

USHIK

HITSP Portal Quick Start Guide

How do I...

1. **Navigate the HITSP portal?**
2. **Research a HITSP Construct?**
3. **Find a data element specified by HITSP?**
4. **Find a value set specified by HITSP?**
5. **Compare Data elements and/or value sets used in various constructs?**
6. **Compare HITSP specs with/to SDOs**
7. **Download/print the results of my search?**
8. **Reference a HITSP document not yet registered into USHIK?**
9. **Report an error or discrepancy found in the database?**
10. **Learn more about the USHIK application or contact administrative leadership?**

Navigating the Portal:

USHIK has designated a portal specifically for HITSP research/reference. Once at USHIK (<http://ushik.ahrq.gov>) select the tab at the upper left of the web page named HITSP Portal. From here you may use the links on the left of the page to navigate

- via the **Information Model** link (which allows you to view constructs (documents) developed by Technical Committees (TCs) using expandable columns)

The screenshot displays the HITSP Technical Committees portal. At the top, there are navigation tabs for Clinical Operations, Clinical Quality/Public Health, and Admin and Finance. Below this is a header for 'HITSP Technical Committees' with a 'Show All / Hide All' link. A list of committees is shown, including 'Care Management Health Records' and 'Foundation Harmonization Subcommittee'. Below the list are three columns of expandable cards, each representing a different perspective: Provider Perspective, Population Perspective, and Consumer Perspective. Each card contains a list of constructs with their IDs and titles, such as IS01 Electronic Health Record (EHR) Laboratory Results Reporting, IS02 Biosurveillance, and IS03 Consumer Empowerment. The cards are designed to be expanded to show more details.

- via **HITSP Constructs** link (which will allow you to select from a list of constructs)

HITSP constructs are version controlled and, if reused or repurposed, will be uniquely identified. Constructs are available for reuse or repurposing.

An Interoperability Specification (IS) may reference Component (C), Transaction (T) or Transaction Package (TP) constructs. Technical Notes provide guidance on constructs.

HITSP Construct
• HITSP C105 Patient Level Quality Data Document Using HL7 Quality Reporting Document Architecture (QRDA) v 0.0.2
• HITSP C154 Data Dictionary Component Draft
• HITSP C19 Entity Identity Assertion Component V
• HITSP C25 Anonymize Component V2.2
• HITSP C26 Nonrepudiation of Origin Component V1.2
• HITSP C28 Emergency Care Summary Document Using IHE Emergency Department Encounter Summary (EDES) Component Version 1.1
• HITSP C32 Summary Documents Using HL7 Continuity of Care Document (CCD) Component
• HITSP C32 Summary Documents Using HL7 Continuity of Care Document (CCD) Component V2.4
• HITSP C34 Patient Level Quality Data Message Component V1.2
• HITSP C35 Lab Result Terminology Component
• HITSP C36 Lab Result Message Component
• HITSP C37 Lab Report Document Component
• HITSP C38 Patient Level Quality Data Document Using IHE Medical Summary (XDS-MS) Component V1.1
• HITSP C39 Encounter Message Component
• HITSP C41 Radiology Result Message Component
• HITSP C44 Secure Web Connection Component
• HITSP C47 Resource Utilization Message Component
• HITSP C48 Encounter Document Using IHE Medical Summary (XDS-MS) Component
• HITSP C62 Unstructured Document Component
• HITSP C70 Immunization Query and Response Component
• HITSP C72 Immunization Message Component
• HITSP C74 Remote Monitoring V1.0
• HITSP C75 Healthcare Associated Infection (HAI) Report Component
• HITSP C76 Case Report Pre-Populate Component
• HITSP C78 Immunization Document Component
• HITSP C80 Clinical Document and Message Terminology
• HITSP C82 Emergency Common Alerting Protocol Component
• HITSP C83 CDA and CCD Content Module Component V 1.0
• HITSP C83 V.2 CDA Content Modules Component



or

- via the **HITSP Search or Advanced Search** link (which allows you to conduct a search). The search may be initiated by typing the complete data elements name, partial item name, short name, alternate name, keyword, phrase, OID, context, or other properties of a data element, value set, module or construct). The result will allow you to further narrow your search and/or compare the metadata properties of each of the data elements/values sets and/or modules selected.

