

# KHC Hospital Improvement Innovation Network *Data Office Hours*

November 30, 2016



623 SW 10<sup>th</sup> Ave. • Topeka, KS 66612 • (785) 235-0763 • www.khconline.org



KHC HIIN Data Office Hours

November 30, 2016

## Agenda

- Welcome and Introduction
- Goals
- Partners
- Measurement
- Data Expectations
- Data Systems
- Measures in Detail
- FAQs and Questions
- Next Steps
- Upcoming Events
- Contact Us



**Rob Rutherford**  
Senior Health Care Data Analyst  
Kansas Healthcare Collaborative  
RRutherford@khconline.org  
(785) 235-0763 x1326

## Chat Questions

Please type any questions you have in our chat - time permitting we'll have take phone questions at the end

## Bold Aims

**Two base years to reduce all-cause inpatient harm by 20% and readmissions by 12%.**

1. Be in action to support your patients and their families by committing to this project
2. Work to reduce harm *across the board*
3. Learn together by sharing your hospital stories – successes and opportunities
4. Data is the foundation of all improvement at the unit level, hospital level, state and national level

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## Resources

KHC HIIN Measures Dictionary  
[www.khconline.org/files/KHC-HIIN-Measures-Dictionary.pdf](http://www.khconline.org/files/KHC-HIIN-Measures-Dictionary.pdf)

KHC NHSN Group Instructions  
[www.khconline.org/files/Instructions to Join KHC HIIN NHSN Group.pdf](http://www.khconline.org/files/Instructions%20to%20Join%20KHC%20HIIN%20NHSN%20Group.pdf)  
[www.khconline.org/files/Instructions to Update KHC HIIN NHSN Group.pdf](http://www.khconline.org/files/Instructions%20to%20Update%20KHC%20HIIN%20NHSN%20Group.pdf)

HIIN Kickoff Webinar Recordings  
[www.khconline.org/khc-hospital-improvement-and-innovation-network](http://www.khconline.org/khc-hospital-improvement-and-innovation-network)

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## Measurement Philosophy

You can only change what you measure!

- Don't let perfect be the enemy of good
- Start where you can
- Share the load
- Be consistent

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## Measure Construction

- Numerator: Number of events
- Denominator: Opportunities for event to occur (risk).

### **Example: Falls Measure**

- Numerator – Number of Falls (Events)
- Denominator – Patient Days (Each day a patient is in the hospital there is some risk of a fall)
- Exclusions

## Measurement Collection

If you're not seeing any events you may be doing fabulously!

- But check to see your data collection is working as intended
- E.g. hypoglycemia not being reported as an adverse event because it's a "known side-effect" of insulin

## Measure Reporting

- NHSN is preferred for HAI measures – CDC protocol is the gold standard, and it's a more accurate abstraction
- Duplicate reporting is not necessary – don't make more work for you or your team
- Where possible, share reporting duties amongst team members

## Measure Baseline Periods

- Preferred: Calendar Year 2014 or 2015 (varies)
- Alternate: Oldest 12-, 9-, 6-, or 3-month consecutive period prior to Oct 2016
- If measure was not tracked prior to HIIN, report *monthly* as early as possible beginning in October 2016.
- Baseline is used to track progress!

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## Data Expectations

- Reporting Schedule
- Program Milestones

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## Kansas HIIN 2016-2017 Data Submission Schedule

Outcome & Process Measures for HACs occurring in:	Readmissions for index discharges in, and SSI for procedures performed in:	Submission Due
October, 2016	September, 2016	November 30, 2016
November, 2016	October, 2016	December 31, 2016
December, 2016	November, 2016	January 31, 2017
January, 2017	December, 2016	February 29, 2017
February, 2017	January, 2017	March 31, 2017
March, 2017	February, 2017	April 30, 2017
April, 2017	March, 2017	May 31, 2017
May, 2017	April, 2017	June 30, 2017
June, 2017	May, 2017	July 31, 2017
July, 2017	June, 2017	August 30, 2017
August, 2017	July, 2017	September 30, 2017

