

### MDH ICAR Infection Prevention Audit Tools

### Introduction

- Thank you for joining us!
- Please submit general questions in the "Q&A" box found at the bottom right of the WebEx screen.
  - Our presenters will use the "Chat" box to place links and resources.



**a** Participants

○ Chat

3:12 PM

#### MDH ICAR Team

- Britt Bailey, MPH Epidemiologist Senior
  - Tool Function and Demonstration
- Kathy Hogan, RN, BSN, MA, CIC Nurse Specialist
  - Wound Care
- Kristi Juaire, MSN, RN, CIC Nurse Specialist
  - Project Lead & Environmental Cleaning
- Caramae Steinwand, BS Planner Intermediate/Project Firstline Team Lead
  - Hand Hygiene & Personal Protective Equipment (PPE)

Developed easy-touse Word and Excel based resources to assist with Infection Prevention Audits.

Observation audits are a way to understand if staff fully comply with IPC practices

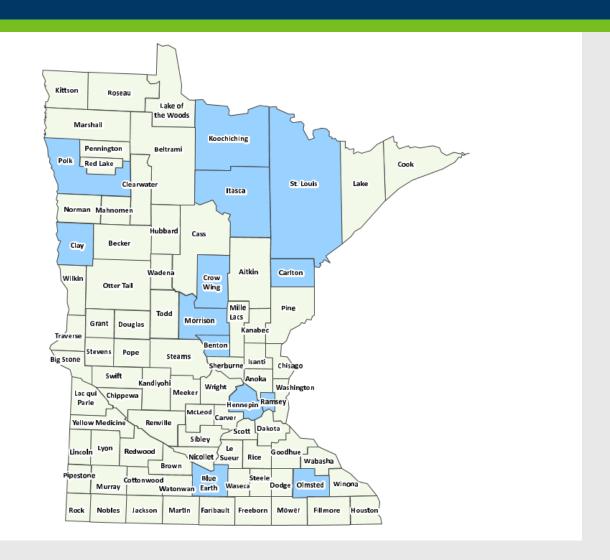


Partnerships & collaborations with health care facilities and the Infection Control and Response (ICAR) Team

MDH ICAR team identified a need for a standardized resource to audit staff compliance

## Facility engagement around the State of MN

The counties highlighted in blue are where facilities expressed interest in participating in the Pilot Program.



# Infection Prevention Domains



Hand Hygiene



**Wound Care** 



Personal Protective Equipment (PPE)



**Environmental Cleaning** 

# **Audit Tools Objectives**

- Assess compliance at the role, department/unit, and facility level.
- Identify whether there are opportunities to improve.
- Identify the specific steps where improvement needs to be targeted.
- Measure improvement over time and visualize it in a run chart that the tracking tool generates automatically as data is entered

### **Infection Prevention Audit Tools**

#### Observation tools

 Built in Microsoft Word and to be used by the auditor to assess if evidence-based infection prevention standards were met within the topic area.

#### Audit Workbooks

Built in Microsoft Excel to manage and analyze 12 months of audit data

### **Observation Tools**





#### **Hand Hygiene Observation Tool**

This audit tool can be used to determine compliance of hand hygiene practices for any staff member. Facilities may also consider using this tool for outside contractors, visitors, and volunteers.

Observer:	Date:	Unit:	
	Role	Action	Hand Hygiene Observed
□ DIETARY □ I	□ CNA □ EVS □ PCA □ TMA □ DSP □ REHAB  LAUNDRY □ ACTIVITIES □ FACILITIES □ PROVIDER	□ RT □ ENTER □ EXIT	□ WASH □ RUB □ MISSED
□RN □LPN	□ CNA □ EVS □ PCA □ TMA □ DSP □ REHAB	□RT	□WASH





#### **PPE and Hand Hygiene Observation Tool**

This audit tool can be used to determine compliance of hand hygiene and personal protective equipment practices for any staff member.

Observer: \_\_\_\_\_ Unit: \_\_\_\_

Role	Action	Hand Hygiene Observed	Trans	mission Based Precautio	ons and PPE Donne	d/Doffed
□ RN □ LPN □ CNA □ EVS □ PCA □ TMA □ DSP □ RT □ REHAB □ PROVIDER □ DIETARY □ LAUNDRY □ ACTIVITIES □ FACILITIES □ OTHER:	□ ENTER □ EXIT	□ WASH □ RUB □ MISSED	☐ STANDARD ☐ CONTACT ☐ CONTACT/DROPLET ☐ DROPLET ☐ ENHANCED BARRIER ☐ ENHANCED RESPIRATORY	Gloves:   Yes   No Gloves:   Yes   No Mask:   Yes   No Gloves:   Yes   No Gloves:   Yes   No N95 or PAPR:   Yes	Gown: ☐ Yes Gown: ☐ Yes Gown: ☐ Yes	No Mask: Yes No





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#### **Wound Dressing Change Observation Tool**

This audit tool can be used to determine compliance of wound dressing change practices for any staff member.

