

#### Indiana HRET HIIN Improvement Calculator Demo Webinar January 4, 2018 3 – 4 p.m. ET



- A tool to assist with data analysis
  - Individual measure
  - Harm Across the Board: method of looking at the number of Harms/Discharge
  - Utilizes data from HRET's Comprehensive Data System (CDS)



- Instructions for the improvement calculator are embedded in the tool and on HRET's website
- It is recommended to use Excel 2010 and above for best results
- Currently, we are using version 4.2

Fellowship

Informational Call #3



patient harm are not fully understood, the increase in safety occurred during a

Andrew Shin

ashinovation

# Go to HRET's home page at <u>www.hret-hiin.org</u> and select Data

Indiana Patient

Safety Center of the Indiana Hospital Association



#### at reducing patient harm

#### Submitting Data

If your hospital will be joining the HRET HIIN NHSN group to confer rights to the data from NHSN, the NHSN Group Instructions will guide you through this process.

The Comprehensive Data System is the secure, web-based data collection and reporting system that hospitals use for HIIN. For instructions on how to set up user accounts in CDS, please see the guide for hospitals that are <u>NEW</u> to CDS, and another guide for <u>RETURNING</u> hospitals. These Quick Start Guides cover logging into CDS and walk you through how to set up user accounts for your hospital.

For instructions on how to perform data entry in CDS, please see the CDS Data Entry Quick Start Guide.

#### Using Data to Improve

To learn how to view and track your data to drive improvement by using the Comprehensive Data System's (CDS) reporting features, please see the CDS Report Guide.

#### Tracking Safety Across the Board

The HIIN Improvement Calculator enables hospitals to use data collected via the Comprehensive Data System (CDS) to calculate, and track, a "total harm per discharge" rate in pursuit of safety across the board. This Excelbased tool provides a simple end-user experience and not only calculates harms per discharge, but also calculates and displays harms prevented, lives saved, and costs saved. Users should take the time to review the "Instructions" for the improvement calculator.



### Instructions and HIIN Improvement Calculator data tutorials are available



American Hospital Association。	Hospital Improvement Innovation Network	HEALTH RESEARCH EDUCATIONAL TRU		
Engage	Home About - Topics - Data Events Resources -	Search Q		
Join Our HIIN	HOME / RESOURCES			
Fellowships	HIIN Improvement Calculator Published: November 29, 2017 by American Hospital Association/Health Research & Educational Trust	Topics No filter		
rnysicians	Topic: Data Collection and Informatics   Resource type: Toolkit	Date Published		
SNAP	The HIIN Improvement Calculator (IC) Version 4.2 is one of many tools provided	No filter  V		
LISTSERV®	Data System (CDS). The updated version 4.2 includes updated Year 2 targets,			
UP Campaign	among other updates listed in the "Release Notes" tab. Please click the link below to visit this page to download or view this resource.	Search		
News You Can Use				
Tweets by @HRETtweets				
HRET HRET				

- Download Improvement Calculator from: (<u>http://www.hret-</u> <u>hiin.org/resources/display/hiin-</u> <u>improvement-calculator</u>)
- Click on "Download Now" to download Improvement Calculator tool





Basic Items - This report was developed to support extracting data from this system to use in the Improvement Calculator. The table below shows the data that have been entered for your organization(s), and is limited to records where data was collected (valid numerators and denominators). To limit (filter) results, you may enter criteria in the boxes just below the column headers. Click the Basic Items' help button on the top right of the table for further instructions. Click "Export to Excel" to download your results - be sure to indicate whether you want All Data or Filtered Data Only. This data was last refreshed on 1/3/2018 #48:2.2 M CST.

Organization Name	HRET_OrganizationID	State	Timeframe	Start Date	End Date	HRET_MeasureID	Numerator
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		IN	Monitoring	10/01/2016	10/31/2016	HIIN-ADE-1b	
		IN	Monitoring	11/01/2016	11/30/2016	HIIN-ADE-1b	
		IN	Monitoring	12/01/2016	12/31/2016	HIIN-ADE-1b	
		IN	Monitoring	01/01/2017	01/31/2017	HIIN-ADE-1b	
		IN	Monitoring	02/01/2017	02/28/2017	HIIN-ADE-1b	
		IN	Monitoring	03/01/2017	03/31/2017	HIIN-ADE-1b	
		IN	Monitoring	04/01/2017	04/30/2017	HIIN-ADE-1b	
		IN	Monitoring	05/01/2017	05/31/2017	HIIN-ADE-1b	
		IN	Monitoring	06/01/2017	06/30/2017	HIIN-ADE-1b	
		IN	Monitoring	07/01/2017	07/31/2017	HIIN-ADE-1b	
		IN	Monitoring	08/01/2017	08/31/2017	HIIN-ADE-1b	
		IN	Monitoring	09/01/2017	09/30/2017	HIIN-ADE-1b	
		IN	Monitoring	10/01/2017	10/31/2017	HIIN-ADE-1b	
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Right-click on the downl Select 'Properties', Click on the 'General' ta	oaded file, b,						

