

Supplemental Digital Content 1

Cohort definition

I. Patients hospitalized for delivery, as defined by the *International Classification of Diseases, 9th revision, Clinical Modification* (ICD-9 CM) diagnosis or procedure codes listed below, restricted to women and age 12 to 55.

	Codes
Inclusion criteria	
ICD-9 CM diagnosis codes	
Outcome of delivery	V27.x
Normal delivery	650.x
ICD-9 CM procedure codes	
Forceps, vacuum, and breech extraction	72.x

Internal and combined version and extraction	73.22
Other manually assisted deliveries	73.59
Episiotomy	73.6
Cesarean delivery	74.0-74.2, 74.4, 74.9

Cohort exclusion criteria:

Abortion, ectopic pregnancy, hydatiform mole, or other abnormal products of conception, defined by ICD codes recorded in any position:

i. 630.x-633.x

ii. 634.x-639.x, ICD 9 procedure codes 69.01, 69.51, 75.0