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## Current Focus

- Hospital Enrollment
- Needs Assessment Completed
- Baseline Data Received
- Monthly Monitoring Data Started

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## Baseline Reports will Be Provided (Sample from HEN 2.0)



**Community Hospital**  
HEN 2.0 Baselines Report  
March 10, 2016

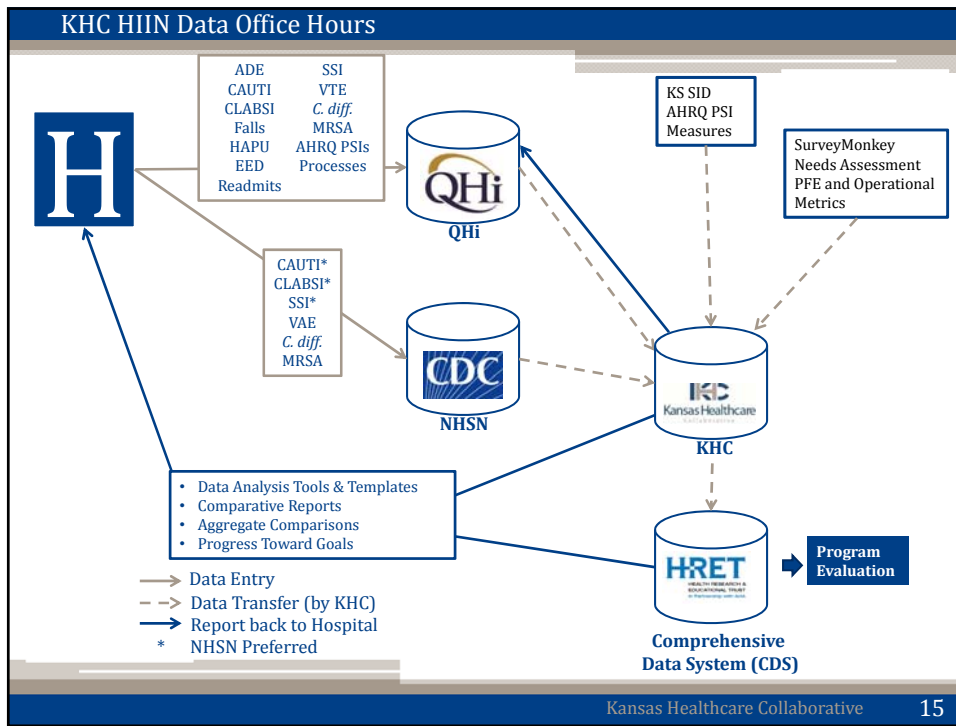
The following table displays the current status of the core evaluation measures for HEN 2.0 for your facility. The baseline time periods were determined from the preferred baseline periods specified in the Kansas HEN 2.0 Measure Dictionary. The baselines below will be used to identify your target level of performance for each measure for HEN 2.0.

Measures marked "N/A" are not applicable for your facility. If the numerator and denominator are marked "No data", we do not have baseline data for that measure from your facility. Missing data should be provided by Friday, January 22. For questions, please contact Rob Rutherford at (785) 235-0763 or email [rrutherford@khconline.org](mailto:rrutherford@khconline.org).

**HEN 2.0 Evaluation Measures**

Area	Measure	Baseline Period	Num.	Den.	Source
ADE	Naloxone Administration	01/2013 - 12/2013	0	21	QHI
	Hypoglycemia in Inpatients Receiving Insulin	01/2014 - 12/2014	1	6	QHI
	Excessive Anticoagulation with Warfarin - Inpatients	01/2014 - 12/2014	5	8	QHI
CAUTI	CAUTI rate per 1,000 Catheter Days ICUs + Other Inpatient Units	01/2015 - 09/2015	1	24	QHI
	CAUTI rate per 1,000 Catheter Days - ICUs	No ICU	N/A	N/A	NHSN
	Catheter Utilization Rate - ICUs + Other Inpatient Units (excluding NICUs)	01/2015 - 09/2015	29	143	QHI
	Catheter Utilization Rate - ICUs excluding NICUs	No ICU	N/A	N/A	NHSN