- Go to (<u>https://www.hretcds.org/</u>) and login
- Click on "Reports" then "Basic Items"
  - See image for assistance identifying
- Your hospital's information should appear at this point
- Make sure "Export All Data" is highlighted on the bottom left, then click "Export to Excel" to gather all of your hospital's data



	A	В	С	D	E	F	G	н	1	J	K
1	Organization Name	HRET_OrganizationID	State	Timeframe	Start Date	End Date	HRET_MeasureID	Numerator	Denominator	Reporting Entity	HRET_ReportingEntityID
2	Hospital A			Deceline	1/1/2015	12/31/2015	HIIN-ADE-1a	9	801	Hospital A	HIIN a
3	Hospital A	HIIN a	IN	Monitoring	10/1/2016	10/31/2016	HIIN-ADE-1a	2	69	Hospital A	HIIN a
4	Hospital A	HIIN a	IN	Monitoring	11/1/2016	11/30/2016	HIIN-ADE-1a	0	88	Hospital A	HIIN a
5	Hospital A	HIIN a	IN	Monitoring	12/1/2016	12/31/2016	HIIN-ADE-1a	0	40	Hospital A	HIIN a
6	Hospital A	HIIN a	IN	Monitoring	1/1/2017	1/31/2017	HIIN-ADE-1a	3	51	Hospital A	HIIN a
7	Hospital A	HIIN a	IN	Monitoring	2/1/2017	2/28/2017	HIIN-ADE-1a	0	88	Hospital A	HIIN a
8	Hospital A	HIIN a	IN	Monitoring	3/1/2017	3/31/2017	HIIN-ADE-1a	5	73	Hospital A	HIIN a
9	Hospital A	HIIN a	IN	Monitoring	4/1/2017	4/30/2017	HIIN-ADE-1a	0	67	Hospital A	HIIN a
10	Hospital A	HIIN a	IN	Monitoring	5/1/2017	5/31/2017	HIIN-ADE-1a	0	77	Hospital A	HIIN a
11	Hospital A	HIIN a	IN	Monitoring	6/1/2017	6/30/2017	HIIN-ADE-1a	0	32	Hospital A	HIIN a
12	Hospital A	HIIN a	IN	Monitoring	7/1/2017	7/31/2017	HIIN-ADE-1a	0	30	Hospital A	HIIN a
13	Hospital A	HIIN a	IN	Monitoring	8/1/2017	8/31/2017	HIIN-ADE-1a	0	36	Hospital A	HIIN a
14	Hospital A	HIIN a	IN	Monitoring	9/1/2017	9/30/2017	HIIN-ADE-1a	0	38	Hospital A	HIIN a
15	Hospital A	HIIN a	IN	Monitoring	10/1/2017	10/31/2017	HIIN-ADE-1a	0	21	Hospital A	HIIN a
16	Hospital A	HIIN a	IN	Monitoring	11/1/2017	11/30/2017	HIIN-ADE-1a	1	59	Hospital A	HIIN a
17	Hospital A	HIIN a	IN	Baseline	1/1/2015	12/31/2015	HIIN-ADE-1b	33	2104	Hospital A	HIIN a
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19	Hospital A	HIIN a	IN	Monitoring	11/1/2016	11/30/2016	HIIN-ADE-1b	0	242	Hospital A	HIIN a
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22	Hospital A	HIIN a	IN	Monitoring	2/1/2017	2/28/2017	HIIN-ADE-1b	2	95	Hospital A	HIIN a
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27	Hospital A	HIIN a	IN	Monitoring	7/1/2017	7/31/2017	HIIN-ADE-1b	3	85	Hospital A	HIIN a
28	Hospital A	HIIN a	IN	Monitoring	8/1/2017	8/31/2017	HIIN-ADE-1b	0	100	Hospital A	HIIN a
29	Hospital A	HIIN a	IN	Monitoring	9/1/2017	9/30/2017	HIIN-ADE-1b	2	95	Hospital A	HIIN a
30	Hospital A	HIIN a	IN	Monitoring	10/1/2017	10/31/2017	HIIN-ADE-1b	0	110	Hospital A	HIIN a
31	Hospital A	HIIN a	IN	Monitoring	11/1/2017	11/30/2017	HIIN-ADE-1b	3	117	Hospital A	HIIN a
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33	Hospital A	HIIN a	IN	Monitoring	10/1/2016	10/31/2016	HIIN-ADE-1c	0	413	Hospital A	HIIN a
34	Hospital A	HIIN a	IN	Monitoring	11/1/2016	11/30/2016	HIIN-ADE-1c	1	414	Hospital A	HIIN a
35	Hospital A	HIIN a	IN	Monitoring	12/1/2016	12/31/2016	HIIN-ADE-1c	0	491	Hospital A	HIIN a
36	Hospital A	HIIN a	IN	Monitoring	1/1/2017	1/31/2017	HIIN-ADE-1c	0	406	Hospital A	HIIN a
37	Hospital A	HIIN a	IN	Monitoring	2/1/2017	2/28/2017	HIIN-ADE-1c	0	374	Hospital A	HIIN a
38	Hospital A	HIIN a	IN	Monitoring	3/1/2017	3/31/2017	HIIN-ADE-1c	0	517	Hospital A	HIIN a
39	Hospital A	HIIN a	IN	Monitoring	4/1/2017	4/30/2017	HIIN-ADE-1c	0	422	Hospital A	HIIN a

