

Measure 2459: In-hospital Risk Adjusted Rate of Bleeding Events for patients undergoing PCI (American College of Cardiology)	
Description	Risk adjusted rate of intra and post procedure bleeding for all patients age 18 and over undergoing PCI .
Numerator	<p>Patients 18 years of age and older with a post-PCI bleeding event as defined below: Post-PCI bleeding defined as any ONE of the following:</p> <ol style="list-style-type: none"> 1. Bleeding event w/in 72 hours ; OR 2. Hemorrhagic stroke; OR 3. Tamponade ; OR 4. Post-PCI transfusion for patients with a pre-procedure hgb >8 g/dL and pre-procedure hgb not missing; OR 5. Absolute hgb decrease from pre-PCI to post-PCI of ≥ 3 g/dl AND pre-procedure hgb ≤ 16 g/dL AND pre-procedure hgb not missing.
Numerator Details	<p>Supporting definitions: PCI: A percutaneous coronary intervention (PCI) is the placement of an angioplasty guide wire, balloon, or other device (e.g. stent, atherectomy, brachytherapy, or thrombectomy catheter) into a native coronary artery or coronary bypass graft for the purpose of mechanical coronary revascularization. Source: NCDR</p> <p>Age: patients must be 18 years of age to be included in the registry.</p>
Denominator	Patients 18 years of age and older with a PCI procedure performed during admission
Denominator Details	<p>Coding instructions : indicate if the patient had a percutaneous coronary intervention (PCI) Selections: yes/no</p> <p>Supporting definitions: PCI: A percutaneous coronary intervention (PCI) is the placement of an angioplasty guide wire, balloon, or other device (e.g. stent, atherectomy, brachytherapy, or thrombectomy catheter) into a native coronary artery or coronary bypass graft for the purpose of mechanical coronary revascularization. Source: NCDR</p> <p>Age: patients must be 18 years of age to be included in the registry.</p>
Exclusions	<ol style="list-style-type: none"> 1. NCDR Registry patients who did not have a PCI (Patient admissions with a diagnostic cath only during that admission); 2. Patients who died on the same day of the procedure 3. Patients who had CABG during the admission 4. Patients with pre procedure hemoglobin < 8 g/dL (severely anemic)
Exclusion details	<p>All data submissions must pass the data quality and completeness reports to be included. Note: If one or two variables are missing, the value is imputed for certain characteristics . In our data quality program, all key variables in the risk model have a high "inclusion" criteria. This means that, when a hospital submits data to us , they need to have a high level of completeness (around 95-99%) for those variables. If they are not able to meet</p>

	the criteria in our data quality program, they do not receive risk adjusted mortality for the records they submitted for that quarter.
Risk Adjustment	Statistical risk model
Stratification	N/A
Numerator Time window	1 year
Type	Composite
Type of Score	Rate/proportion
Data Source	Electronic Clinical Data : Registry
Level	Facility
Setting	Hospital/Acute Care Facility

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