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## Data Systems

- NHSN and QHi are used for a number of different programs
  - EDTC and MBQIP
  - CMS PQRS
  - HIIN

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## QHi Addendum for HIIN

Return signed form to:  
Stuart Moore  
QHi Project Manager  
Kansas Hospital Association  
215 S.E. 8<sup>th</sup> Ave.  
Topeka, KS 66603-3906

or FAX to:  
785-233-6955

ADDENDUM  
QHI HOSPITAL INFORMATION SHARING AGREEMENT  
Kansas Healthcare Collaborative  
Hospital Improvement Innovation Network

(Participating Hospital) is a collaborating partner with the Kansas Healthcare Collaborative (KHC) in the Health Research and Educational Trust (HRET) Hospital Improvement Innovation Network (HIIN), and data submission is a requirement for hospital participation. During the term of the KHC HIIN program and for as long as Participating Hospital continues to participate in the KHC HIIN, Participating Hospital will submit timely data for all eligible topics according to the definitions and parameters of the identified measures for this national quality improvement and patient safety program supported by the Centers for Medicare and Medicaid Services (CMS) Center for Clinical Standards and Quality (CCSQ).

WHEREAS, Quality Health Indicators (QHI) is a data collection and benchmarking system selected by KHC for the collection and reporting of data for the KHC HIIN; and

WHEREAS, Participating Hospital has previously signed a QHI Information Sharing Agreement (Agreement) with the Kansas Hospital Education & Research Foundation (KHERF);

THEREFORE, this Addendum to the Agreement between Participating Hospital and KHERF allows data submitted to QHI by Participating Hospital, as well as administrative data from the State Inpatient Database, for all measures addressed by the KHC HIIN program to be shared, transferred, imported and reported on Participating Hospital's behalf with and among the KHC and its subcontractors, Kansas Hospital Association (KHA), AHA/NHET, CCSQ, and their respective data systems. No patient level data will be collected by QHI.

In addition, please "opt in" by checking the boxes below to allow the following permissions for the KHC HIIN to serve your facility:

- This hospital gives permission to KHC to routinely upload to QHI a copy of relevant hospital-acquired infection (HAI) data submitted to the Centers for Disease Control and Prevention's National Healthcare Safety Network (NHSN). Permission to upload the data will facilitate greater use of the comparison, benchmarking and reporting tools available in QHI for the participating hospital;
- This hospital gives permission to KHC to share hospital-identifiable HIIN data with the Kansas Quality Improvement Organization, the Kansas Foundation for Medical Care (KFMC), in support of the QIN-QIO 11<sup>th</sup> Scope of Work. This permission will allow greater flexibility and ability for KHC and KFMC to work in concert towards shared efforts in improving patient safety.

This stated permission is supplemental to current and future information sharing agreements between KHERF and Participating Hospital. No modifications to this Addendum shall be binding unless stated in writing and signed by both parties.

<small>KANSAS HOSPITAL EDUCATION AND RESEARCH FOUNDATION</small>	<small>PARTICIPATING HOSPITAL</small>
<small>Melissa L. Hungerford, CEO</small>	<small>Signature of Hospital Administrator</small>
<small>Date</small>	<small>Date</small>

Please return signed agreement by mail, email or fax to: Stuart Moore, QHI Project Manager, Kansas Hospital Association, 215 S.E. 8<sup>th</sup> Ave., Topeka, KS 66603-3906, FAX: 785-233-6955, Email: [DMoore@kha.org](mailto:DMoore@kha.org)

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## QHi Addendum

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- Screen Sharing
  - Measure Selection/Deselection
  - Entering Data
  - Basic Reports

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- ADE
- CAUTI
- CLABSI
- Falls
- OB
- PrU
- Readmits
- SSI
- VTE
- MRSA
- *C. diff.*
- Sepsis
- AHRQ PSIs
- Culture of Safety
- Process Measures

