European Journal of Obstetrics & Gynecology and Reproductive Biology 203 (2016) 142-146



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## European Journal of Obstetrics & Gynecology and Reproductive Biology





# The impact of a liberalisation law on legally induced abortion hospitalisations



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## INTRODUCTION

Legal abortion based purely in maternal option without fetal/maternal pathology was liberalised in Portugal in 2007

➤ Since then abortion rates ↑

Diário da República, 1.ª série — N.º 75 — 17 de Abril de 2007

### ASSEMBLEIA DA REPÚBLICA

Lei n.º 16/2007

de 17 de Abril

### Exclusão da ilicitude nos casos de interrupção voluntária da gravidez

A Assembleia da República decreta, nos termos da alínea c) do artigo 161.º da Constituição, o seguinte:

### Artigo 1.º

#### Alteração do Código Penal

O artigo 142.º do Código Penal, com a redacção que lhe foi introduzida pelo Decreto-Lei n.º 48/95, de 15 de Março, e pela Lei n.º 90/97, de 30 de Julho, passa a ter a seguinte redacção:

### «Artigo 142.º

...1

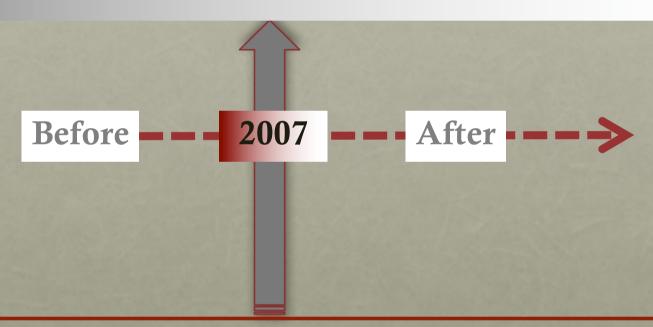
1 — Não é punível a interrupção da gravidez efectuada por médico, ou sob a sua direcção, em estabelecimento de saúde oficial ou oficialmente reconhecido e com o consentimento da mulher grávida, quando:

a)	Ĭ,																			· ·					
b)																									
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- c) Houver seguros motivos para prever que o nascituro virá a sofrer, de forma incurável, de grave doença ou malformação congénita, e for realizada nas primeiras 24 semanas de gravidez, excepcionando-se as situações de fetos inviáveis, caso em que a interrupção poderá ser praticada a todo o tempo;
- e) For realizada, por opção da mulher, nas primeiras 10 semanas de gravidez.

# OBJECTIVE

total legal induced abortion related hospitalisation trends



liberalisation of abortion by maternal request

## STUDY DESIGN

Inclusion criteria: hospitalisations of legal induced abortion (LIA)

(*ICD-9-CM* codes 635.x)

**Time period:** 2000 → 2014

Source: Portuguese databases:

- ACSS (Central Administration of the Health System) → all data public hospitalisations in mainland Portugal
- INE (National Statistics Institute) → total performed LIA in mainland Portugal
- DGS (General Direction of Health)  $\rightarrow$  LIA data in mainland Portugal

## Parameters analyzed:

- hospitalisations per abortion = N° LIA hospitalisations/N° LIA
- mean age
- No hospitalisations per age group
- complications
- admission type: elective versus emergent
- length of stay

### Statistics methods:

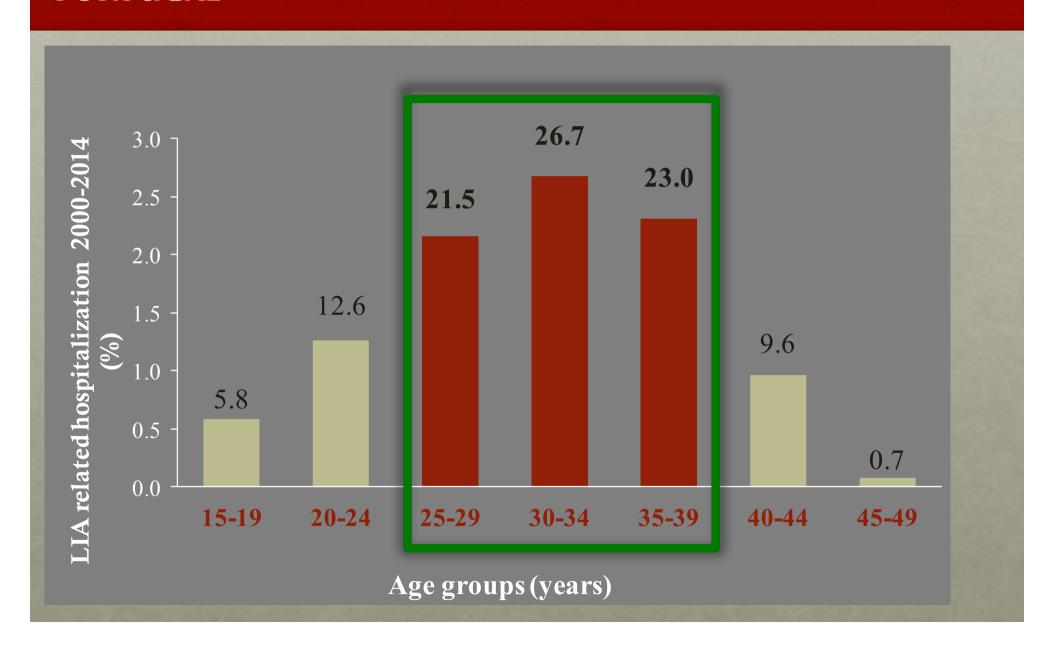
- ➤ Descriptive statistics: IBM SPSS Statistics 22<sup>TM</sup>
- ➤ *Mann-Withney* tests
- ➤ Independent sample t-tests
- > Chi-square tests
- ➤ Linear regressions models 95% CI

