



PCI Definitions

PCI Workshop | September 3, 2024

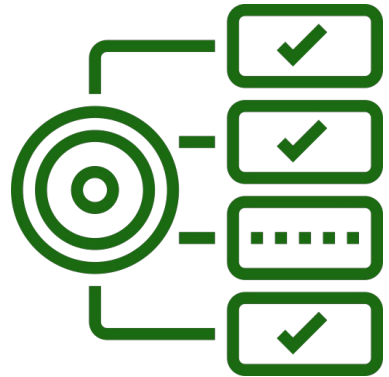
Lisa Crockett, VP Strategy and Planning, Providence

Matt Moe, Director Strategy and Planning, Providence

Jun Vic Obaob, Manager Clinical Programs, Swedish Heart & Vascular Institute

Meeting Agenda

1. Guiding principles for PCI definition and data sources
2. Current state of PCI data source (excludes COAP)
3. PCI definition (inpatient) – current and proposed state
4. PCI definition (outpatient) – current state
 - PCI annual outpatient survey
 - DRGs and crosswalk to ICD10 codes
5. Recommendation & discussion



PCI Definition and Data Sources | *Guiding Principles*

PCI Definition:

- Up-to-date list of current codes
- Aligned with current standards and industry accepted definitions
- Comprehensive. Accurately & consistently identifies all PCI volumes
- Can be applied across all care settings (inpatient & outpatient)
- Replicable. Ability to be utilized to pull consistent data results

PCI data sources:

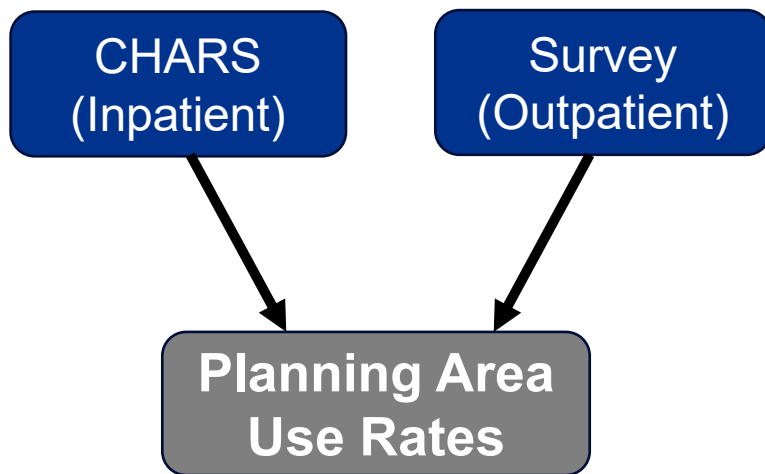
- Credible, reliable source of data. Accepted as the "source of truth"
- Accessible and publicly available (minimal to no cost)
- Comprehensive. No excluded sites of care or data omissions
- Timely data
- Transparent in how data is collected, processed, and published
- No restrictions or limitations on the ability to utilize data for the full scope of CN activities (e.g. Need models, applications, enforcement actions)

PCI Data Sources | *Current State (excludes COAP)*

PCI Data Sources: CHARS (inpatient) & annual elective PCI survey (outpatient)

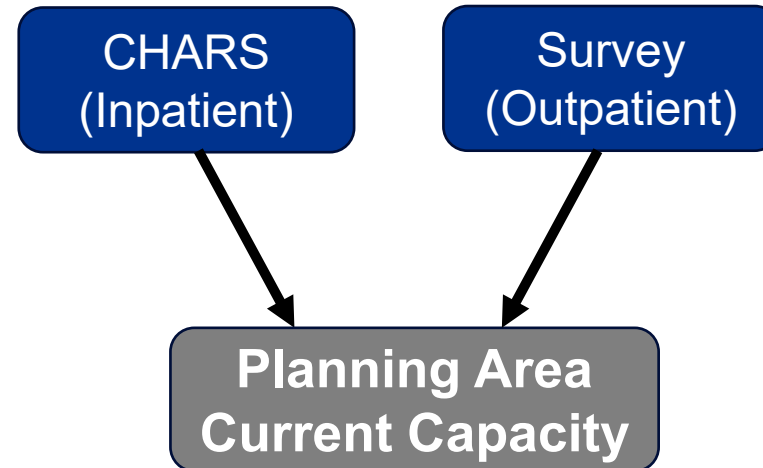
1. Inpatient: CN program relies on CHARS - WAC 246-310-745(7)(a)
2. Outpatient: CN program relies on annual hospital facility survey - WAC 246-310-745(7)(b)