Observer:			Date:			Location	(room/unit/	etc.):			
Role	All supplies gathered before dressing change <sup>1</sup>	HH performed before dressing change	Clean gloves donned before dressing change <sup>2</sup>	Multi-dose wound care meds used appropriately <sup>3</sup>	Dressing change performed in manner to prevent cross- contamination <sup>4</sup>	Gloves removed after dressing change completed	HH performed after dressing change completed	Reusable equipment cleaned and/or disinfected appropriately <sup>5</sup>	Clean, unused supplies discarded or dedicated to one resident	Wound care performed/ assessed regularly <sup>6</sup>	Wound of supply of is clear
□ RN □ REHAB □ PROVIDER □ CONTRACTOR	□ Yes □ No □ NA	□ Yes □ No □ NA	□ Yes □ No □ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	□ Yes □ No □ NA	□ Yes □ No □ NA	☐ Yes ☐ No ☐ NA	□ Yes □ No □ NA	□ Yes □ No □ NA	□ Yes □ No □ NA
□ RN □ REHAB □ PROVIDER □ CONTRACTOR	□ Yes	☐ Yes	□ Yes	□ Yes	□ Yes	□ Yes	☐ Yes	□ Yes	□ Yes	☐ Yes ☐ No	☐ Yes



<b>ICAR</b>	Infection Control Assessment and Response Program
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#### **Environmental Checklist for Monitoring Terminal Cleaning**

Selection of detergents and disinfectants should be according to institutional policies and procedures.

Nursing homes may choose to include identifiers of individual environmental services staff for feedback purposes.

Initials of ES staff (optional):	Monitoring method use
Date:	□ Direct observation □ Fluorescent gel
Unit:	□ Swab cultures
Room Number:	□ ATP system □ Agar slide cultures

Evaluate the following priority high touch sites most frequently touched in each resident room.

High Touch Surface Types	High Touch Room Surfaces	Cleaned	Not Cleaned	Not Present in Room
	Bed rails/controls			
High Touch I	Tray table			

02/22/2023 High Touch I Tray table

# How do the tools work together?

\*All data represented in this presentation are from a sample dataset





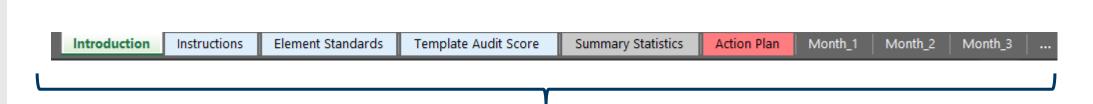
#### 4 Hand Hygiene Observation Tool

This audit tool can be used to determine compliance of hand hygiene practices for any staff member. Facilities may also consider using this tool for outside contractors, visitors, and volunteers.

Observer:	Britt Bailey	Date: <u>10/1/2022</u>		Unit: <u>Reh</u> a	ab_
		Role		Action	Hand Hygiene Observed
□RN □LPN □ DIETARY □ □ OTHER:		□ PCA □ TMA □ DSP CTIVITIES □ FACILITIES □	□ rehab □ rt Provider ———	□ ENTER	□ WASH □ RUB □ MISSED

Job Role		Location (e.g. Room #, Unit)	Room Enter/Exit (choose one)		Hand Hygiene Performed (Calculated Field)	Actual Score	Missed Opportunities	Percentage Attained
Rehab	10/1/2022	Rehab Room	Enter	RUB	Υ	1	0	
LPN	10/1/2022	A1	Enter	RUB	Y	1	0	100
LPN	10/2/2022	A1	Exit	WASH	Y	1	0	100
RN	10/2/2022	B1	ENTER	WASH	Y	1	0	100
CNA	10/3/2022	B3	EXIT	RUB	Y	1	0	100
EVS	10/3/2022	Memory Care	EXIT	MISSED	N	0	1	0
		<u> </u>				0	0	
		<u> </u>			1	0	0	
				Total Score	5			
				<b>Missed Opportunities</b>	1			i
				Achievable Score	6			i
	Comments: (insert comments here)					83.		

