

## HEALTHCARE COST AND UTILIZATION PROJECT (HCUP) RECOMMENDATIONS FOR REPORTING TRENDS USING ICD-9-CM AND ICD-10-CM/PCS DATA

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## RECOMMENDATIONS FOR REPORTING TRENDS USING ICD-9-CM AND ICD-10-CM/PCS DATA

The Healthcare Cost and Utilization Project (HCUP) has developed recommendations for reporting statistics (e.g., counts, rates, averages) that are based on HCUP data with a mixture of ICD-9-CM and ICD-10-CM/PCS codes.<sup>1</sup> These recommendations apply to calendar year 2015 data (which includes both ICD-9-CM and ICD-10-CM/PCS codes), as well as reporting trends that span the October 1, 2015 transition date (before and after the introduction of ICD-10-CM/PCS).

ICD-10-CM/PCS was implemented in the U.S. on October 1, 2015, thus administrative data that are annual, calendar-year files that span the transition dates, such as the 2015 HCUP databases include both coding schemes:

- Nine months of data with ICD-9-CM codes (Jan 1, 2015 to September 30, 2015)
- Three months of data with ICD-10-CM/PCS codes (October 1, 2015 to December 31, 2015).

Table 1 lays out recommendations for using 2015 HCUP databases that contain both ICD-9-CM and ICD-10-CM/PCS codes, depending on the purpose of the analysis.

These same recommendations apply to reporting trends across years that include both ICD-9-CM and ICD-10-CM/PCS codes.

The HCUP team is continuing to conduct analyses on the impact of the ICD-10-CM/PCS coding system on the examination of trends in health care in the United States. The most recent reports and guidance for doing analysis with ICD-10 data can be accessed on the HCUP-US Web site under ICD-10-CM/PCS Resources.

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<sup>&</sup>lt;sup>1</sup> ICD-9-CM: International Classification of Diseases, Ninth Revision, Clinical Modification; ICD-10-CM/PCS: International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System.

Table 1. Recommendations for Reporting Statistics Using Data that Include both ICD-9-CM and ICD-10-CM/PCS Codes

Do Analyses Focus on	Pocommondation
Diagnoses or Procedures?	Recommendation
Yes—Analysis is based on diagnosis and procedure codes (i.e., uses ICD-9-CM and ICD-10-CM/PCS codes)	The first step should be to analyze the data by discharge quarter (HCUP data element: <a href="DQTR">DQTR</a> ) to determine whether there is discontinuity in the categorization because of the transition from ICD-9-CM (in DQTR=1-3) to ICD-10-CM/PCS (DQTR=4).
	Based on this analysis, if there is a discontinuity across the two coding systems in the frequency of cases within a diagnosis or procedure code or category of codes, report data in a way that acknowledges the discontinuity.  • Example 1: Report fourth quarter data separately from the previous three quarters of data. This approach is demonstrated in the

Abbreviations: AHRQ, Agency for Healthcare Research and Quality; HCUP, Healthcare Cost and Utilization Project; ICD-9-CM: International Classification of Diseases, Ninth Revision, Clinical

Modification; ICD-10-CM/PCS: International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System.

<sup>&</sup>lt;sup>a</sup> The Clinical Classifications Software provides a method for classifying diagnoses or procedures into clinically meaningful categories, which can be used for aggregate statistical reporting.

<sup>&</sup>lt;sup>b</sup> U.S. Department of Health and Human Services. 2015 National Healthcare Quality and Disparities Report and 5th Anniversary Update on the National Quality Strategy. AHRQ Publication No. 16-0015. Rockville, MD: Agency for Healthcare Research and Quality; 2016. <a href="https://www.ahrq.gov/sites/default/files/wysiwyg/research/findings/nhqrdr/nhqdr15/2015nhqdr.pdf">https://www.ahrq.gov/sites/default/files/wysiwyg/research/findings/nhqrdr/nhqdr15/2015nhqdr.pdf</a>. Accessed March 6, 2017.