

#### 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



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ellowships	HIIN Improvement Calculator	Topics No filter	~
Physicians	Published: November 29, 2017 by American Hospital Association/Health Research & Educational Trust	Resource Type No filter	⊲
	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	- To mean	~
LSTSERV®	by HRET to help member hospitals utilize the data stored in the Comprehensive Data System (CDS). The updated version 4.2 includes updated Year 2 targets,	Keyword Search	7
JP 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	Download Nov     O Download Instructions		-

- 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	Baseline	01/01/2015	12/31/2015	HIIN-ADE-1b	
		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	
		IN	Monitoring	11/01/2017	11/30/2017	HIIN-ADE-1b	
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port to Excel Export All Data Export Filtered Data Onl	ly						
ase note: If you open an Ex	cel export file and see an	empty g	ray screen, p	please try the	following:		
<ul> <li>Right-click on the downl</li> <li>Select 'Properties',</li> <li>Click on the 'General' ta</li> <li>If you see a security me</li> </ul>							

- 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



1	A	В	С	D	E	F	G	н	1	J	К
1	Organization Name	HRET_OrganizationID	State	Timeframe	Start Date	End Date	HRET_MeasureID	Numerator	Denominator	Reporting Entity	HRET_ReportingEntityID
2	Hospital A			Deseline	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
1	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
18	Hospital A	HIIN a	IN	Monitoring	10/1/2016	10/31/2016	HIIN-ADE-1b	1	258	Hospital A	HIIN a
9	Hospital A	HIIN a	IN	Monitoring	11/1/2016	11/30/2016	HIIN-ADE-1b	0	242	Hospital A	HIIN a
20	Hospital A	HIIN a	IN	Monitoring	12/1/2016	12/31/2016	HIIN-ADE-1b	2	175	Hospital A	HIIN a
21	Hospital A	HIIN a	IN	Monitoring	1/1/2017	1/31/2017	HIIN-ADE-1b	1	107	Hospital A	HIIN a
22	Hospital A	HIIN a	IN	Monitoring	2/1/2017	2/28/2017	HIIN-ADE-1b	2	95	Hospital A	HIIN a
23	Hospital A	HIIN a	IN	Monitoring	3/1/2017	3/31/2017	HIIN-ADE-1b	0	104	Hospital A	HIIN a
24	Hospital A	HIIN a	IN	Monitoring	4/1/2017	4/30/2017	HIIN-ADE-1b	2	112	Hospital A	HIIN a
25	Hospital A	HIIN a	IN	Monitoring	5/1/2017	5/31/2017	HIIN-ADE-1b	2	108	Hospital A	HIIN a
26	Hospital A	HIIN a	IN	Monitoring	6/1/2017	6/30/2017	HIIN-ADE-1b	0	99	Hospital A	HIIN a
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		HIIN-ADE-1b	0	100	Hospital A	HIIN a
29	Hospital A	HIIN a	IN	Monitoring	9/1/2017		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
32	Hospital A	HIIN a	IN	Baseline	7/1/2015		HIIN-ADE-1c	9		Hospital A	HIIN a
33	Hospital A	HIIN a	IN	Monitoring	10/1/2016	10/31/2016	HIIN-ADE-1c	0		Hospital A	HIIN a
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35	Hospital A	HIIN a	IN			12/31/2016		0		Hospital A	HIIN a
36	Hospital A	HIIN a	IN	Monitoring			HIIN-ADE-1c	0		Hospital A	HIIN a
	Hospital A	HIIN a	IN	Monitoring			HIIN-ADE-1c	0		Hospital A	HIIN a
38	Hospital A	HIIN a	IN	Monitoring	3/1/2017		HIIN-ADE-1c	0		Hospital A	HIIN a
39	Hospital A	HIIN a	IN	Monitoring			HIIN-ADE-1c	0		Hospital A	HIIN a
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- 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!



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

- 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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Hospital A	HIIN a	IN	Monitoring	6/1/2017	6/30/2017	HIIN-ADE-1a	0	3	2 Hospital A	HIIN a
Hospital A	HIIN a	IN	Monitoring	7/1/2017	7/31/2017	HIIN-ADE-1a	0	3	Hospital A	HIIN a
Hospital A	HIIN a	IN	Monitoring	8/1/2017	8/31/2017	HIIN-ADE-1a	0	3	5 Hospital A	HIIN a
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Hospital A	HIIN a	IN	Baseline	1/1/2015	12/31/2015	HIIN-ADE-1b	33	210	Hospital A	HIIN a
Hospital A	HIIN a	IN	Monitoring	10/1/2016	10/31/2016	HIIN-ADE-1b	1	25	B Hospital A	HIIN a
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Hospital A	HIIN a	IN	Monitoring	4/1/2017	4/30/2017	HIIN-ADE-1b	2	112	2 Hospital A	HIIN a
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Hospital A	HIIN a	IN	Monitoring	6/1/2017	6/30/2017	HIIN-ADE-15	0	9	9 Hospital A	HIIN a
Hospital A	HIIN a	IN	Monitoring	7/1/2017	7/31/2017	HIIN-ADE-1b	3	8	5 Hospital A	HIIN a
Hospital A	HIIN a	IN.	Monitoring	8/1/2017	8/31/2017	HIIN-ADE-1b	0	10	Hospital A	HIIN a
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Hospital A	HUN	IN	Monitoring	12/1/2016	12/31/2016	HIIN-ADE-1c	0	49	1 Hospital A	HIIN a
Hospital A	Hill	IN	Monitoring	1/1/2017	1/31/2017	HIIN-ADE-1c	0	40	5 Hospital A	HUN a
Hospital A	HIN	IN	Monitoring	2/1/2017	2/28/2017	HIIN-ADE-1c	0	37-	4 Hospital A	HIIN a
Hospital A	HIR	IN	Monitoring	3/1/2017	3/31/2017	HIIN-ADE-1c	0	51	7 Hospital A	HIIN a

