



Hospital Birth Delivery Method Data Overview: C-Sections, Primary C-sections and Vaginal Birth After C-Section

Thirty out of the 32 birthing hospitals in the state allow for a trial of labor after c-section (TOLAC) and vaginal birth after c-section (VBAC). Hospitals that allow for a trial of labor and vaginal birth after c-section require 24/7 coverage by an anesthesiologist, obstetrician and pediatrician. Some hospitals also require a second physician, surgical assistant or maternal fetal medicine specialist. This is to ensure that if there is an issue such as a uterine rupture, the patient can be transferred immediately to an operating room and have immediate access to blood products and other necessary interventions to save the life of the mother and baby.

Additionally, there are patient criteria considered before recommending a TOLAC. Although the exact details vary by hospital, care provider, and patient, common criteria for why a patient might not be recommended for a TOLAC in the hospital include:

- More than two previous C-sections
- Patients who had a C-section less than 18 months prior
- Patients with a prior T-shaped incision or other trans-fundal uterine surgery
- Patients with a contracted pelvis
- Medical or obstetric complications that preclude vaginal delivery
- Patients with a history of previous uterine rupture
- Patients with a history of myomectomy

The attached spreadsheet shows three data points for birthing hospitals¹:

- How often babies in the hospital are delivered by c-section.
 - A lower number is better.
 - Figures presented are number of c-sections per 100 cases.
- How often babies in the hospitals are delivered vaginally where the mother had a previous c-section (VBAC).
 - A higher number is better.
 - This measure excludes deliveries where a complication occurred so that an operation had to be performed, etc.
 - Figures presented are number of VBACs per 100 cases.
- How often babies in the hospital are delivered by c-section when this is the mother's first birth (primary c-section rate).
 - A lower number is better.
 - Figures presented are number of c-sections by 100 cases.

Nationally, rates of vaginal birth after c-section increased from 12.4% in 2016 to 13.3% in 2018.² The Health People 2020 goal is to increase VBAC to 18.3%.³ Many of the birthing hospitals have already met or exceeded this goal.

¹ Maryland Health Care Commission. "[Maryland Quality Reporting: Hospitals: Mother and Baby](#)".

² US Department of Health and Human Services. (March, 2020). "[Recent Trends in Vaginal Birth After Cesarean Delivery: United States, 2016-2018](#)".

³ Ibid.

Birthing Hospital	Percentage of births (deliveries) that are C-sections . Figures presented are events per 100 cases. *	How often babies in the hospital are delivered vaginally when the mother previously delivered by C-section (no complications) Figures presented are events per 100 cases . **	How often babies in the hospital are delivered using C-section when this is the mother's first birth Figures presents are events per 100 cases . ***
Adventist HealthCare Shady Grove Medical Center	29.5421	13.7462	15.9378
Adventist HealthCare White Oak Medical Center	22.786	20.8122	10.372
Anne Arundel Medical Center	26.2586	17.3812	13.8634
CalvertHealth Medical Center	37.1429	10.101	26.4113
Carroll Hospital	27.4673	20.7547	15.3959
Frederick Health Hospital	25.5635	24.1758	14.5845
Garrett Regional Medical Center	19.6203	8.3333	6.7164
Greater Baltimore Medical Center	35.2877	10.1744	22.5186
Holy Cross Germantown Hospital	25.3929	20.3488	16.3934
Holy Cross Hospital	29.3192	18.097	17.0194
Howard County General Hospital	30.3564	13.0542	18.0503
Johns Hopkins Bayview Medical Center	24.3318	18.9944	13.1347
Johns Hopkins Hospital	33.7641	16.129	22.4934
MedStar Franklin Square Medical Center	37.8174	12.3656	25.355
MedStar Harbor Hospital	39.9813	11.5556	27.5208
MedStar Montgomery Medical Center	24.9509	22.1239	9.8485
MedStar Southern Maryland Hospital Center	37.0701	8.8235	22.1138
MedStar St. Mary's Hospital	23.7762	21.8182	13.0383
Mercy Medical Center	35.8047	18.4332	24.6907
Meritus Medical Center	29.8347	10.5	18.0198
Saint Agnes Hospital	28.3761	12.2222	17.5758

Source: Maryland Health Care Commission. "Maryland Quality Reporting: Hospitals: Mother and Baby,"
<https://healthcarequality.mhcc.maryland.gov/Hospital/List?tableType=maternityCare&sCol=vagDelAfterCSectionPct&sDir=DESC>

Birthing Hospital	Percentage of births (deliveries) that are C-sections . <i>Figures presented are events per 100 cases. *</i>	How often babies in the hospital are delivered vaginally when the mother previously delivered by C-section (no complications) <i>Figures presented are events per 100 cases . **</i>	How often babies in the hospital are delivered using C-section when this is the mother's first birth <i>Figures presents are events per 100 cases . ***</i>
Sinai Hospital	25.0165	34.3874	16.6932
TidalHealth Peninsula Regional	29.9539	15.3125	15.3461
Union Hospital	28.0374	0	13.806
University of Maryland Baltimore Washington Medical Center	30.2009	19.685	19.2982
University of Maryland Capital Region Medical Center	29.899	14.9758	14.8148
University of Maryland Charles Regional Medical Center	34.4444	13.9535	22.5275
University of Maryland Medical Center	33.6611	21.3559	20.6426
University of Maryland Shore Medical Center at Easton	25.0291	0	11.7808
University of Maryland St. Joseph Medical Center	24.6622	26.9912	16.1085
University of Maryland Upper Chesapeake Medical Center	26.7432	20.5714	17.2234
UPMC Western Maryland	28.9417	17.0455	16.2667
Notes:			
* How often babies in the hospital are delivered using cesarean section, which involves an operation, instead of by vaginal delivery. Lower rates are better.	Clinical Title: Cesarean Delivery Rate. Measure Code IQI 21 Data Source: AHRQ Quality Indicator		