### Features of the Audit Workbook



#### Each workbook contains 18 tabs

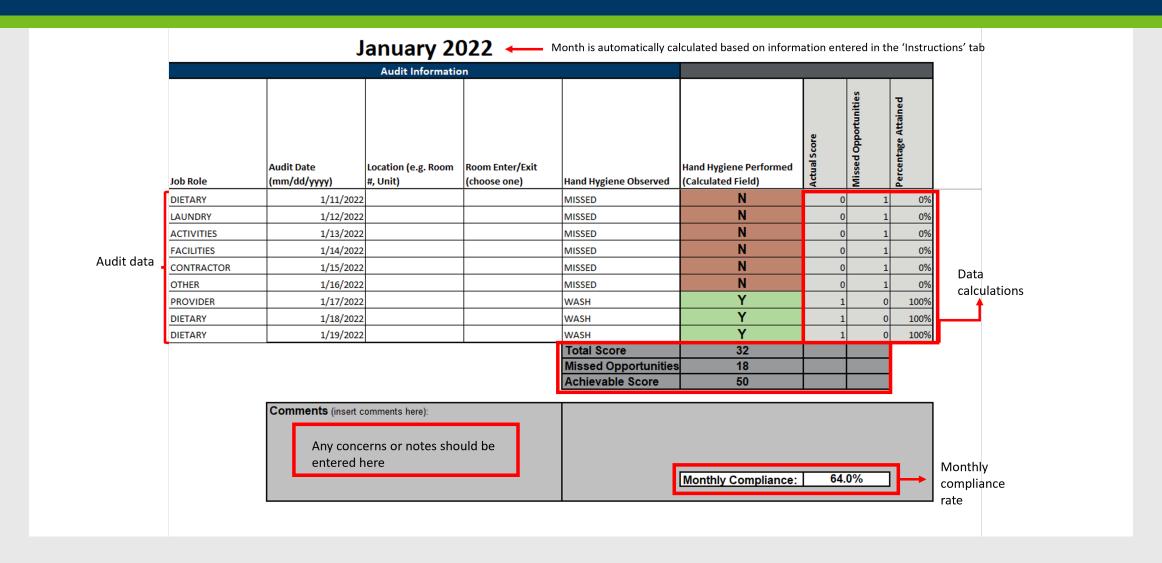
- Introduction: why the tool was developed, other resources available and where to begin
- Instructions: setting the timeframe and compliance goal
- Element standards: data dictionary and provides information on the data elements
- Template Audit Score: example of a completed month tab
- Summary Statistics: data entered in each month is rolled up into the Summary Statistics tab
- Action Plan: document audit action plans and track progress
- Month\_1:Month\_12: recording employee and audit data

### **Audit Tool: Instructions Tab**

- This tab allows you to set your timeframe (tracking year and tracking start date) and goal compliance rate
- After selecting the tracking start date (mm-yyyy),
   the workbook will calculate the next 11 months.
- The goal compliance rate will be included in the compliance rate graph to allow for you to see how the monthly compliance rate compares.

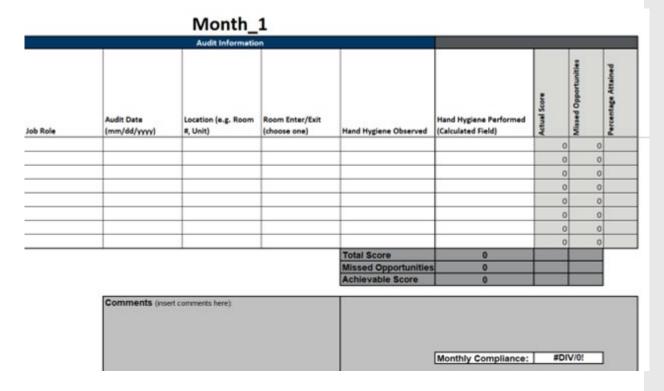
#### **Hand Hygiene Audit Tracking Tool Instructions** Step 1: Before entering your monthly observational audit data, select an option from each of the drop-down menus (click on t Complete the following fields: Facility Name, Tracking Year, Tracking Start Date, and Goal Compliance Rate. **Test Facility** FACILITY NAME: TRACKING YEAR: 2022 TRACKING START DATE: (mm-yyyy) | January 2022 GOAL COMPLIANCE RATE: 75% (e.g. 90%, 95%, etc.) Step 2: Navigate to the Month 1 tab to begin the first month of tracking. Step 3: Insert "Y" for yes, "N" for no and "N/A" for not assessed, for each opportunity during the EVS audit. The box will automatically go blue for "Y", red for "N" and yellow for "N/A". The pop-up box for 'Allowed Values' can be tempc Step 4: Achievable Score, Total Score, Acual Score, Missed Opportunities, and Overall Percentage Score will be automatically c