HITSP

United States Health Information Knowledgebase

U.S. Department of Health & Human Services | Accessibility | Skip Navigation | www.hhs.gov

AHRQ Agency for Healthcare Research and Quality | Advancing Excellence in Health Care | www.ahrq.gov

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HITSP
United States Health Information Knowledgebase

The mission of the Healthcare Information Technology Standards Panel is to serve as a cooperative partnership between the public and private sectors for the purpose of achieving a widely accepted and useful set of standards specifically to enable and support widespread interoperability among healthcare software applications, as they will interact in a local, regional and national health information network for the United States.

Comprised of a wide range of stakeholders, the Panel will assist in the development of the U.S. Nationwide Health Information Network (NHIN) by addressing issues such as privacy and security within a shared healthcare information system.

[From www.hitsp.org]

USHIK provides... to aid in cross-comparisons utilizing the USHIK... selected standards and HITSP-created items in order to... HITSP and other users with easy access to their... USHIK is housed and managed by the Agency for Healthcare Research and Quality with CMS and VA as strategic interagency partners. Click here for more information about the [Healthcare Information Technology Standards Panel](#).

Highlights

- A 100% HITSP Data Element inventory has been loaded into USHIK.
- 2009 Information Model Updated

Related Links:

- [HITSP Library](#)

*You may also download your results in PDF, XML, and Excel formats. (Further information on the comparison matrix and download metadata information is below)

Researching HITSP Constructs:

USHIK has designated a separate portal specifically for HITSP specifications.

AHRQ Agency for Healthcare Research and Quality | Advancing Excellence in Health Care | www.ahrq.gov

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There are three ways in which you may reference/research HITSP Constructs.

- You may select the [HITSP Constructs](#) link on the left of the portal page, and then you may select the HITSP document that you would like to reference from an interactive list, and drill down from content, to sections/modules to the data elements and/or value sets selected

within. There is a [letter wheel](#) at the bottom of each model view, that allows you to select a known data element and/or value set by the first letter of its name, or you may select [all](#), which will make visible all data element/value sets used in that construct.

Name:	HITSP C154 Data Dictionary Component Draft
Start Date:	2009-11-09
End Date:	
Scope:	This specification is a library of the HITSP defined data elements that are used for mapping to data elements from the HITSP selected standards. It defines data elements that have been constrained or used in other HITSP documents (such as components, transactions, transaction packages) and facilitates the consistent use of these data elements across the various HITSP selected standards. It does not attempt to specify all the data elements for the standards selected by HITSP (i.e. only those constrained). The Data Elements are organized into modules to simplify navigation, such as Medications, Advance Directives, Immunizations, etc. This specification does not enable the use of the data elements, this is accomplished by a HITSP construct that is based upon a specific standard (such as HL7, X12N, NCPDP, etc.) In order to facilitate harmonization of value sets across the various selected standards, this specification may define value set constraints. When this does not occur, it is because the data element does not require a value set or a harmonized value set was not determined. These value sets in turn reference standard terminologies in HITSP/CSD. HITSP/C154 does not define any other constraints (such as optionality) as those constraints are identified in the HITSP construct that enables the data element. There are many ways that various HITSP documents may constrain a data element, some examples include: <ul style="list-style-type: none"> • Specifying the Optionality of a data element, such as required, required if known or conditional • Selecting value sets for the data element (which may be the same as HITSP/C154 or additional constraints) • Refining the information that may be provided in that data element when it is used in an exchange HITSP document, TN03 – Data Architecture, provides a more detailed explanation about the use of data elements (and other data architecture concepts) within HITSP. This specification is a library of the HITSP defined data elements that are used for mapping to data elements from the HITSP selected standards. It defines data elements that have been constrained or used in other HITSP documents (such as components, transactions, transaction packages) and facilitates the consistent use of these data elements across the various HITSP selected standards. It does not attempt to specify all the data elements for the standards selected by HITSP (i.e. only those constrained). It is used by other HITSP Constructs to establish the set of harmonized constraints that HITSP applies across the selected standards. This section provides an introduction to the concepts used in describing the data elements used in HITSP specifications. The HITSP Data Elements in this document are organized into modules described in Table 2.1 below. The module identifier is given in the first column, followed by the name and definition of what appears in that module. These modules are described in more detail below via HITSP Data Elements (Modules)

