ADVERSE OUTCOME INDEX (AOI) V4.0.1

Definitions & ICD-10 Code Tables
Adverse Outcome Index (AOI) Algorithm (V4.0.1)
Definitions and ICD-10 Code Tables

The ICD-10 code tables used to determine each indicator count for the Adverse Outcome Index: AOI Code Tables (effective 1/1/2021)

Event Populations

Deliveries: Cases assigned to any of the following MS DRGs: 768, 796-798, 805-807, 783-788, or ≥981 with an ICD-10-PCS delivery code, and also assigned to any of the following APR-DRGs: 539-542, 560 (Code Table M.1.1)

Inborns: All neonates born in your hospital (Code Table B.1.1)

Event Definitions

In-hospital Maternal Death (Case Weight: 750)
Deliveries and discharge disposition = died

Exclusions: None

In-hospital Neonatal Death ≥ 2500 grams and ≥37 weeks Gestation² (Case Weight: 400)
Inclusions: Inborns with birthweight³ ≥ 2500 grams and ≥ 37 weeks gestation² with discharge disposition of died within 28 days of birth

Exclusions: Cases with congenital anomalies and other disorders (Code Table B.2.1)

Uterine Rupture During Labor (Case Weight: 100)
Inclusions: Deliveries with diagnosis code O71.1 (rupture of uterus during labor) in the primary, first or second diagnosis code position only

Exclusions: None
Maternal Intensive Care (Case Weight: 65)

Inclusions: Deliveries with AIM³ Severe Maternal Morbidity (SMM) diagnosis and/or procedure codes (Code Table M.3.1) OR Deliveries with the NPIC Blood Transfusion Indicator = 1 on submitted file; AND
- with an ICU day or charge OR
- discharged to another hospital (UB04 disp=02)

Exclusions: Cases with placental disorders (Code Table M.3.1) or any AIM SMM diagnosis code(s) with Present on Admission (POA) indicator = Y

Birth Trauma (Case Weight: 60)

Inclusions: Inborns with birthweight¹ ≥ 2500 grams and ≥ 37 weeks gestation² with TJC PC-06 severe birth trauma diagnosis codes (Code Table B.3.1)

Exclusions: Cases with osteogenesis imperfecta (Code Table B.3.1)

Unanticipated Operative Procedure (Case Weight: 40)

Inclusions: Deliveries with unanticipated operative procedure codes (Code Table M.4.1) in the first or second procedure field

Exclusions: Cases with placental disorders or cervical cancers; Also excludes hysterectomy cases with an ICU day or charge or discharged to another hospital (UB04 disp=02) (Code Table M.4.1)

Admission to NICU of Neonate Birthweight¹ ≥ 2500 grams and ≥ 37 weeks Gestational Age² (GA) for > 1 day (Case Weight: 35)

Inclusions: Inborns with birthweight¹ ≥ 2500 grams and ≥ 37 weeks gestation²; AND
- NICU admission within one day of birth for greater than one day; OR
- transferred to another hospital (UB04 disp=02 or =05) within one day of birth

Exclusions: Cases with congenital anomalies and other disorders (Code Table B.2.1) or neonatal drug/alcohol exposure (Code Table B.5.1)

APGAR 5 < 7 (Case Weight: 25)

Inclusions: Inborns with birthweight¹ ≥ 2500 grams and ≥ 37 weeks completed gestation²; APGAR 5 < 7

Exclusions: Cases with congenital anomalies and other disorders (Code Table B.2.1) or neonatal drug/alcohol exposure (Code Table B.5.1)
Maternal Blood Transfusion {Case Weight: 20}

**Inclusions:** Deliveries with AIM Severe Maternal Morbidity (SMM) blood transfusion procedure codes (Code Table M.5.1); OR
- additional select code for transfusion of non-blood products (Code Table M.5.1); OR
- NPIC Blood Transfusion Indicator = 1 on submitted file

**Exclusions:** Delivery cases that are included in the “Maternal Intensive Care” event (see definition above).

4th Degree Perineal Laceration {Case Weight: 5}

**Inclusions:** Deliveries with fourth degree perineal laceration diagnosis code (Code Table M.6.1)

**Exclusions:** Cases with shoulder dystocia (Code Table M.6.1)

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1 Birthweight is determined by numeric value or ICD-10-CM coding
2 Gestational Age is determined by numeric value or ICD-10-CM coding. Cases missing gestational age information default to ≥ 37 weeks if birthweight is ≥ 2000 grams.
3 Alliance for Innovation on Maternal Health (AIM)
4 Present on Admission (POA) indicator Y = diagnosis was present at time of inpatient admission
5 The Joint Commission PC-06 measure: Unexpected Complications in Term Newborns