## **RESULTS:**

# FREQUENCY OF LEGALLY INDUCED ABORTIONS (LIA) AND LIA HOSPITALIZATIONS IN PORTUGAL



# **RESULTS:**LIA RELATED HOSPITALIZATION (%) *PER* EACH AGE GROUP IN PORTUGAL



# **RESULTS:**HOSPITALIZATIONS *PER* ABORTION IN PORTUGAL

Year	LIA (n)	LIA related hospitalizations (n)	Emergent Admission (%)	Withoutcompl ications (%)	Hospitalizations <i>per</i> abortion (Hospitalizations/LIA)	Hospitalization stay - Median length (days)
2000	575	618	83.5	87.2	1.07	2
2001	659	657	85.1	83.1	1.00	2
2002	811	680	76.9	86.6	0.84	2
2003	547	742	76.1	87.2	1.36	2
2004	695	809	76.0	86.2	1.16	2
2005	783	839	67.1	85.6	1.07	2
2006	1,195	902	65.6	89.6	0.75	2
2007	4,323	1,152	64.7	88.3	0.27	2
2008	12,919	1,423	60.2	83.9	0.11	2
2009	13,504	1,455	58.6	84.5	0.11	2
2010	13,780	1,603	59.2	88.0	0.12	1
2011	13,604	1,443	53.9	86.5	0.11	1
2012	13,149	1,419	54.2	87.0	0.11	1
2013	12,489	1,345	57.9	91.0	0.11	1
2014	11,512	1,259	56.7	90.9	0.11	1

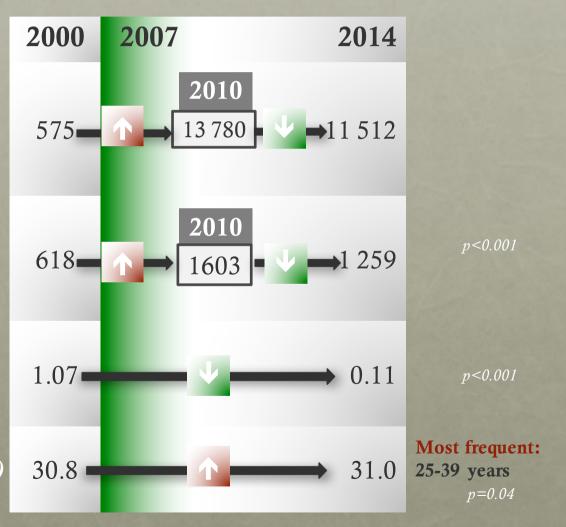
## RESULTS

LIA (n)

Hospitalisations

Nº hospitalisation/abortion

Mean age of hospitalisation (years)

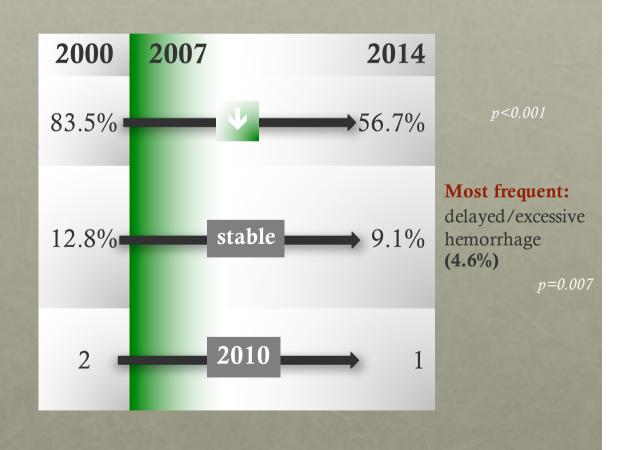


## RESULTS

Emergent admission

Complications

Median hospital stay (days)



## CONCLUSIONS

### Since the liberalisation:

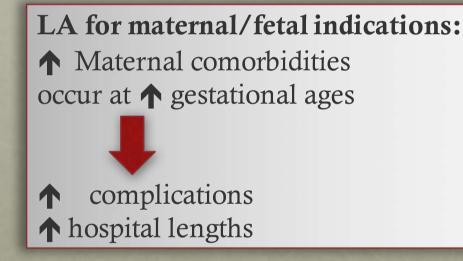
- ✓ LA **↑** 15x
- ✓ Hospitalisations not even doubled
- ✓ **Hospitalisations/abortion**  $\Psi$  → <u>major impact of LIA by</u> maternal request liberalisation on abortion trends nationwide.

Before the liberalisation:  $1 \text{ LA} \rightarrow 1$  hospitalisation

After the liberalisation: 10% of LA  $\rightarrow$  1 hospitalisation

## CONCLUSIONS

LA hospitalisations occur more within LA due to maternal/fetal pathology



LIA hospitalisations are more frequent at 25-39 years, an older age group, when compared to the one registered in all cases of LA, reflecting the differences between those hospitalised and those who are not.

## CONCLUSIONS

### Limitations:

- Possible <u>under registration of LIAs</u> (namely by pure maternal option) by INE;
- An <u>overlapping of cases</u> recorded in this database may be present as the same LIA, in some extreme conditions, may lead to more than one registered episode (hospitalization);
- Our database did not differentiate neither LIAs performed by maternal request versus for maternal/fetal indications.

## **Strenghs:**

First study to access data about LIA-related hospitalizations in Portugal before and after the passing of the law.

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