Model views associated with this construct

- [01. Personal Information](#)
- [02. Language Module](#)
- [03. Support](#)
- [04. Healthcare Providers](#)
- [05. Insurance Providers and Payers](#)
- [06. Allergies and Drug Sensitivities](#)
- [07. Conditions](#)
- [08. Medications](#)
- [09. Pregnancy](#)
- [10. Information Source](#)
- [11. General Purpose](#)
- [12. Advance Directive](#)
- [13. Immunization](#)
- [14. Vital Signs](#)
- [15. Test Results](#)
- [16. Encounter](#)
- [17. Procedures](#)
- [18. Family History](#)
- [19. Social History](#)
- [20. Medical Equipment](#)
- [21. Functional Status](#)
- [22. Plan of Care](#)
- [23. Clinical Research](#)
- [24. Order](#)
- [25. Specimen](#)
- [Care Experience](#)
- [Communication](#)
- [Condition/Diagnosis/Problem](#)
- [DATA MAPPING TO HITEP II DATA](#)
- [Device](#)
- [Diagnostic study](#)
- [Encounter](#)
- [Functional status](#)
- [Individual characteristics](#)



Data Elements linked to this Construct (Counts of Data Elements follow each start letter)

[\[A\(4\)\]](#) [\[B\(0\)\]](#) [\[C\(3\)\]](#) [\[D\(4\)\]](#) [\[E\(1\)\]](#) [\[F\(5\)\]](#) [\[G\(0\)\]](#) [\[H\(0\)\]](#) [\[I\(4\)\]](#) [\[J\(0\)\]](#) [\[K\(0\)\]](#) [\[L\(0\)\]](#) [\[M\(2\)\]](#) [\[N\(0\)\]](#)

Value Sets linked to this Construct (Counts of Value Sets follow each start letter)

[\[A\(0\)\]](#) [\[B\(1\)\]](#) [\[C\(3\)\]](#) [\[D\(5\)\]](#) [\[E\(2\)\]](#) [\[F\(3\)\]](#) [\[G\(6\)\]](#) [\[H\(1\)\]](#) [\[I\(1\)\]](#) [\[J\(0\)\]](#) [\[K\(0\)\]](#) [\[L\(5\)\]](#) [\[M\(17\)\]](#) [\[N\(2\)\]](#)

- You may select the [HITSP Information Model](#) to find constructs.

HITSP

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The main content area is organized into three columns: "Provider Perspective", "Population Perspective", and "Consumer Perspective". Each column contains a list of committees with their IDs and titles. For example, under "Provider Perspective", there is "IS01 Electronic Health Record (EHR) Laboratory Results Reporting" and "IS04 Emergency Responder Electronic Health Record (ER-EHR)".

At the bottom of the screenshot, there is a detailed list of committees, including their IDs and titles, such as "CAP Communicate of Lab Results Document" and "IS01 Electronic Health Record (EHR) Laboratory Results Reporting".

- They are graphically placed under the expandable columns of their own Technical Committees. For example if you know that a construct was authored by Population Perspective Committee, you may select that column in the information model; select *expand all* and select the construct of interest. At this time, your selection will take you to the construct (in model view) at which time you may continue your search by content, context, or data metadata (as before mentioned).
- You may enter the name of the construct (partial or complete) into the search or advance search bar and select from the list rendered.

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Highlights

- A 100% HITSP Data Element inventory has been loaded into USHIK.
- [2009 Information Model Unleashed](#)

Related Links:

- [HITSP Library](#)

Finding a Data Element:

- To find a **data element** when you *know the whole name* (or at least the first part); from any page, type the first part of the name into the “Quick Search” box in the header and click “Begin Search.” The system will return any data elements beginning with that word or phrase.

U.S. Department of Health & Human Services | www.hhs.gov

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Highlights

- A 100% HITSP Data Element inventory has been loaded into USHIK.
- [2009 Information Model Unleashed](#)

Related Links:

- [HITSP Library](#)

