

# TOLAC AND VBAC SUCCESS IN WOMEN ADMITTED AT A COMMUNITY HOSPITAL IN SAN JUAN PUERTO RICO.

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## Introduction

Over the years, the number of patients requesting a planned trial of labor after cesarean section (TOLAC) has risen as a consequence of both patient and provider education, respect for autonomy, as well as other clinical considerations. The outcomes of TOLAC can range from a successful vaginal birth after cesarean section (VBAC) to an unanticipated intrapartum cesarean section. In the United States, VBAC rate rose from 69.8% to 74.7% between 2010 and 2020. We aim to compare the actual VBAC rate among women admitted to a community hospital in San Juan, Puerto Rico, from 2010 through 2019.

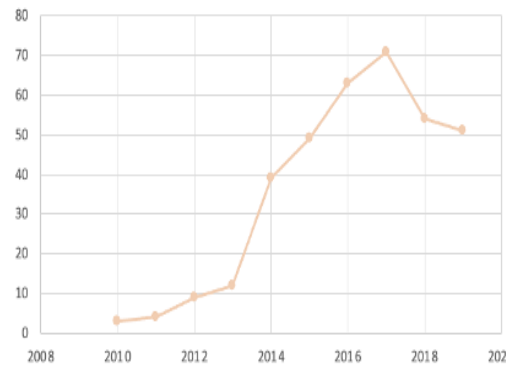
## AIM

- We aim to determine the actual VBAC rate among women admitted to a community hospital in San Juan, Puerto Rico, between 2010 and 2019.
- Compare VBAC success rates between 2010 and 2019.

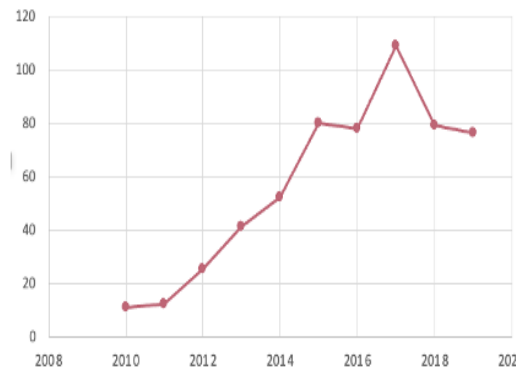
## Methodology

A retrospective assessment of patient charts identified by the corresponding CPT code for VBAC during admission to labor and delivery rooms was carried out. We included women of all ages subdivided in the following groups: 21-24 years old, 25-29, 30-34 or ≥35 years old. Descriptive statistics were used for frequency and percentage analysis.

Failed TOLAC by Year



Successful VBAC's by Year



## Results

- A total of 918 medical records from patients who requested TOLAC were evaluated.
- From the 14 patients who attempted TOLAC in 2010, 11 (78%) had a successful VBAC, yielding a VBAC rate of 4.2%.
- Seventy-six (60%) out of the 127 patients who attempted a TOLAC in 2019 succeeded, resulting in a VBAC rate of 24.4% for that year.

Failed VBAC's y VBAC's Indicator by Year

Birth Year	Failed TOLAC		VBAC's		Total
	#	%	#	%	
2010	3	1.1%	11	4.2%	14
2011	4	1.4%	12	4.1%	16
2012	9	3.2%	25	8.9%	34
2013	12	3.9%	41	13.4%	53
2014	39	12.9%	52	17.2%	91
2015	49	15.8%	80	25.7%	129
2016	63	20.5%	78	25.3%	141
2017	71	18.8%	109	28.9%	180
2018	54	19.2%	79	28.1%	133
2019	51	16.3%	76	24.4%	127

## Conclusion

- At our institution, there has been an increase in VBAC rates.
- VBAC rates differ between institutions and may be influenced by parameters like BMI, age, and prior obstetric history in addition to antepartum, intrapartum, among other factors.
- In-depth investigation is required to pinpoint potential causes of this rising VBAC rate.

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