Two Key Uses of CHARS and Survey Data in Need Model



Planning Area PCIs/1,000 pop

WAC 246-310-745(5)



Sum of Inpatient & Outpatient

WAC 246-310-745(10)(d)

PCI Data Definition (Inpatient) | *Current State -> Proposed State (1 of 2)*

Current State

WAC 246-310-705(4)

"Percutaneous coronary interventions (PCI)" means invasive but nonsurgical mechanical procedures and devices that are used by cardiologists for the revascularization of obstructed coronary arteries. These interventions include, but are not limited to:

- (a) Bare and drug-eluting stent implantation;
- (b) Percutaneous transluminal coronary angioplasty (PTCA);
- (c) Cutting balloon atherectomy;
- (d) Rotational atherectomy;
- (e) Directional atherectomy;
- (f) Excimer laser angioplasty;
- (g) Extractional thrombectomy.

Proposed State*

WAC 246-310-705(4)

"Percutaneous coronary interventions (PCI)" means invasive but nonsurgical mechanical procedures and devices that are used by cardiologists for the revascularization of obstructed coronary arteries and as further defined in WAC 246-310-745. These interventions include, but are not limited to:

- ~~(a) Bare and drug-eluting stent implantation;~~
- ~~(b) Percutaneous transluminal coronary angioplasty (PTCA);~~
- ~~(c) Cutting balloon atherectomy;~~
- ~~(d) Rotational atherectomy;~~
- ~~(e) Directional atherectomy;~~
- ~~(f) Excimer laser angioplasty;~~
- ~~(g) Extractional thrombectomy.~~

* Proposed state taken from draft [Workshop #4 Workbook](#)

-
- ✓ **Eliminates PCI textual definition**
 - ✓ **Consolidates 'definition' into single WAC 246-310-745**

PCI Data Definition (Inpatient) | *Current State -> Proposed State (2 of 2)*

Current State

WAC 246-310-745(4)

"Percutaneous coronary interventions" means cases as defined by diagnosis related groups (DRGs) as developed under the Centers for Medicare and Medicaid Services (CMS) contract that describe catheter-based interventions involving the coronary arteries and great arteries of the chest. The department will exclude all pediatric catheter-based therapeutic and diagnostic interventions performed on persons fourteen years of age and younger are excluded. The department will update the list of DRGs administratively to reflect future revisions made by CMS to the DRG to be considered in certificate of need definitions, analyses, and decisions. The DRGs for calendar year 2008 applications will be DRGs reported in 2007, which include DRGs 518, 555, 556, 557 and 558.

Proposed State*

WAC 246-310-745(4)

(b) Centers for Medicare and Medicaid Services (CMS) developed diagnosis related groups (MS-DRGs) for PCI that describe catheter-based interventions involving the coronary arteries and great arteries of the chest.

(c) The department will exclude all pediatric catheter-based therapeutic and diagnostic interventions performed on persons fourteen years of age and younger are excluded.

(d) The department will maintain a list of MS-DRGs applicable to adult elective PCI procedures on the Certificate of Need website. The department will review and, if necessary, update the MS-DRG list on an annual basis.

* Proposed state taken from draft [Workshop #4 Workbook](#)

-
- ✓ **Eliminates reference to DRGs in WAC**
 - ✓ **Shifts MS-DRG definition to CN website with annual review**

PCI Data Definition (Outpatient) | *Current State (1 of 4)*

On an annual basis the Department fields the PCI utilization survey for outpatient PCIs

- Department provides a guide to relevant DRGs and associated ICD-10 codes*

ICD-10 codes associated with PCI Procedures can be found in the CMS ICD-10 Definitions Manual, which includes ICD-10-CM Version 40 DRGs 246, 247, 248, 249, 250, and 251 for discharges from January 1, 2023 through September 30, 2023, and ICD-10-CM Version 41 DRGs 250, 251, 321, 322, 323, 324, and 325 for discharges from October 1, 2023, through December 31, 2023.