Birthing Hospital	Percentage of births (deliveries) that are C-sections . <i>Figures presented are events per 100 cases. *</i>	How often babies in the hospital are delivered vaginally when the mother previously delivered by C-section (no complications) <i>Figures presented are events per 100 cases . **</i>	How often babies in the hospital are delivered using C-section when this is the mother's first birth <i>Figures presents are events per 100 cases . ***</i>
<p>**How often babies in the hospital are delivered vaginally where the mother has previously delivered by cesarean section (VBAC). This measure excludes deliveries where a complication occurred during childbirth, such as preterm or early delivery.</p>	<p>Clinical Title: Vaginal Birth After Cesarean (VBAC) Delivery Rate Uncomplicated Measure Code: IQI 22 Data Source: AHRQ Quality Indicator</p>		
<p>***How often babies in the hospital are delivered using cesarean section, which involves an operation, instead of by vaginal delivery when this is the mother's first birth. Lower rates are better.</p>	<p>Clinical Title: Primary Cesarean Delivery Rate Measure Code: IQI 33 Data Source: AHRQ Quality Indicator</p>		

Source: Maryland Health Care Commission. "Maryland Quality Reporting: Hospitals: Mother and Baby,"

<https://healthcarequality.mhcc.maryland.gov/Hospital/List?tableType=maternityCare&sCol=vagDelAfterCSectionPct&sDir=DESC>



Maternity Care Guide

	Delivery Volume* (vaginal and C-section)	Offers Facility Tours	Breastfeeding Support	Offers Birthing Classes	Baby Friendly Designation	Couplet Care	NICU
<u>Adventist HealthCare Shady Grove Medical Center</u>	3,818	✓	✓	✓		✓	✓
<u>Adventist HealthCare White Oak Medical Center</u>	1,213	✓	✓	✓		✓	
<u>Anne Arundel Medical Center</u>	5,285	✓	✓	✓		✓	✓
<u>Calvert Memorial Hospital</u>	633	✓	✓	✓	✓	✓	
<u>Carroll Hospital Center</u>	1,007	✓	✓	✓		✓	
<u>Frederick Health Hospital</u>	2,441	✓	✓	✓		✓	✓
<u>Garrett Regional Medical Center</u>	232					✓	
<u>Greater Baltimore Medical Center</u>	4,156	✓	✓	✓		✓	✓
<u>Holy Cross Germantown Hospital</u>	1,745	✓	✓	✓		✓	
<u>Holy Cross Hospital</u>	8,552	✓	✓	✓		✓	✓
<u>Howard County General Hospital</u>	2,481	✓	✓	✓	✓	✓	✓
<u>Johns Hopkins Bayview Medical Center</u>	1,181	✓	✓	✓		✓	✓
<u>Johns Hopkins Hospital</u>	2,249	✓	✓	✓	✓	✓	✓
<u>MedStar Franklin Square Medical Center</u>	2,109	✓	✓	✓	✓	✓	✓
<u>MedStar Harbor Hospital</u>	1,218		✓	✓	✓		
<u>MedStar Montgomery Medical Center</u>	563	✓	✓	✓		✓	
<u>MedStar Southern Maryland Hospital Center</u>	902	✓	✓	✓		✓	
<u>MedStar St. Mary's</u>	1,072	✓	✓	✓	✓	✓	
<u>Mercy Medical Center</u>	2,472	✓	✓	✓		✓	✓
<u>Meritus Medical Center</u>	1,686	✓	✓	✓		✓	
<u>Sinai Hospital</u>	1,687	✓	✓	✓		✓	✓
<u>St. Agnes Hospital</u>	1,441	✓	✓	✓	✓	✓	✓
<u>TidalHealth Peninsula Regional</u>	1,829	✓	✓	✓		✓	✓
<u>UPMC Western Maryland</u>	771		✓	✓			
<u>Union Hospital</u>	393		✓	✓		✓	
<u>UMD Baltimore Washington Medical Center</u>	1,520	✓	✓	✓		✓	
<u>UMD Charles Regional Medical Center</u>	514	✓					
<u>University of Maryland Medical Center</u>	1,650	✓	✓	✓	✓	✓	✓
<u>UMD Capital Region Medical Center</u>	1,161		✓	✓			✓
<u>UMD Shore Health Medical Center at Easton</u>	973	✓	✓	✓		✓	
<u>UMD St. Joseph Medical Center</u>	1,693	✓	✓	✓		✓	✓
<u>UMD Upper Chesapeake Medical Center</u>	1,286	✓	✓	✓	✓	✓	

* Note: Delivery volume is based on calendar year 2021 data (January 2021- December 2021)