- To find a **data element** when you *know some part of the name*; from any page, go to the Advanced Search via the “Search” button in the header. Type the part of the name you know into the “Component Name” box, select the radio button “Contains” underneath, and then click “Begin Search.” The system will return any data elements containing that word or phrase.
- To find a **data element** by *keyword*: From any page, go to the Advance Search via the “search” button in the header. Type the keyword into the “definition” box, select the radio button “Contains” underneath, and then click “Begin Search.” The system will return any data elements with definitions containing that word or phrase.
- To find **similar data elements** *via the high-level model*: From any page, click on the header or footer button “Models”, click on NHIM, find a subject in the graphics that seems likely to be the type of element you are hunting. Click on that part of the graphic; the system will bring up the next level of the model AND any data elements mapped to that level. Continue to drill down by clicking on another model view from this page that further limits the kinds of data elements returned by subject OR choose to look at the list from the alphabetic counts or ALL.
- To find **data elements** by the *same Organization*: From any page, click on the header or footer button “Organization”, find the Organization of interest via the letter wheel or the full list (All), click on the name of the Organization. The system will return any data element registered by that Organization.
or
- From any page - go to the Advance Search via the “Search” button in the header. Depending upon the relationship of the Organization to the data element (Registration Authority, Responsible Organization or Submitting Organization), *select the Organization* from the proper drop-down box , then click “*Begin Search*.” The system will return any data elements with the Organization of interest in the selected role.
- To find **data elements** in *the same Data Collection, Data Agreement or Initiative*; from any page, click on the header or footer button “Collections” “Agreement” or “Initiatives.” Find the Data Collection, Agreement or Initiative of interest via the letter wheel or the full list (All), and then click on the name of the Collection, Agreement or Initiative. The system will return any data elements registered by that Collection, Agreement or Initiative. For other Functional Groupings or Views, select the Menu Item on the left, then the grouping of interest. For requesting new Functional Groupings or Views, or for special database queries, use the “Give us your Feedback” form (icon on every page).

Finding Value Sets:

- To find a **value set** where you know the whole name (or at least the first part): From any page, type the first part of the name into the “Quick Search box in the header and click “Begin Search.” The system will return any value sets beginning with that word or phrase.

The screenshot shows the HITSP website interface. At the top, there is a navigation bar with the U.S. Department of Health & Human Services logo and the AHRQ Agency for Healthcare Research and Quality logo. A search box labeled "Search USHIK" is highlighted with a red arrow. Below the header, there is a navigation menu with "USHIK", "HITSP Portal", and "Common Formats". The main content area features a large blue banner with the HITSP logo and the text "United States Health Information Knowledgebase". Below the banner, there is a search box labeled "HITSP Search" with a "Quick Search" button. A red arrow points to the search box. The page also includes a "Highlights" section on the right and a "Related Links" section at the bottom left.

- To find a **value set** where you know some part of the name; from any page go to the Advanced Search via the “search” button in the header. Type the part of the name that you know into the “Component Name” box, select the radio button “Contains” underneath, then click “begin Search.” The system will return any value sets containing that work or phrase.
- To find a **value set** by keyword: From any page go to the Advance Search via the “search” button in the headers. Type the keyword into the “Definition: box, select the radio button “Contains” underneath, and then click “begin Search.” The system will return any value sets with definition containing that work or phrase.
- To find similar value sets via the high-level model: From any page, click on the header or footer button “models”, click on NHIN, find a subject in the graphic that seems likely to be the type of element you are hunting. Click on that part of the graphic; the system will bring up the next level of the model AND any value sets mapped to that level. Continue to drill down b clicking on another model view from this page that further

limits the kinds of value sets returned by subject OR choose to look at the list form the alphabetic counts or ALL.

- To find **value sets** by the same Organization: From any page, click n the headers or footer button “Organization”, find the Organization of interest via the letter wheel or the full list (All), click on the name of the Organization. The system will return any value sets registered by that Organization.
- or
- From any page, go to the Advanced Search via the “search” button in the header. Depending upon the relationship of the Organization to the value set (Registration Authority, Responsible Organization, or Submitting Organization), select the Organization from the proper drop-down box, and then click “Begin Search.” The system will return any value sets with the Organization of interest in the selected role.
- To find **value sets** in the same Data Collection, Data Agreement or initiative: From any page, click on the header or footer button “Collections” “Agreements” or “Initiatives.” Find the data Collection, Agreement, or Initiative of interest via the letter wheel or the full list (All), then click on the name of the Collection, Agreement or initiative. The system will return any value sets registered by that Collection, Agreement or Initiative.