**What if I need help?**  
(Passwords, adding users, measure selection, reports, etc.)

Stuart Moore  
QHi Program Manager  
785-276-3104  
[Smooore@kha-net.org](mailto:Smooore@kha-net.org)

Sally Othmer  
Sr. Director of Data Services and Quality  
785-276-3118  
[Sothmer@kha-net.org](mailto:Sothmer@kha-net.org)

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# NHSN

- Screen Sharing
  - Reporting Plan
  - Data Extraction

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# NHSN

- CAUTI
- CLABSI
- SSI
- VAE
- *C. diff.*
- MRSA

What if I need help?

Robert Geist, MPH KDHE Health. Assoc. Infections Program 785-296-4202 <a href="mailto:RGeist@kdheks.gov">RGeist@kdheks.gov</a>	Nadyne Hagmeier, RN KS Foundation for Medical Care 800-432-0770 <a href="mailto:Nadyne.Hagmeier@area-a.hcqis.org">Nadyne.Hagmeier@area-a.hcqis.org</a>	Brenda Davis, RN KS Foundation for Medical Care 800-432-0770 <a href="mailto:Brenda.Davis@area-a.hcqis.org">Brenda.Davis@area-a.hcqis.org</a>
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NHSN technology support:  
[nhsn@cdc.gov](mailto:nhsn@cdc.gov)

The CDC has extensive training documents  
and videos here:  
[www.cdc.gov/nhsn/training/index.html](http://www.cdc.gov/nhsn/training/index.html)

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## SID/AHRQ

- Stage 3+ Pressure Ulcer Rate (Non-CAHs)
- Post-Op PE/DVT (If spec. inpatient surgeries)
- Post-Op sepsis rate (If spec. inpatient surgeries)

What if I need help?

Strongly encourage QHi reporting  
 “Backstopped” by KHC from KHA’s Inpatient Discharges

Additional details in KHC Measures Dictionary and via AHRQ:  
[www.qualityindicators.ahrq.gov/Modules/PSI\\_TechSpec\\_ICD10.aspx](http://www.qualityindicators.ahrq.gov/Modules/PSI_TechSpec_ICD10.aspx)

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## Monthly HIIN Measures

**All hospitals:**

- ADE: Anticoagulation/ Warfarin
- ADE: Hypoglycemia
- ADE: Opioids
- CAUTI Rate All Units
- Catheter Utilization Rate All Units
- Facility-wide Hospital-onset *C. difficile*
- Falls with Injury
- Facility-wide Hospital-Onset MRSA Bacteremia
- All-Cause 30 day readmissions
- All-Cause 30 day readmissions (Medicare)
- Hospital Acquired Pressure Ulcer Prevalence (Stage 2+)
- Overall Sepsis Mortality
- Hospital-Onset Sepsis Mortality
- Worker Harm Events: Patient Handling
- Worker Harm Events: Workplace Violence

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## Monthly HIIN Measures

*As applicable to hospitals:*

- Central Line Assoc. Bloodstream Infections All Unit . . . . . *place/manage CL*
- Central Line Utilization Rate All Unit . . . . . *place/manage CL*
- ICU specific CAUTI and CLABSI measures . . . . . *has an ICU*
- Pressure Ulcer Stage 3+ (AHRQ PSI-03) . . . . . *non-CAH*
- Post-Op Sepsis (AHRQ PSI-13) . . . . . *perform specified inpt. surgeries*
- Post-Op PE/DVT (AHRQ PSI-12) . . . . . *perform specified inpt. surgeries*
- Surgical Site Infec.: Colon . . . . . *perform NHSN COLO surgeries*
- Surgical Site Infec.: Abd. Hysterectomies . . . . . *perform NHSN HYST surgeries*
- Surgical Site Infec.: Total Knee Replacements . . . . . *perform NHSN KPRO surgeries*
- Surgical Site Infec.: Total Hip Replacements . . . . . *perform NHSN HPRO surgeries*
- Ventilator Associated Events (VAC/IVAC) . . . . . *use ventilators*

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## Optional Measures for Kansas

- Surgical Site Infection Rate – All NHSN Surgeries (Option 2)
- Central Line Insertion Practices\*
- Falls with or without Injury\*
- Potentially preventable VTE

\*Align with BCBS 2017 Quality-Based Reimbursement Program.  
Carry over from HEN 2.0.

