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**2016 HEALTHCARE COST AND UTILIZATION PROJECT (HCUP)
KIDS' INPATIENT DATABASE:
CHANGE IN STRUCTURE DUE TO ICD-10-CM/PCS**

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INTRODUCTION

This document provides an overview of how the Healthcare Cost and Utilization Project (HCUP) 2016 Kids' Inpatient Database (KID) has changed in file structure as compared with the 2012 KID.

The KID is the largest publicly-available all-payer pediatric inpatient care database in the United States, yielding national estimates of hospital inpatient stays by children aged 20 years or less at admission. These inpatient data include clinical and resource use information typically available from discharge abstracts. Researchers and policymakers use the KID to make national estimates of health care utilization, access, charges, quality, and outcomes for children.

The 2016 KID is an annual, calendar year file with diagnosis and procedure codes reported using only the ICD-10-CM/PCS coding system. The file structure of the 2016 KID is similar to the file structure of the KID prior years with one exception, data elements derived from AHRQ software tools are not available in the 2016 KID because the ICD-10-CM/PCS versions are still under development. For users interested in applying the AHRQ software tools to the ICD-10-CM/PCS data in the 2016 KID, beta versions of the AHRQ software tools are available for download on the HCUP Tools & Software section of the HCUP User Support (HCUP-US) Web site. A tutorial is available to users interested in applying the AHRQ software tools to the 2016 KID at www.hcup-us.ahrq.gov/tech_assist/tutorials.jsp.

This document outlines the revised file structure of the HCUP KID in 2016 and provides resources to aid HCUP data users in using these files and data elements based on ICD-10-CM/PCS codes.

REVISED FILE STRUCTURE OF THE 2016 KIDS' INPATIENT DATABASE

The 2016 KID includes two discharge-level files and one-hospital level file:

- **Discharge-level Files**

    o **Inpatient Core File** is a single file containing commonly used data elements (e.g. age, expected primary payer, ICD-10-CM/PCS codes, total charges). The difference in 2016 is that it does not contain the following data elements derived from ICD-10-CM/PCS codes: Clinical Classification Software categories (I10_DXCCSn, I10_PRCCSn, I10_ECAUSECCSn), neonatal and/or maternal discharge indicator (I10_NEOMAT), number of chronic conditions (I10_NCHRONIC), and major operating room procedure indicator (I10_ORPROC).

    o **Disease Severity File** is a single file containing additional data elements to aid in identifying the severity of the condition for a specific discharge. The difference in 2016 is that it does not contain the Elixhauser Comorbidity Software indicators.

    o The 2016 KID does not include a **Diagnosis and Procedure Groups File**.

- **Hospital Weights File** is a single file containing information on hospital characteristics.

A complete list of data elements discontinued in the 2016 KID is available in Appendix A.

RESOURCES FOR USING ADMINISTRATIVE DATA WITH ICD-10-CM/PCS DIAGNOSIS AND PROCEDURE CODES

The HCUP-US Web site has a section on ICD-10-CM/PCS Resources that summarizes key issues for researchers using HCUP and other administrative databases that include ICD-10-CM/PCS coding.

If you are unfamiliar with ICD-10-CM/PCS coding, please refer to the following two documents available on the Web page:

- A brief introduction to the ICD-10-CM/PCS coding system.
- HCUP Methods Series Report on the Impact of ICD-10-CM/PCS on Research Using Administrative Databases.

If you are considering using the KID to examine clinical conditions that will be defined using both ICD-9-CM and ICD-10-CM/PCS coding, please refer to the following important resource:

- HCUP recommendations for reporting trends using ICD-9-CM and ICD-10-CM/PCS data.

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 ICD10-CM/PCS).

The HCUP ICD-10-CM/PCS Resources Web page also includes the following short reports with new documents added periodically:

- Examination of trends between ICD-9-CM and ICD-10-CM/PCS for key data elements such as number of diagnoses/procedures and Clinical Classification Software categories.
- Examination of coding for opioid use under ICD-9-CM and ICD-10-CM/PCS.
- Other Federal and State Web resources with information on ICD-10-CM/PCS.

For users interested in applying the AHRQ Software Tools to the 2016 KID, beta versions of the software are available on the Tools & Software page of the HCUP-US Web site. Additionally, users may wish to review the HCUP Tools Loading Tutorial, which provides instructions on how to unzip (decompress) the HCUP Software Tools for ICD-10-CM/PCS, save it on the computer, and load the Tool into a standard statistical software package for application to HCUP or other administrative databases. Users will also learn how to verify that the Tool has loaded correctly.

APPENDIX A: COMPLETE LIST OF DATA ELEMENTS DISCONTINUED IN THE 2016 KID

Appendix A includes a complete list of discontinued data elements on the 2016 KID. This list includes data elements derived from AHRQ Software Tools as well as additional data elements that rely on ICD-10-CM/PCS coding in the definition of one or more values (i.e., I10_ORPROC).

Data Element Name	Description	KID FIle
I10_BODYSYSTEMn[a,b]	Body system n	DX_PR_GRPS
I10_CHRONn[a]	Chronic condition indicator n	DX_PR_GRPS
I10_CM_ - comorbidity indicators[a]	Elixhauser Comorbidity Indicators	Severity
I10_DXCCSn[a]	Clinical Classifications Software (CCS): Diagnosis 1	Core
I10_DXMCCS1[a]	Multi-level CCS: Diagnosis n	DX_PR_GRPS
I10_ECauseCCSn[a]	CCS: External cause of morbidity codes n	Core
I10_ECauseMCCS1[a]	Multi-level CCS: External cause of morbidity codes 1	DX_PR_GRPS
I10_NCHRONIC[a]	Number of Chronic Conditions	Core
I10_NEOMAT	Neonatal and/or maternal indicator	Core
I10_ORPROC[c]	Major operating room procedure indicator	Core
I10_PCLASSn[a]	Procedure class n	DX_PR_GRPS
I10_PRCCSn[a]	CCS: procedure n	Core
I10_PRMCCS1[a]	Multi-level CCS: Procedure 1	DX_PR_GRPS

[a] Data elements derived from HCUP software tools are not available in the 2016 KID because the ICD-10-CM/PCS versions are under development. If an ICD-10-CM/PCS version of AHRQ software tools are needed, please refer to the HCUP Tools and Software section of the HCUP-US Web site.
[b] I10_BODYSYSTEMn was named CHRONBn under ICD-9-CM
[c] I10_ORPROC is derived from the procedure class software, which is not available on the 2016 KID; therefore, ORPROC also is not available.