- Version 40:

- https://www.cms.gov/icd10m/version40-fullcode-cms/fullcode_cms/P0130.html

- https://www.cms.gov/icd10m/version39-fullcode-cms/fullcode_cms/P0131.html

- https://www.cms.gov/icd10m/version40-fullcode-cms/fullcode_cms/P0489.html

- https://www.cms.gov/icd10m/version40-fullcode-cms/fullcode_cms/P0132.html

- Version 41:

- https://www.cms.gov/icd10m/FY2024-nprmversion41.0-fullcode-cms/fullcode_cms/P0132.html

- https://www.cms.gov/icd10m/FY2024-nprmversion41.0-fullcode-cms/fullcode_cms/P0133.html

- https://www.cms.gov/icd10m/FY2024-nprmversion41.0-fullcode-cms/fullcode_cms/P0491.html

- https://www.cms.gov/icd10m/FY2024-nprmversion41.0-fullcode-cms/fullcode_cms/P0134.html

PCI Data Definition (Outpatient) | *Current State (2 of 4)*

Step 1: DRGs based on “Annual PCI Utilization Survey” email . . .

Jan 1, 2023 – Sep 30, 2023

DRG Code	DRG Code Description
DRG 246	PERCUTANEOUS CARDIOVASCULAR PROCEDURES WITH DRUG-ELUTING STENT WITH MCC OR 4+ VESSELS OR STENTS
DRG 247	PERCUTANEOUS CARDIOVASCULAR PROCEDURES WITH DRUG-ELUTING STENT WITHOUT MCC
DRG 248	PERCUTANEOUS CARDIOVASCULAR PROCEDURES WITH NON-DRUG-ELUTING STENT WITH MCC OR 4+ VESSELS OR STENTS
DRG 249	PERCUTANEOUS CARDIOVASCULAR PROCEDURES WITH NON-DRUG-ELUTING STENT WITHOUT MCC
DRG 250	PERCUTANEOUS CARDIOVASCULAR PROCEDURES WITHOUT CORONARY ARTERY STENT WITH MCC
DRG 251	PERCUTANEOUS CARDIOVASCULAR PROCEDURES WITHOUT CORONARY ARTERY STENT WITHOUT MCC

Oct 1, 2023 – Dec 31, 2023

DRG Code	DRG Code Description
DRG 250	PERCUTANEOUS CARDIOVASCULAR PROCEDURES WITHOUT INTRALUMINAL DEVICE WITH MCC
DRG 251	PERCUTANEOUS CARDIOVASCULAR PROCEDURES WITHOUT INTRALUMINAL DEVICE WITHOUT MCC
DRG 321	PERCUTANEOUS CARDIOVASCULAR PROCEDURES WITH INTRALUMINAL DEVICE WITH MCC OR 4+ ARTERIES/INTRALUMINAL DEVICES
DRG 322	PERCUTANEOUS CARDIOVASCULAR PROCEDURES WITH INTRALUMINAL DEVICE WITHOUT MCC
DRG 323	CORONARY INTRAVASCULAR LITHOTRIPSY WITH INTRALUMINAL DEVICE WITH MCC
DRG 324	CORONARY INTRAVASCULAR LITHOTRIPSY WITH INTRALUMINAL DEVICE WITHOUT MCC
DRG 325	CORONARY INTRAVASCULAR LITHOTRIPSY WITHOUT INTRALUMINAL DEVICE

PCI Data Definition (Outpatient) | Current State (3 of 4)

Step 2: ICD10 codes Version 40 & Version 41 based on DRGs. . .