# Audit Tool: Template Audit Score Tab



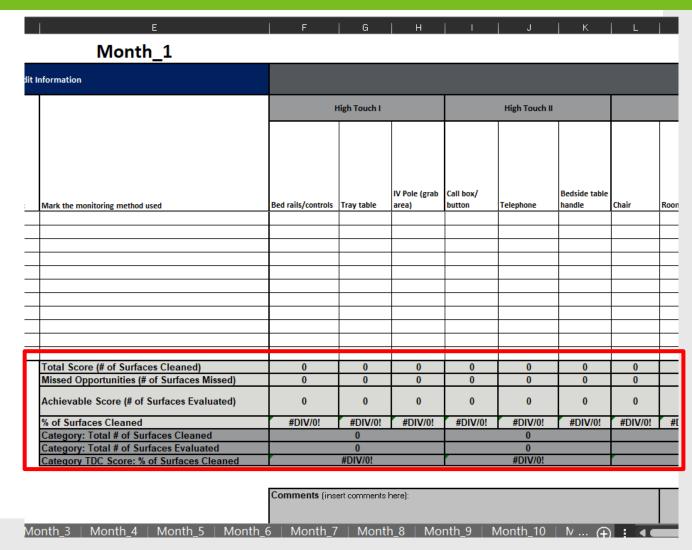
### **Audit Tool: Month Tab**

- 50 observations per month
- Monthly spreadsheets were mirrored to accommodate the data elements within the observation tools
- Data calculations to provide information regarding monthly data



### **EVS Audit Tool: Month Tabs**

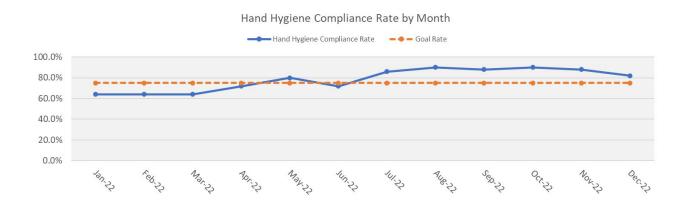
- Calculation of Aggregate
   Thoroughness of Disinfection
   Cleaning (TDC) Score
- The checklist has been grouped into 5 categories for calculating aggregate TDC scores: High Touch I, High Touch II, High Touch III, Bathroom Surfaces, and Equipment Surfaces.
- This allows you to report on the aggregate TDC scores for each category of objects.

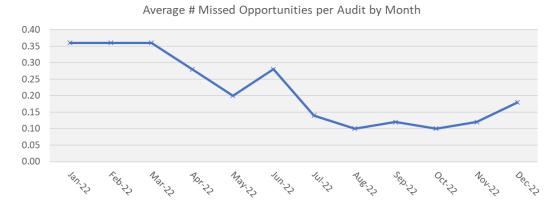


### Summary Statistics: Show me the data!

Data entered in each month is rolled up into this tab

B	l	Month_1	Month_2	Month_3	Month_4	Month_5	Month_6	Month_7	Month_8	Month_9	Month_10	Month_11	Month_12
Reporting	Month	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
	# of Audits Conducted	50	50	50	50	50	50	50	50	50	50	50	50
Hand Hygiene	Hand Hygiene Compliance Rate	64.0%	64.0%	64.0%	72.0%	80.0%	72.0%	86.0%	90.0%	88.0%	90.0%	88.0%	82.0%
COMPLIANCE	Average # Missed Opportunities per Audit	0.36	0.36	0.36	0.28	0.20	0.28	0.14	0.10	0.12	0.10	0.12	0.18