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## Measures

- Monthly Reporting
- Baseline is generally the oldest and longest contiguous submission
- See the KHC HIIN Data Dictionary for complete details!

[www.khconline.org/files/KHC-HIIN-Measures-Dictionary.pdf](http://www.khconline.org/files/KHC-HIIN-Measures-Dictionary.pdf)

## ADE

### OUTCOME

Naloxone administration  
Hypoglycemia  
Excessive anticoagulation

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## HRET ADE Webinar

- Adverse Drug Events (ADE)
  - Warfarin
  - Hypoglycemia
  - Opioids

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## HRET ADE Webinar

- ADE – Warfarin
  - Numerator: Inpatients with excessive anticoagulation
  - Denominator: Patients receiving Warfarin
  - Triggers: INR >5, or INR>6, Vitamin K dispensed
  - Co-owners: Pharmacy, Lab, HIT

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## HRET ADE Webinar

- ADE – Hypoglycemia
  - Numerator: Inpatients with plasma glucose concentration of 50 mg/dl or less
  - Denominator: Patients receiving insulin or other hypoglycemic agents
  - Triggers: Low glucose levels, Dextrose 50 (D50W)
  - Co-owners: Pharmacy, Lab, HIT

## HRET ADE Webinar

- ADE – Opioids
  - Numerator: Patients treated with opioids who received Naloxone
  - Denominator: Patients receiving opioids
  - Triggers: Naloxone dispensed
  - Co-owners: Pharmacy, HIT



## Adverse Drug Events

**Q: The Warfarin measure includes “inpatients” – does this mean *any* patient in the facility?**

A: This measure is looking only at inpatients receiving Warfarin, SNF or outpatient surgeries shouldn't be counted.

**Q: Does the hypoglycemia measure include oral medications or just injectables such as insulin?**

A: It is up to the quality team at your hospital to determine which hypoglycemic agents to include in your measure. It is reasonable to limit your tracking to insulins and other injectables – but some facilities include certain oral hypoglycemic agents as well.

## Adverse Drug Events

**Q: The hypoglycemia measure uses plasma glucose, is a bedside glucometer acceptable?**

A: Yes

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# CAUTI

OUTCOME

CAUTI Rate  
CAUTI SIR (NHSN Derived)

Process

Catheter Utilization

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## Patient Inclusion (CAUTI, CLABSI)

**Q: Should swing-bed patients be included?**  
A: Yes. Any patient in any bed type that is in any inpatient unit should be included unless explicitly excluded.  
Example:  
CAUTI Rate for ICUs + Other Inpatient Units (excluding NICUs)

**Q: If I haven't been including swing-bed patients, do I need to go back and correct my data?**  
A: Consistency is the key for this current project.

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## NHSN – SIR

**Q: What is a SIR?**

A: SIR stands for standardized infection ratio where NHSN risk-adjustment is used to standardize measures across hospitals. This measure is created within NHSN and is not directly reported by hospitals.

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## CLABSI

OUTCOME

CLABSI Rate  
CLABSI SIR (NHSN Derived)

PROCESS

Central Line Utilization Rate  
Central Line Insertion Practices (*Optional*)

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## Central Lines

**Q: We use a third-party contractor exclusively to place central lines (CL). Are we required to report central line measures?**

**A:** Reporting on CLABSI and CL Utilization is required. The CLIP process measure is optional.

## Falls

### OUTCOME

Falls with Injury

Falls with or without Injury

## Falls

**Q: Our hospital has an adjoined long-term care unit. Should the fall rate include data from that unit?**

A: For the purposes of reporting data to the KHC HIIN, please focus on the hospital fall rate. Do not include data from long-term care facilities associated with the hospital when calculating the fall rate.