ICD10 Procedure Codes (Version 40: Jan 1 - Sep 30, 2023)							
270346	02704E6	0271446	02723E9	0273356	02734G6	X2C2361	0273046
027034Z	02704EZ	027144Z	02723EZ	027335Z	02734GZ	X2C3361	027304Z
0270356	02704F6	0271456	02723F6	0273366	02734T6	02724Z6	02700D6
027035Z	02704FZ	027145Z	02723FZ	027336Z	02734TZ	02724ZZ	02700DZ
0270366	02704G6	0271466	02723G6	0273376	02C03Z6	02733Z6	02700T6
027036Z	02704GZ	027146Z	02723GZ	027337Z	02C03ZZ	02733ZZ	02700TZ
0270376	02704T6	0271476	02723T6	02733D6	02C04Z6	02734Z6	02710D6
027037Z	02704TZ	027147Z	02723TZ	02733DZ	02C04ZZ	02734ZZ	02710DZ
02703D6	02704Z6	02714D6	02723Z6	02733E9	02C13Z6	02U037Z	02710T6
02703DZ	02704ZZ	02714DZ	02723ZZ	02733EZ	02C13ZZ	02U038Z	02710TZ
02703E6	0271346	02714E9	0272446	02733F6	02C14Z6	02U03JZ	02720D6
02703EZ	027134Z	02714EZ	027244Z	02733FZ	02C14ZZ	02U03KZ	02720DZ
02703F6	0271356	02714F6	0272456	02733G6	02C23Z6	02U137Z	02720T6
02703FZ	027135Z	02714FZ	027245Z	02733GZ	02C23ZZ	02U138Z	02720TZ
02703G6	0271366	02714G6	0272466	02733T6	02C24Z6	02U13JZ	02730D6
02703GZ	027136Z	02714GZ	027246Z	02733TZ	02C24ZZ	02U13KZ	02730DZ
02703T6	0271376	02714T6	0272476	0273446	02C33Z6	02U237Z	02730T6
02703TZ	027137Z	02714TZ	027247Z	027344Z	02C33ZZ	02U238Z	02730TZ
02703Z6	02713D6	02714Z6	02724D6	0273456	02C34Z6	02U23JZ	02F03ZZ
02703ZZ	02713DZ	02714ZZ	02724DZ	027345Z	02C34ZZ	02U23KZ	02F13ZZ
0270446	02713E9	0272346	02724E9	0273466	02H03DZ	02U337Z	02F23ZZ
027044Z	02713EZ	027234Z	02724EZ	027346Z	02H03YZ	02U338Z	02F33ZZ
0270456	02713F6	0272356	02724F6	0273476	02H13DZ	02U33JZ	02C03Z7
027045Z	02713FZ	027235Z	02724FZ	027347Z	02H13YZ	02U33KZ	02C13Z7
0270466	02713G6	0272366	02724G6	02734D6	02H23DZ	0270046	02C23Z7
027046Z	02713GZ	027236Z	02724GZ	02734DZ	02H23YZ	027004Z	02C33Z7
0270476	02713T6	0272376	02724T6	02734E9	02H33DZ	0271046	
027047Z	02713TZ	027237Z	02724TZ	02734EZ	02H33YZ	027104Z	
02704D6	02713Z6	02723D6	0273346	02734F6	X2C0361	0272046	
02704DZ	02713ZZ	02723DZ	027334Z	02734FZ	X2C1361	027204Z	

