

Appendix A

Details of Data Elements in the Reviewed Registries

Data Elements	Registry		
	NCDR	MIG	EHS-PCI (CARDS)
Patient demographics	✓	✓	✓
Last name	✓	✓	✓
First name	✓	✓	✓
Middle name	✓	✓	✓
Patient identification number	✓	✓	✓
Date of birth	✓	✓	✓
Sex	✓	✓	✓
Race	✓	-	-
Episode of care	✓	✓	✓
Date of admission/arrival	✓	-	✓
Time of admission/arrival	✓	✓	✓
Postcode	✓	✓	-
Admit source	✓	✓	-
Insurance status	✓	✓	-
Insurance number	✓	✓	-
Medical history and risk factors	✓	✓	✓
Smoking status	✓	✓	✓
History of hypertension	✓	✓	✓
History of dyslipidemia	✓	✓	-
History of hypercholesterolemia	-	-	✓
Family history of coronary artery disease	✓	✓	-
History of previous myocardial infarction	✓	✓	✓
History of congestive heart failure	-	✓	✓
History of valvular heart disease	-	-	✓
Previous valvular surgery	✓	✓	-
Date of most recent valvular surgery	-	✓	-
Previous PCI	✓	✓	✓
Date of most recent PCI	✓	✓	-
Previous coronary artery bypass grafting	✓	✓	✓

Date of most recent coronary artery bypass grafting	✓	✓	-
Height	✓	✓	✓
Weight	✓	✓	✓
Dialysis requiring	✓	✓	-
History of chronic renal failure	-	-	✓
Cerebrovascular disease	✓	✓	-
History of stroke	-	-	✓
History of peripheral arterial disease	✓	✓	✓
Chronic lung disease	✓	✓	-
Type of chronic lung disease	-	✓	-
Diabetes mellitus	✓	✓	✓
Type of diabetes therapy	✓	✓	✓
Functioning renal transplant	-	✓	-
Obstructive sleep apnea	-	✓	-
Clinical evaluation leading to the procedure	✓	✓	✓
Coronary artery disease presentation	✓	✓	✓
Heart failure within two weeks, New York Heart Association (NYHA) class	✓	✓	-
Angina classification within 2 weeks	-	-	✓
Cardiomyopathy or LV systolic dysfunction	✓	✓	✓
Cardiogenic Shock within 24 hours	✓	✓	✓
Standard exercise stress test	✓	-	-
Stress echocardiogram	✓	-	-
Stress testing w/SPECT Myocardial Perfusion Imaging (MPI)	✓	-	-
Stress testing w/Cardiac Magnetic Resonance (CMR)	✓	-	-
Procedure information			
Procedure date	✓	✓	✓
Procedure time	✓	-	-
Diagnostic catheterization	✓	✓	✓
CathPCI for treatment	✓	✓	✓
Fluoroscope time	✓	-	-
Fluoroscope dose	✓	-	-
Contrast	✓	✓	-
Mechanical ventricular support			
Intra-aortic balloon pump	✓	✓	✓
Other mechanical ventricular support	✓	-	-
Drug-eluting stent	-	✓	✓

Closed-cell stent	-	✓	✓
Open-cell stent	-	✓	✓
Rotational atherectomy	-	✓	✓
Arterial access	✓	✓	✓
Arterial access site	✓	✓	✓
Closure method	✓	✓	✓
Information of catheterization diagnosis	✓	✓	✓
Operator's name and ID	✓	-	-
Left heart catheterization	✓	✓	✓
Cardiac transplant evaluation	✓	✓	✓
Catheterization type	-	✓	-
Prescription after procedure	✓	✓	✓
Coronary arterial anatomy	✓	✓	✓
Artery stenosis in left main	✓	✓	✓
Artery stenosis in prox Left Anterior Descending (LAD)	✓	✓	✓
Artery stenosis in mid/distal LAD, diagonal branches	✓	✓	✓
Artery stenosis in Circumflex artery segment (Circ), Obtuse Marginal(OM), Left Posterolateral Descending Artery (LPDA), Left Posterolateral (LPL) branches	✓	✓	✓
Artery stenosis in Right Coronary Artery (RCA), Right Posterior Descending Artery (RPDA), Right Posterolateral(RPL), Acute Marginal (AM) branches	✓	✓	✓
Artery stenosis in ramus	✓	✓	✓
Information of PCI	✓	✓	✓
Pre-CathPCI left ventricular ejection fraction	✓	✓	✓
CathPCI indication	✓	✓	✓
Subsequent electrocardiogram with STEMI date/time	✓	✓	✓
Reason for delay in CathPCI	✓	-	-
Procedure medication	✓	✓	✓
Medication fondaparinux	✓	✓	✓
Medication low molecular weight heparin	✓	✓	✓
Medication unfractionated heparin	✓	✓	✓
Medication aspirin	✓	✓	✓
Medication bivalirudin	✓	✓	✓
Medication direct thrombin inhibitor	✓	✓	✓
Medication GP IIb/IIIa	✓	-	-
Medication clopidogrel	✓	✓	✓

Medication prasugrel	✓	✓	✓
Medication ticagrelor	✓	–	–
Laboratory studies	✓	✓	✓
CK-MB pre/post-procedure	✓	✓	✓
Troponin I pre/post-procedure	✓	✓	✓
Troponin T pre/post-procedure	✓	✓	✓
Creatinine pre/post-procedure	✓	✓	✓
Hemoglobin pre/post-procedure	✓	✓	✓
Outcomes	✓	✓	✓
Myocardial infarction	✓	✓	✓
Cardiogenic shock	✓	✓	✓
Heart failure	✓	✓	✓
CVA/stroke	✓	✓	✓
Tamponade	✓	✓	✓
New requirement for dialysis	✓	✓	✓
Other vascular complications requiring Rx	✓	✓	✓
RBC/whole blood transfusion	✓	✓	✓
Bleeding event within 72 hours	✓	✓	✓
Size of hematoma	✓	✓	✓
Discharge	✓	✓	✓
Coronary artery bypass graft	✓	✓	✓
Post-procedure left ventricular ejection fraction	✓	✓	✓
Discharge date	✓	✓	✓
Discharge status	✓	✓	✓
Hospital status	✓	✓	✓
Discharge medication	✓	✓	✓
Medication angiotensin converting enzyme inhibitor	✓	✓	✓
Medication angiotensin receptor blocker	✓	✓	✓
Medication aspirin	✓	✓	✓
Medication beta blocker	✓	✓	✓
Medication lipid-lowering agents, statin	✓	✓	✓
Medication lipid-lowering agents, non-statin	✓	✓	✓
Medication clopidogrel (P2Y12)	✓	✓	✓

Abbreviations: CathPCI, catheterization and percutaneous coronary intervention; National Cardiovascular Data Registry (NCDR); EHS-PCI (CARDS), Euro Heart Survey of PCI with Cardiology Audit and Registration Data Standards; MIG, Melbourne Interventional Group; PCI, percutaneous coronary intervention.