## Falls

**Q: Who should be included in our count of patient days?**

A: NDNQI has the following criteria as shown in our measures document:

Included Populations:

- Inpatients, short stay patients, observation patients, and same day surgery patients who receive care on eligible inpatient units for all or part of a day on the following unit types: adult critical care, step-down, medical, surgical, medical-surgical combined, critical access and adult rehabilitation inpatient units

Excluded Populations:

- Other unit types (e.g., pediatric, psychiatric, obstetrical, etc.)

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# PrU

OUTCOME

HAC PrU Prevalence Stage 2+  
HAC PrU Rate Stage 3+

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# Pressure Ulcers

**Q: What is a point-prevalence study?**

A: A point-prevalence study is a specific methodology to gather data.  
Please review AHRQ's pressure ulcer toolkit at:  
[www.ahrq.gov/professionals/systems/hospital/pressureulcertoolkit/putool5.html](http://www.ahrq.gov/professionals/systems/hospital/pressureulcertoolkit/putool5.html)

As well as HRET's pressure ulcers webinar:  
[www.hret-hen.org/topics/pu/20151124-HAPUWebinar.shtml](http://www.hret-hen.org/topics/pu/20151124-HAPUWebinar.shtml)

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## Pressure Ulcers

**Q: How is the stage 3+ pressure ulcer measure different from Pressure Ulcer 2+?**

A: Stage 3+ is a claims-based measure and designed to be extracted from claims or billing information. See the KHC Measures Dictionary and AHRQ specification.

## Pressure Ulcers

**Q: We do pressure ulcer prevalence studies quarterly, do we have to switch to monthly?**

A: Prevalence studies should be conducted monthly.

## Readmissions

### OUTCOME

Readmission all cause 30 days  
Readmission all cause 30 days (Medicare)

## Readmissions

### **Q: What is the definition of “non-elective inpatient” used in the 30-day readmission measure?**

A: Non-elective readmissions are generally those due to acute clinical events experienced by a patient that require urgent hospital management.

Elective readmissions are admissions that occur after the index discharge, but are planned and considered part of the treatment. This would include readmissions for maintenance chemotherapy, rehabilitation or for a planned procedure such as placement of a cardioverter/defibrillator. Elective readmissions are not counted in the numerator for the 30-day readmissions measures.



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## Readmissions

**Q. Do you count patients readmitted to observation?**

A. No, the readmission must be an inpatient readmission.

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## SSI Option 1

OUTCOME

- SSI Colons
- SSI Ab. Hysterectomy
- SSI Knee Prosthesis
- SSI Hip Prosthesis
- SSI SIR (NHSN Derived)

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## SSI Option 1

**Q: We only do one or two of the specified (COLO, HYST, KPRO, HPRO) surgeries per year – are they considered applicable?**

A: Because it's difficult to measure progress with extremely low surgical volumes, we encourage facilities that expect to perform less than 12 per year to mark the surgery type as non-applicable in the needs assessment and instead track SSIs using the Option 2 "All Surgeries" measure.

## SSI Option 1

**Q: What if my facility doesn't perform all the procedures (COLO, HYST, KPRO, HPRO)?**

A: That's fine. We can meet you where you are:

- If your hospital does one or more (but not all), mark them as applicable/nonapplicable in the Needs Assessment Survey.
- If your hospital performs surgeries, but not these "option 1" procedures, then use the "option 2" all surgical procedures measure.
- If you are using NHSN, we expect applicable surgeries to be "in-plan". E.g. a facility not doing knees or hips would only have colon and hysterectomy surgeries marked "in-plan" for monthly reporting.
- Those facilities reporting to QHi should leave non-applicable surgeries blank.

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## SSI Option 2

OUTCOME

SSI All Procedures

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## SSI Option 2

**Q: Is the option 2 All Procedures measure *all* surgical procedures – should I include outpatient surgeries?**

A: The option 2 measure is intended for facilities that don't perform other NHSN defined surgeries or have very low volumes for specified surgeries. Common examples are delivery by cesarean section, hernia surgeries, or one colon resection in the past calendar year.