# Summary Statistics: Monthly/Weekly Comparison

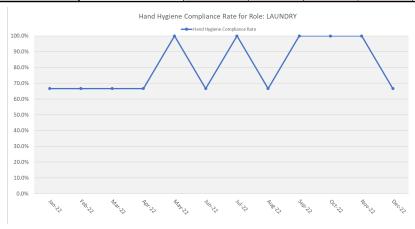
#### Monthly/weekly comparison

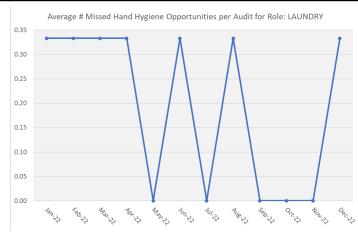
SELECT MONTHS	FOR COMPARISON →			Oct-22					Nov-22					Dec-22		
WEEKLY (Su - Sa) RATES	Start of Week	10/1/2022	10/2/2022	10/9/2022	10/16/2022	10/23/2022	11/1/2022	11/6/2022	11/13/2022	11/20/2022	11/27/2022	12/1/2022	12/4/2022	12/11/2022	12/18/2022	12/25/2022
WEEKET (Su - Sa) KATES	End of Week	10/1/2022	10/8/2022	10/15/2022	10/22/2022	10/31/2022	11/5/2022	11/12/2022	11/19/2022	11/26/2022	11/30/2022	12/3/2022	12/10/2022	12/17/2022	12/24/2022	12/31/2022
	# of Audits Conducted	2	14	14	11	9	10	14	14	8	4	6	14	14	9	7
	# of Missed		1	2		•	_			•	0	•	•	6	0	0
Hand Hygiene	Opportuntities	1	1	2	1	U	3	1	U	U	U	•	3	6	U	U
COMPLIANCE	Average # Missed															
	Opportunities per	0.5	0.1	0.1	0.1	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0
	Audit															
NUMBER OF MISSED OPPORTUNITIES	Hand Hygiene Performed	1.00	1.00	2.00	1.00	0.00	5.00	1.00	0.00	0.00	0.00	0.00	3.00	6.00	0.00	0.00



# Summary Statistics: Job Role

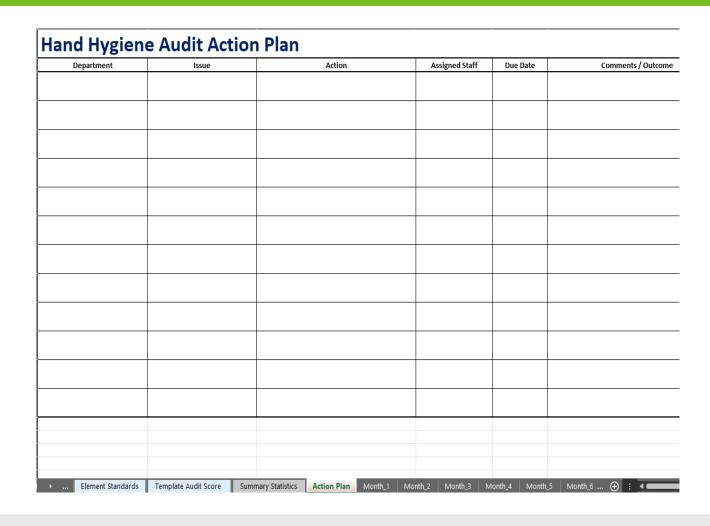
Select Job Role:	LAUNDRY												
HH RATES BY JO	B ROLE: LAUNDR	Υ											
Reportin	g Month	Month_1 Jan-22	Month_2 Feb-22	Month_3 Mar-22	Month_4 Apr-22	Month_5 May-22	Month_6 Jun-22	Month_7 Jul-22	Month_8 Aug-22	Month_9 Sep-22	Month_10 Oct-22	Month_11 Nov-22	Month_12 Dec-22
	# of Audits Conducted	3	3	3	3	3	3	3	3	3	3	3	3
	Hand Hygiene Compliance Rate	66.7%	66.7%	66.7%	66.7%	100.0%	66.7%	100.0%	66.7%	100.0%	100.0%	100.0%	66.7%
Hand Hygiene	Total Achievable Score	3	3	3	3	3	3	3	3	3	3	3	3
COMPLIANCE	Total Completed Opportunities	2	2	2	2	3	2	3	2	3	3	3	2
	Total # of Missed Opportunities	1	1	1	1	0	1	0	1	0	0	0	1
	Average # of Missed Opportunitites	0.33	0.33	0.33	0.33	0.00	0.33	0.00	0.33	0.00	0.00	0.00	0.33
NUMBER OF MISSED OPPORTUNITIES	Hand Hygiene Performed	1	1	1	1	0	1	0	1	0	0	0	1