- 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



Cost Per Harm References			
Harm	Cost per Case (Stud Year USD)	y AHRQ Reference	
Central 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	
Venous Thromboembolism (VTE) (post-surgery)	\$8,000 (2004)	Spyropoulos AC, Lin J. Direct medical costs of venous thromboembolium and subsequent hospital readmission rates: an administrative claims analysis from 30 managed care organizations. J Manag Care Pharma 2007 Jul Augu216(4):475-86. http://www.ncbi.nlm.nih.gov/pubmed/17672809 Maynard G, Stein J. Preventing hospital-acquired venous thromboembolium: Rayled or effective quality improvement. Prepared by the Society of Hospital Medicine. AHRD Aublication No. 08-0075. Rockville, MD. Agency for Healthcare Research and Cuality. August 2008. http://www.ahr.qav/qual/vfaujde/	
Pressure Ulcer	\$17,000 (2009)	Federal Register: April 30, 2008 (Volume 73, Number 84). Centers for Medicare and Medicaid Services. Medicare Program: Proposed Changes to the Hospital Inpatient Prospective Payment Systems and Ficaul Vera: 2008 Res. 2328–2338 (doi:10.116). http://www.ncbi.nlm.nih.gov/pubmed/19827228	
Surgical 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	
Ventilator-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	
Catheter-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.pdf	

- 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



Methods							
Dashboard:							
The Dashboard includes graphics showing the	ne measure rate, measure	e rate per discharge, harm	s prevented, and lives sa	ved for selected me	asures.		
Measure Rate: Monthly Numerator / Month	hly Denominator						
The Measure Rate uses the clinically relevan	it denominator for each m	measure. See the HRET En	cyclopedia of Measures	or detailed descrip	tions of each measu	ire.	
The monthly baseline values are calculated	by dividing the reported r	numerator and denominat	tor by the number of rep	orted baseline mon	ths.		
Values for the Measure Rate shown in the g	raphic are also shown in t	the table along with nume	rator and denominator v	alues for each mon	th.		
Measure Rate per Discharge: Monthly Num	erator / Monthly Dischar	rges					
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	es per discharge cannot be	calculated for any other	measures.			
Harms Prevented: Monthly baseline rate pe	er discharge for baseline p	period multiplied with curr	rent month discharges, n	inus current harms			
The number of harms prevented is the diffe	rence between the actua	al harms that occurred eac	h month and those that	ypothetically woul	d have occurred if t	here had been no ch	ange since baseline.
Lives Saved: Harms Prevented per Discharge	e * Mortality Rate						
Mortality rates were determined based on r		e. For details see the Refer	rences tab.				
Summary Table:							
The Summary Table tab shows the baseline	values and progress for a	measures.					
Progress is shown for the current (most reci			um of all reported values				
The Summary Table rates are based on the							
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Data suppression and inclusion:							
	ing pariade but are not ou	ifficient for the calculation	of prograts on a maacu	e, all values (includ	ing reported values	are suppressed so t	that overall totals are uneffected
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If data are reported for baseline or monitori Values that are suppressed appear as "*". Ti	his happens when insuffic	cient data are available for					
If data appression and inclusion. If data are reported for baseline or monitori Values that are suppressed appear as **". Ti However, it is possible to turn off the data s It is also possible to customize the calculatio	his happens when insuffic uppression in order to vie	cient data are available for ew the data as reported.	baseline or monitoring	eriods and improv	ement cannot be ca		
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If data are reported for baseline or monitor Values that are suppressed appear as "*". T However, it is possible to turn off the data s It is also possible to customize the calculatio	his happens when insuffic uppression in order to vie in of total harms to elimin columns C and D. The "Y" i	cient data are available for ew the data as reported. hate measures that do not in column C indicates that tl	baseline or monitoring apply or add measures o his measure row is suppre	eriods and improv f interest to you. Se sec The "Y" in colu	ement cannot be ca e details below.	lculated.	d in the Total Harms calculation.
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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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