	0.91**	[0.881 - 0.946]
Year	1.11	[0.970 - 1.272]
** p<0.01, * p<0.05		





# Sensitivity analyses: Models

- With and without variables missing data
- Separate out estado de Mexico
- Municipality-level deprivation index
- Exclude facility with very low (2%) proportion of cases beyond 12 weeks
- Stratified by health facility