ICD10 Procedure Code (Version 41: Oct 1 - Dec 31, 2023)							
02F03ZZ	02704D6	0271456	02723G6	02733D6	02H13DZ	02C14Z6	02U237Z
02F13ZZ	02704DZ	027145Z	02723GZ	02733DZ	02H13YZ	02C14ZZ	02U238Z
02F23ZZ	02704E6	0271466	02723T6	02733E6	02H23DZ	02C23Z6	02U23JZ
02F33ZZ	02704EZ	027146Z	02723TZ	02733EZ	02H23YZ	02C23Z7	02U23KZ
0270346	02704F6	0271476	0272446	02733F6	02H33DZ	02C23ZZ	02U337Z
027034Z	02704FZ	027147Z	027244Z	02733FZ	02H33YZ	02C24Z6	02U338Z
0270356	02704G6	02714D6	0272456	02733G6	02703Z6	02C24ZZ	02U33JZ
027035Z	02704GZ	02714DZ	027245Z	02733GZ	02703ZZ	02C33Z6	02U33KZ
0270366	02704T6	02714E6	0272466	02733T6	02704Z6	02C33Z7	
027036Z	02704TZ	02714EZ	027246Z	02733TZ	02704ZZ	02C33ZZ	
0270376	0271346	02714F6	0272476	0273446	02713Z6	02C34Z6	
027037Z	027134Z	02714FZ	027247Z	027344Z	02713ZZ	02C34ZZ	
02703D6	0271356	02714G6	02724D6	0273456	02714Z6	02FP3Z0	
02703DZ	027135Z	02714GZ	02724DZ	027345Z	02714ZZ	02FP3ZZ	
02703E6	0271366	02714T6	02724E6	0273466	02723Z6	02FQ3Z0	
02703EZ	027136Z	02714TZ	02724EZ	027346Z	02723ZZ	02FQ3ZZ	
02703F6	0271376	0272346	02724F6	0273476	02724Z6	02FR3Z0	
02703FZ	027137Z	027234Z	02724FZ	027347Z	02724ZZ	02FR3ZZ	
02703G6	02713D6	0272356	02724G6	02734D6	02733Z6	02FS3Z0	
02703GZ	02713DZ	027235Z	02724GZ	02734DZ	02733ZZ	02FS3ZZ	
02703T6	02713E6	0272366	02724T6	02734E6	02734Z6	02FT3Z0	
02703TZ	02713EZ	027236Z	02724TZ	02734EZ	02734ZZ	02FT3ZZ	
0270446	02713F6	0272376	0273346	02734F6	02C03Z6	02U037Z	
027044Z	02713FZ	027237Z	027334Z	02734FZ	02C03Z7	02U038Z	
0270456	02713G6	02723D6	0273356	02734G6	02C03ZZ	02U03JZ	
027045Z	02713GZ	02723DZ	027335Z	02734GZ	02C04Z6	02U03KZ	
0270466	02713T6	02723E6	0273366	02734T6	02C04ZZ	02U137Z	
027046Z	02713TZ	02723EZ	027336Z	02734TZ	02C13Z6	02U138Z	
0270476	0271446	02723F6	0273376	02H03DZ	02C13Z7	02U13JZ	
027047Z	027144Z	02723FZ	027337Z	02H03YZ	02C13ZZ	02U13KZ	

PCI Data Definition (Outpatient) | *Current State (4 of 4)*

Sources for DRGs and ICD10 codes.

Codes	Source
ICD10 Procedure Codes_1	https://www.cms.gov/icd10m/version%20371r1-fullcode-cms/fullcode_cms/P0008.html
ICD10 Procedure Codes_2	https://www.cms.gov/icd10m/FY2024-nprmversion41.0-fullcode-cms/fullcode_cms/P0008.html
DRG Codes_1	https://www.cms.gov/icd10manual/version33-fullcode-cms/fullcode_cms/P0008.html
DRG Codes_2	https://www.cms.gov/icd10m/FY2024-nprmversion41.0-fullcode-cms/fullcode_cms/P0008.html

PCI Data Definition | *Recommendations & Discussion*

Recommendations:

- 1. On the CN website, provide a comprehensive list of both MS-DRG and ICD10 procedure codes.**
- 2. Codify annual refresh of PCI definition within the concurrent review cycle (WAC 246-310-710) and provide a specific date for reviewing and updating the PCI definition.**
 - Validate and update definition by end of May, given PCI survey is conducted July 10 – Aug 15
- 3. Convene a subcommittee to evaluate the draft DRG and ICD10 code list and bring back a final recommendation to a future PCI Workshop.**



Discussion:

- 1. What level of PCI definition detail should be maintained on CN website?**
 - DRGs only? / ICD10 codes? / CPT codes?
 - Note: Given the changing definition of DRGs across the years, the Dept will need to maintain a *historical definition snapshot* that begins with the base year for the current need methodology.
- 2. What are the advantages and disadvantages of the Dept maintaining a comprehensive PCI definition on the CN website?**