For an exhaustive list see the CDC's operative procedures document:  
[www.cdc.gov/nhsn/PDFs/OperativeProcedures.pdf](http://www.cdc.gov/nhsn/PDFs/OperativeProcedures.pdf)

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# VAE

OUTCOME

Ventilator assoc. conditions (VAC)  
Infection-related ventilator assoc. conditions (IVAC)

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# VTE

OUTCOME

Post-op PE or DVT  
Potentially preventable VTE (*Optional*)

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## *C. diff*

OUTCOME

Facility-wide hospital-onset *C. difficile* rate  
*C. difficile* SIR (NHSN Derived)

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## MRSA Bacteremia

OUTCOME

Facility-wide hospital-onset MRSA  
Bacteremia rate  
MRSA SIR (NHSN Derived)

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# Sepsis

OUTCOME

- Hospital-onset sepsis mortality rate
- Overall sepsis mortality rate
- Post-operative sepsis rate

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# CoS/WS

OUTCOME

- Employee harm events related to patient handling
- Employee harm events related to workplace violence

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## What and Who

- Project questions: [MClark@khconline.org](mailto:MClark@khconline.org)
- Data questions: [RRutherford@khconline.org](mailto:RRutherford@khconline.org)
- Resources: [www.khconline.org](http://www.khconline.org) and [www.hret-hiin.org](http://www.hret-hiin.org)

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- What would you like to learn more about?
- Next steps:
  - Return HIIN commitment form to KHC and QHi form to KHA. (if you haven't already)
  - Celebrate with your staff! You are committing to an extraordinary national initiative to improve care.
  - Watch email for KHC HIIN updates.
  - Review HIIN baseline periods and measures. October monitoring data will be due Nov. 30. Contact KHC with any questions. (Friday is good!)
  - Register for upcoming HIIN webinars (state and national).

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    graph LR
      A[Enrollment > Steps] --> B[KHC HIIN Commitment Letter]
      B --> C[QHi and NHSN Enrollment]
      C --> D[Needs assessment  
Baseline data submission]
      D --> E[Site Visit]
    
```

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## Upcoming National Webinars

HRET HIIN **Falls** Webinar  
**Thursday, December 1 • 12:00 to 1:00 p.m. CT**  
Pre-register: [hret.adobeconnect.com/falls20161201/event/registration.html](http://hret.adobeconnect.com/falls20161201/event/registration.html)

NCD Pacing Event: **Sepsis**  
**Thursday, December 1 • 12:00 to 1:00 p.m. CT**  
Pre-register at: <https://secure.confertel.net/tsRegister.asp?course=6860886>

HRET HIIN **CAUTI** Webinar  
**Tuesday, December 6 • 11:00 to 11:50 a.m. CT**  
Pre-register at: [hret.adobeconnect.com/cauti20161206/event/registration.html](http://hret.adobeconnect.com/cauti20161206/event/registration.html)

More Upcoming Events at  
[www.hret-hiin.org](http://www.hret-hiin.org)

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KHC HIIN Data Office Hours Upcoming Events

## Next KHC HIIN Webinar

**Wednesday, December 7**  
10:00 a.m. to 11:00 a.m. CT  
Pre-register at:  
[www.khconline.org](http://www.khconline.org)

All sessions are recorded and archived at  
[www.khconline.org/general-education-archive](http://www.khconline.org/general-education-archive)

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**KHC HIIN Data Office Hours** **Upcoming Events**




## Regional Abstraction Training Sessions

**Dates and Locations:**  
 Pittsburg – December 2  
 Wichita – December 9  
 Topeka – January 10  
 Hays – February 9  
 Garden City - TBD

Register at: <https://registration.kha-net.org>

Please contact the KHA Education Department (785) 233-7436  
 or [scunningham@kha-net.org](mailto:scunningham@kha-net.org) if you have any questions.

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**KHC HIIN Data Office Hours** **785-235-0763**

## Your KHC Team

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