Comparing Metadata of Data Elements: (Comparison Matrix)

<input type="checkbox"/>	Data Element	Data Element	Explanatory Comment	Admission Date	...ospital Admission Diagnosis and 2.2.2.7 Condition...
<input type="checkbox"/>	Data Element	Data Element	Admin Note	Admission Date	...ospital Admission Diagnosis and 2.2.2.7 Condition...
<input type="checkbox"/>	Data Element	Data Element	Definition	Age	...port at the time of diagnosis
<input type="checkbox"/>	Functional Group	Data Agreement	Admin Note	HITSP C25 Anonymize Component V2.2	...ient number where a diagnosis should be put), but t...
<input type="checkbox"/>	Functional Group	Data Agreement	Admin Note	HITSP C34 Patient Level Quality Data Message Component V1.2	... HL7attributes)_h Diagnosis (DG1) y\ Administrati...
<input checked="" type="checkbox"/>	Functional Group	Model View	Name	Diagnosis Data (C34)	Diagnosis Data (C34)
<input type="checkbox"/>	Functional Group	Model View	Name	Diagnosis Data (C38)	Diagnosis Data (C38)
<input type="checkbox"/>	Data Element	Data Element	Definition	Impressions	...f service including diagnosis and impressions
<input type="checkbox"/>	Data Element	Data Element	Definition	Age	...e report at time of diagnosis
<input checked="" type="checkbox"/>	Data Element	Data Element	Name	Diagnosis Date/Time	Diagnosis Date/Time
<input type="checkbox"/>	Data Element	Data Element	Name	Diagnosis Type	Diagnosis Type
<input checked="" type="checkbox"/>	Data Element	Data Element	Name	Diagnosis/Injury Code	Diagnosis/Injury Code
<input checked="" type="checkbox"/>	Data Element	Data Element	Name	Patient Recovered Diagnosis	Patient Recovered Diagnosis
<input type="checkbox"/>	Data Element	Data Element	Definition	Pregnancy Status	...pregnant at time of diagnosis

Export to Excel Export to PDF Export to XML Add to Saved List Run Matrix Report

Item Type	Functional Group	Data Element	Data Element	Functional Group	Data Element
Organization	HITSP	HITSP	HITSP	HITSP	HITSP
Data Element ID	000001 0405 v1	000001 0405 v1	000001 0405 v1	000001 0405 v1	000001 0405 v1
Data Element Name	Diagnosis Data (C34)	Diagnosis Data/Time	Diagnosis/Injury Code	HOSPITAL_ADMISSION	Patient Recovered
Item Definition	Diagnosis, Type and Priority	The date that the subject of the Care Report was diagnosed with Condition	Diagnosis or diagnosis assigned as a result of the encounter	2.2.1.10 The Hospital Admitting/Discharge/Transfer/Referral information about the primary reason for admission to a hospital	Final International Classification of Diseases
Comments	HITSP/CM Patient Level Quality Data Message Component	HITSP/CF Anonymize Public Health Case Reporting Data Component	HITSP/CF Anonymize Public Health Case Reporting Data Component	HITSP/CF Anonymize Public Health Case Reporting Data Component	HITSP/CF Anonymize Public Health Case Reporting Data Component

After finding your data element (or other data) of interest (via search, advance search), from the results rendered – select any box in the matrix to the left of the data elements (Value sets), whose metadata that you wish to compare with those of other data elements (Value sets). If all of the items you wish to compare are viewable via one screen and you have completed your search, you may click on the “[Run Matrix Report](#)” at the bottom right of the screen, however if you would like to continue your search, select “[Add to Matrix Report List](#)” and continue to add data as needed until your search is complete, at which time return to “Run Matrix Report”. You must click “Run Matrix Report” to set up the comparison matrix – an ordered array of data elements by column with the same metadata category for each element in a single row.

[Comparing HITSP Specified Data Element/Value Set Metadata with other SDO metadata:](#)

If you would like to compare the HITSP Data Element metadata to that of another SDO’s data element, return to the USHIK Main Page and enter the data element name in the search engine - at which time ALL SDO data elements with “like” or exact names will return for continued comparison. (Other “like” HITSP Data Elements will be included as well -See above).

