

**Inpatient Quality Indicator 22 (IQI 22)**  
**Vaginal Birth After Cesarean (VBAC) Delivery Rate,**  
**Uncomplicated**  
**July 2020**  
**Hospital-Level Indicator**  
**Type of Score: Rate**

**Prepared by:**

Agency for Healthcare Research and Quality

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**DESCRIPTION**

Vaginal births per 1,000 deliveries by patients with previous Cesarean deliveries. Excludes deliveries with complications (abnormal presentation, preterm delivery, fetal death, multiple gestation diagnoses, or breech procedure).

*[NOTE: The software provides the rate per previous Cesarean delivery. However, common practice reports the measure as per 1,000 previous Cesarean deliveries. The user must multiply the rate obtained from the software by 1,000 to report the number of vaginal births per 1,000 deliveries by patients with previous Cesarean deliveries.]*

**NUMERATOR**

Number of vaginal deliveries among cases meeting the inclusion and exclusion rules for the denominator. Vaginal deliveries are identified by any-listed ICD-10-PCS procedure code for vaginal delivery (**VAGDELP\***).

**DENOMINATOR**

Discharges with an ICD-10-CM diagnosis code for birth delivery outcome (**DELOCMD\***) with any-listed ICD-10-CM diagnosis codes for previous Cesarean delivery (**PRVBACD\***).

## DENOMINATOR EXCLUSIONS

Exclude cases:

- with any-listed ICD-10-CM diagnosis codes for abnormal presentation, fetal death, or multiple gestation (***Appendix A: PRCSECD***)
- with an ungroupable DRG (DRG=999)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

[\*Appendix A – Abnormal presentation, fetal death, and multiple gestation diagnosis codes\*](#)

\* See below for code list

***Vaginal delivery procedure codes: (VAGDELP)***

10D07Z3	Extraction of products of conception, low forceps, via natural or artificial opening	10D07Z7	Extraction of products of conception, internal version, via natural or artificial opening
10D07Z4	Extraction of products of conception, mid forceps, via natural or artificial opening	10D07Z8	Extraction of products of conception, other, via natural or artificial opening
10D07Z5	Extraction of products of conception, high forceps, via natural or artificial opening	10E0XZZ	Delivery of products of conception, external approach
10D07Z6	Extraction of products of conception, vacuum, via natural or artificial opening		

***Outcome of delivery diagnosis codes: (DELOCMD)***

Z370	Single live birth	Z3759	Other multiple births, all liveborn
Z371	Single stillbirth	Z3760	Multiple births, unspecified, some liveborn
Z372	Twins, both liveborn	Z3761	Triplets, some liveborn
Z373	Twins, one liveborn and one stillborn	Z3762	Quadruplets, some liveborn
Z374	Twins, both stillborn	Z3763	Quintuplets, some liveborn
Z3750	Multiple births, unspecified, all liveborn	Z3764	Sextuplets, some liveborn
Z3751	Triplets, all liveborn	Z3769	Other multiple births, some liveborn
Z3752	Quadruplets, all liveborn	Z377	Other multiple births, all stillborn
Z3753	Quintuplets, all liveborn	Z379	Outcome of delivery, unspecified
Z3754	Sextuplets, all liveborn		

***Previous Cesarean delivery diagnosis codes: (PRVBACD)***

O3421	Maternal care for scar from previous cesarean delivery	O34219	Maternal care for unspecified type scar from previous cesarean delivery
O34211	Maternal care for low transverse scar from previous cesarean delivery	O6641	Failed attempted vaginal birth after previous cesarean delivery
O34212	Maternal care for vertical scar from previous cesarean delivery		