- Click on Cell A2 (Row: 2 Column: A)
- Select all data from this cell (Can do this by holding down Ctrl + Shift + End)
- After all of the information is highlighted, copy this data (can do by Ctrl + C or right click copy) (make sure the headers aren't included in the copied information)



#### Instruction Manual: HIIN Improvement Calculator Version: 4.2 Last Updated: 11/29/2017

#### We highly recommed using Excel 2010 or later. Not all features of the IC will work with prior versions of Excel.

The HIIN Improvement Calculator (IC) is one of many tools provided by HRET to help participating hospitals utilize the data submitted to the Comprehensive Data System (CDS), in support of the HIIN.

The IC translates raw HIIN data into meaningful information. The main feature of the IC is that it calculates 'improvement', comparing results from the monitoring period to baseline values for several HIIN evaluation measures. It also provides a graphical display of the results for each measure.

We have developed this tool in Excel in order to empower users to customize the tool as they desire. For example, if you wish to do something simple like changing color schemes, you may do this and save your own version of the IC with this change incorporated. Similarly, if you wish to remove some measures from the summary table that you do not report, you can do this in a blank version of the IC and save for your future use. Just make sure you periodically check back to make sure you have a recent version of the IC and are aware of fixes with new versions.

To get started, please review the Users Guide on our website!



			В	С	D	E
1	Organization Name		HRET_OrganizationID	State 🝷	Timeframe 🔻	Start Date 🝷 I
4	Paste Data Starting in this cell include headings and only incl	<u>, overwriting this text1</u> Do not ude columns A thru K. This to load please be patient	You likely will have to refresh about 3 times. The first time you may get a message asking if you wish to replace data in the dashboard. Select "Yve."			

- After copying data from your hospital, open the Improvement Calculator and click on the Data Load tab on the bottom
- Click on the cell where it says "Paste Data Starting in this cell" and paste the copied data



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- Your hospital's data should appear in the table following step 4
- From here, click the "Refresh All" button on the top of the screen
- This process may take up to 5 minutes for completion depending on the amount of data being submitted
- Once the data points appear, click on the "Summary Table" tab on the bottom of the screen

## Final-Summary Table





- This tab shows the goal progressions of the quality measures within the HIIN Project
- If data doesn't appear, refresh the data at the same location as the previous slide

### Additional Tabs - Dashboard





- This tab allows the user to visualize the trends of measures and how hospitals are doing
- It breaks down Measure rate, Harms Prevented, Rate per Discharge, and Lives Saved
- Filters allow the user to select specific measures, or incorporate multiple measures to visualize

### Summary Table per Discharge





- This table shows information such as "lives saved" and "costs avoided"
- Helps show the immediate impact made by hospitals by their work with reducing harms
- These numbers are defined on the next "References" tab