[Downloading Results:](#)

<input type="checkbox"/>	Data Element	Data Element	Explanatory Comment	Admission Date	...ospital Admission Diagnosis and 2.2.2.7 Condition...
<input type="checkbox"/>	Data Element	Data Element	Admin Note	Admission Date	...ospital Admission Diagnosis and 2.2.2.7 Condition...
<input type="checkbox"/>	Data Element	Data Element	Definition	Age	...port at the time of diagnosis
<input type="checkbox"/>	Functional Group	Data Agreement	Admin Note	HITSP C25 Anonymize Component V2.2	...ient number where a diagnosis should be put), but t...
<input type="checkbox"/>	Functional Group	Data Agreement	Admin Note	HITSP C34 Patient Level Quality Data Message Component V1.2	... HL7attributes) ,h Diagnosis (DG1) iV Administrati...
<input checked="" type="checkbox"/>	Functional Group	Model View	Name	Diagnosis Data (C34)	Diagnosis Data (C34)
<input type="checkbox"/>	Functional Group	Model View	Name	Diagnosis Data (C38)	Diagnosis Data (C38)
<input type="checkbox"/>	Data Element	Data Element	Definition	Impressions	...f service including diagnosis and impressions
<input type="checkbox"/>	Data Element	Data Element	Definition	Age	...e report at time of diagnosis
<input checked="" type="checkbox"/>	Data Element	Data Element	Name	Diagnosis Date/Time	Diagnosis Date/Time
<input type="checkbox"/>	Data Element	Data Element	Name	Diagnosis Type	Diagnosis Type
<input checked="" type="checkbox"/>	Data Element	Data Element	Name	Diagnosis/Injury Code	Diagnosis/Injury Code
<input checked="" type="checkbox"/>	Data Element	Data Element	Name	Patient Recovered Diagnosis	Patient Recovered Diagnosis
<input type="checkbox"/>	Data Element	Data Element	Definition	Pregnancy Status	...pregnant at time of diagnosis

[Export to Excel](#) [Export to PDF](#) [Export to XML](#) [Add to Saved List](#) [Run Matrix Report](#)

You may download your results via the tabs at the bottom of the page labeled **Export to Excel, Export to PDF, and Export to XML.** Use Select All or check the boxes next to the items that you want to export.

HITSP

United States Health Information Knowledgebase

Referencing HITSP Documents not found in USHIK:

The screenshot shows the USHIK website interface. At the top, there are navigation tabs for 'USHIK', 'HITSP Portal', and 'Common Formats'. Below the navigation is a sidebar with a list of categories: Data Elements, Value Sets, Constraints, Vocabularies, HITSP Templates, HITSP Constructs, Functional Groups, Information Models, HITSP Advanced Search, HITSP Help, HITSP Quick User Guide, HITSP Reference Files, and USHIK Technical Summary. The main content area features the HITSP logo and a mission statement. A red arrow points from the 'Related Links' section, which contains a link to 'HITSP Library', to the 'HITSP Library' link in the sidebar.

To reference a document not registered in USHIK, a link has been provided in USHIK (Related links: HITSP Library) which will direct you to <http://www.hitsp.org>. If you would like the referenced document added to USHIK, please use the “Give us your feedback” form online.

Reporting Error/Discrepancies; or requesting further assistance:

The screenshot shows the footer of the USHIK website. On the left, there is a logo for AHRQ and a button labeled 'GIVE YOUR FEEDBACK' with a red arrow pointing to it. The footer also contains navigation links for 'HITSP Portal Home', 'Freedom of Information Act', 'Privacy Policy', 'U.S. Department of Health & Human Services', 'The White House', and 'USA.gov: The U.S. Government's Official Web Portal'. A disclaimer is present, stating that the source organization is the authoritative source for data element information and that contact information should be used to navigate to the source organization's point of contact. The version number 'USHIK v2.4.3.2' is also displayed.

The USHIK staff welcomes input and takes pride in providing accurate information. If at any time, an error is rendered, a discrepancy identified or you are in need of additional assistance, please use the “[Give your feedback](#)” link at the bottom left of each page in USHIK. A USHIK representative will contact you as soon as possible to assist your further needs or to acknowledge the error and report as soon as it has been fixed.

[Learning More about the USHIK Application:](#)



To learn more about USHIK, inquire via the **“Give your feedback”** link at the bottom left of each USHIK page, which provides a “request for information” option. If you are interested in data registration and/or need direct access to the USHIK Administrative Leadership contact the individuals listed below:

- [J. Michael Fitzmaurice, Ph.D., FACMI](#)
P: 1-301-427-1227
F: 1-301-427-1210
E: michael.fitzmaurice@ahrq.hhs.gov
- [Robin A. Barnes, Nurse Informaticist](#)
P: 1-910 423-0189
F: 1-910 423-0189
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