



**AHRQ Quality Indicators™ (AHRQ QI™)
ICD-9-CM and ICD-10-CM/PCS
Specification Enhanced Version 5.0**

**Patient Safety Indicators #26 (PSI #26)
Transfusion Reaction Rate**

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Area-Level Indicator
Type of Score: Rate**

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PSI #26 Transfusion Reaction Rate

DESCRIPTION

Transfusion reactions per 100,000 population, ages 18 years and older.

[NOTE: The software provides the rate per population. However, common practice reports the measure as per 100,000 population. The user must multiply the rate obtained from the software by 100,000 to report events per 100,000 population.]

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NUMERATOR

Surgical and medical discharges, for patients ages 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium), with any-listed ICD-9-CM or ICD-10-CM diagnosis codes for transfusion reaction. Surgical and medical discharges are defined by specific DRG or MS-DRG codes.

[Appendix B - Surgical DRGs](#)

[Appendix C - Surgical MS-DRGs](#)

[Appendix D - Medical DRGs](#)

[Appendix E - Medical MS-DRGs](#)

Transfusion reaction diagnosis codes: (TRANFID)

ICD-9-CM	Description	ICD-10-CM	Description
9996	ABO INCOMPATIBILITY REACTION	T8030XA	ABO incompatibility reaction due to transfusion of blood or blood products, unspecified, initial encounter
99960	ABO INCOMPAT REACT NOS	T80310A	ABO incompatibility with acute hemolytic transfusion reaction, initial encounter
99961	ABO INCOMP/HTR NEC	T80311A	ABO incompatibility with delayed hemolytic transfusion reaction, initial encounter
99962	ABO INCOMPAT/ACUTE HTR	T80319A	ABO incompatibility with hemolytic transfusion reaction, unspecified, initial encounter
99963	ABO INCOMPAT/DELAY HTR	T8039XA	Other ABO incompatibility reaction due to transfusion of blood or blood products, initial encounter
99969	ABO INCOMPAT REACTN NEC	T8040XA	Rh incompatibility reaction due to transfusion of blood or blood products, unspecified, initial encounter
9997	RH INCOMPATIBILITY REACTION	T80410A	Rh incompatibility with acute hemolytic transfusion reaction, initial encounter
99970	RH INCOMPAT REACTION NOS	T80411A	Rh incompatibility with delayed hemolytic transfusion reaction, initial encounter

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99971	RH INCOMP/HTR NEC	T80419A	Rh incompatibility with hemolytic transfusion reaction, unspecified, initial encounter
99972	RH INCOMPAT/ACUTE HTR	T8049XA	Other Rh incompatibility reaction due to transfusion of blood or blood products, initial encounter
99973	RH INCOMPAT/DELAY HTR	Y650	Mismatched blood in transfusion
99974	RH INCOMPAT REACTION NEC		

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NUMERATOR EXCLUSIONS

Exclude cases:

- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), principal diagnosis (DX1=missing), or county (PSTCO=missing)

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DENOMINATOR

Population ages 18 years and older in metropolitan area† or county. Discharges in the numerator are assigned to the denominator based on the metropolitan area or county of the patient residence, not the metropolitan area or county of the hospital where the discharge occurred.

† The term “metropolitan area” (MA) was adopted by the U.S. Census in 1990 and referred collectively to metropolitan statistical areas (MSAs), consolidated metropolitan statistical areas (CMSAs) and primary metropolitan statistical areas (PMSAs). In addition, “area” could refer to either 1) FIPS county, 2) modified FIPS county, 3) 1999 OMB Metropolitan Statistical Area or 4) 2003 OMB Metropolitan Statistical Area. Micropolitan Statistical Areas are not used in the QI software.

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DENOMINATOR EXCLUSIONS
<i>Not Applicable</i>