### References



internet culculator. References	•		
ost Per Harm References			
Harm	Cost per Case (Study Year USD)	AHRQ Reference	
entral Line-Associated Bloodstream Infection (CLABSI)	\$17,000 (2009)	CDC Vital Signs- Central Line Associated Blood Stream Infections- US 2001, 2008, 2009. March 3, 2011 MMWR (e-release March 1, 2011). http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6008a4.htm?s _cid=mm6008a4_w	
enous Thromboembolism (VTE) (post-surgery)	\$8,000 (2004)	Spyropoulos AC, Lin J. Direct medical costs of venous thromboembolism and subsequent hospital readmission rates: an administrative claims analysis from 30 managed care organizations. J Manag Care Pharm. 2007 Jul-Jul;21(3)(4):57-86. http://www.ncbi.nlm.nlh.gov/pubmed/17672809 Maynard G, Stein J. Preventing hospital-acquired venous thromboembolism: Qualid cor effective quality improvement. Prepared by the Society of Hospital Medicine. AIRQ Publication No. 80:073; Rockville, MD- Agency for Healthcare Research and Quality. August 2086. http://www.ahrn.gov/qual/vguide/	
ressure Ulcer	\$17,000 (2009)	Federal Register: April 30, 2008 (Volume 73, Number 84). Centers for Medicare and Medicaid Services. Medicare Program: Proposed Changets to the Hospital Inpatient Prospective Payment Systems and Fixed Year 2009 Res. 2328–2338 (2014). 11531. http://www.ncbi.nlm.nih.gov/pubmed/19827228	
urgical Site Infection (SSI)	\$21,000 (2007)	CDC (Scott, RD), The Direct Medical Costs of Healthcare-Associated Infections in U.S. Hospital and the Benefits of Prevention. March 2009. Available at http://www.cdc.gov/ncidod/dhqp/pdf/Scott_CostPaper.pdf	
entilator-Associated Pneumonia	\$21,000 (2007)	CDC [Scott, RD], The Direct Medical Costs of Healthcare-Associated Infections in U.S. Hospital and the Benefits of Prevention. March 2009. Available at http://www.cdc.gov/ncidod/dhqp/pdf/Scott_CostPaper.pdf	
atheter-Associated Urinary Tract Infection (CAUTI)	\$1,000 (2007)	CDC (Scott, RD), The Direct Medical Costs of Healthcare-Associated Infections in U.S. Hospital and the Benefits of Prevention. March 2009. Available at http://www.cdc.gov/ncidod/dhqp/pdf/Scott_CostPaper.odf	

- Describes in more detail the dollar amounts for each harm and mortality rates for each measure
- Shows where each number was derived and refers to articles that contributed to each measures' harm dollar amount and mortality rate

## Total Harms per Discharge





- Summarizes the number of Harms prevented per 1000 discharges
- Table on the top shows the costs avoided and % improvement
- Table on the right shows harms and discharges broken down by month
- Graph shows hospital line in blue, baseline of HIIN project for the hospital in orange, and the goal improvement rate in green line

## Methods



Methous							
Dashboard:							
The Dashboard includes graphics showing t	ne measure rate, measure	e rate per discharge, harms	prevented, and lives sav	ed for selected mea	sures.		
Measure Rate: Monthly Numerator / Mont	hly Denominator						
The Measure Rate uses the clinically relevar	it denominator for each m	neasure. See the HRET End	cyclopedia of Measures fr	or detailed descripti	ons of each measure	£.	
The monthly baseline values are calculated	by dividing the reported r	numerator and denominate	or by the number of repo	rted baseline month	15.		
Values for the Measure Rate shown in the g	raphic are also shown in t	the table along with numer	ator and denominator va	lues for each month	L		
Measure Rate per Discharge: Monthly Num	erator / Monthly Dischar	ges					
Discharges are reported as the denominato	r for the 30 day readmissi	ion measure.					
If 30 day readmission values are not reported	d for a given month, rate	s per discharge cannot be	calculated for any other r	neasures.			
Harms Prevented: Monthly baseline rate pe	er discharge for baseline p	period multiplied with curre	ent month discharges, mi	nus current harms			
The number of harms prevented is the diffe	rence between the actual	I harms that occurred each	n month and those that h	pothetically would	have occurred if the	re had been no chang	te since baseline.
Lives Saved: Harms Prevented per Discharg	e * Mortality Rate						
Mortality rates were determined based on i	eview of clinical literature	e. For details see the Refere	ences tab.				
Summary Table:							
The Summary Table tab shows the baseline	values and progress for a	measures.					
Progress is shown for the current (most rec	ently reported) month as	well as the year-to-date su	m of all reported values.				
The Summary Table rates are based on the	clinically meaningful deno	minators for each measure	e.				
Data suppression and inclusion:							
Data suppression and inclusion: If data are reported for baseline or monitor	ing periods but are not su	fficient for the calculation	of progress on a measure	, all values (includin	g reported values) a	re suppressed so that	overall totals are uneffected
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- Describes methodology of each column in the tabs show in the Improvement Calculator
- Explains definition of graphs in tabs
- Many different nuances in tables but contain useful information for presentations or visualizations

## Questions?



- Specific or general, let us know your HIIN Calculator questions so we can help
- View our updated 2018 Data Submission Calendar <u>https://www.ihaconnect.org/Resources/Public/Patient</u> <u>Safety/HIIN/2018 Data Submission Calendar.pdf</u>

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