### Audit Tool: Action Plan

- Documentation of targeted interventions after reviewing audit data
- Assessment of actionsdoes the data support improvement
- Creating a data-driven culture



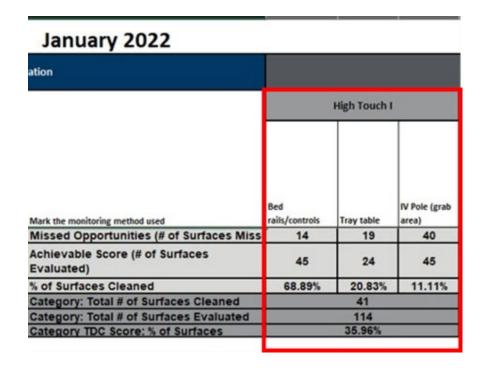
# Data Story 1: Specific Data Element

- Completed 1 month of environmental cleaning observations and entered data into the audit workbook
- Monthly Compliance Rate: 65%
  - TDC High Touch 1%: 35.96%

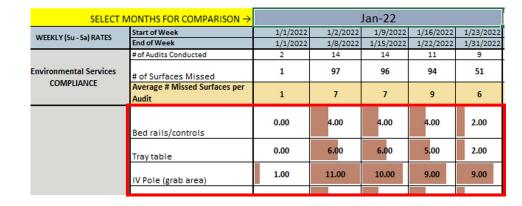
Report	ting Month	Month_1 Jan-22
	# of Audits Conducted	50
Environmental Services COMPLIANCE	Environmental Services Compliance Rate	65.0%
	Average # Missed Opportunities	6.78
	High Touch I	35.96%
	High Touch II	68.89%
Category TDC Score %	High Touch III	68.89%
	Bathroom Surfaces	68.89%
	Equipment Surfaces	68.89%

# Data Story 1: Specific Data Element Example

Navigate to the "Monthly Tab"



Within the "Summary Statistics" tab



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# Data Story 1: Specific Data Element (continued)

Documenting actions within the "Action Plan"

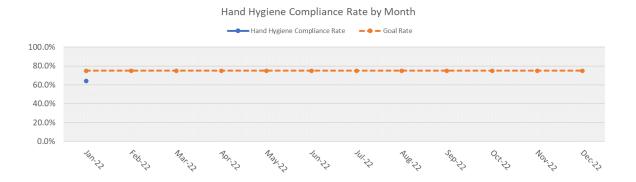
#### **EVS Audit Action Plan**

Department	Issue	Action	Assigned Staff	Due Date	Comments / Outcome
	Finding missed or				
EVS	forgotten items	Data was shared with EVS manager	IP	2/10/2022	
	Finding missed or				
EVS	forgotten items	Target education	EVS Manager	2/28/2022	Competency reviewed at staff meeting

# Data Story 2: Compliance/Role Data

- Completed 1 month of hand hygiene observations and entered data into the audit workbook
- Monthly Compliance Rate: 64%
  - Goal compliance rate: 75%
  - Are there differences between roles and hand hygiene compliance rate?

Reporting Month		Month_1 Jan-22
	# of Audits Conducted	50
Hand Hygiene	Hand Hygiene Compliance Rate	64.0%
COMPLIANCE	Average # Missed Opportunities per Audit	0.36



# Data Story 2: Compliance/Role Data Example

Select Job Role:	PROVIDER	<b>v</b>	
HH RATES BY JOB ROLE: PROVIDER			
Reporting Month		Month_1 Jan-22	
	# of Audits Conducted	4	
	Hand Hygiene Compliance Rate	75.0%	
Hand Hyrriana	Total Achievable Score	4	
Hand Hygiene COMPLIANCE	Total Completed Opportunities	3	
	Total # of Missed Opportunities	1	
	Average # of Missed Opportunitites	0.25	
NUMBER OF MISSED OPPORTUNITIES	Hand Hygiene Performed	1	

Select Job Role:	ТМА	<b>*</b>		
HH RATES BY JOB ROLE: TMA				
Reporting Month		Month_1 Jan-22		
	# of Audits Conducted	3		
	Hand Hygiene Compliance Rate	33.3%		
Hand Hariana	Total Achievable Score	3		
Hand Hygiene COMPLIANCE	Total Completed Opportunities	1		
	Total # of Missed Opportunities	2		
	Average # of Missed Opportunitites	0.67		
NUMBER OF MISSED OPPORTUNITIES	Hand Hygiene Performed	2		

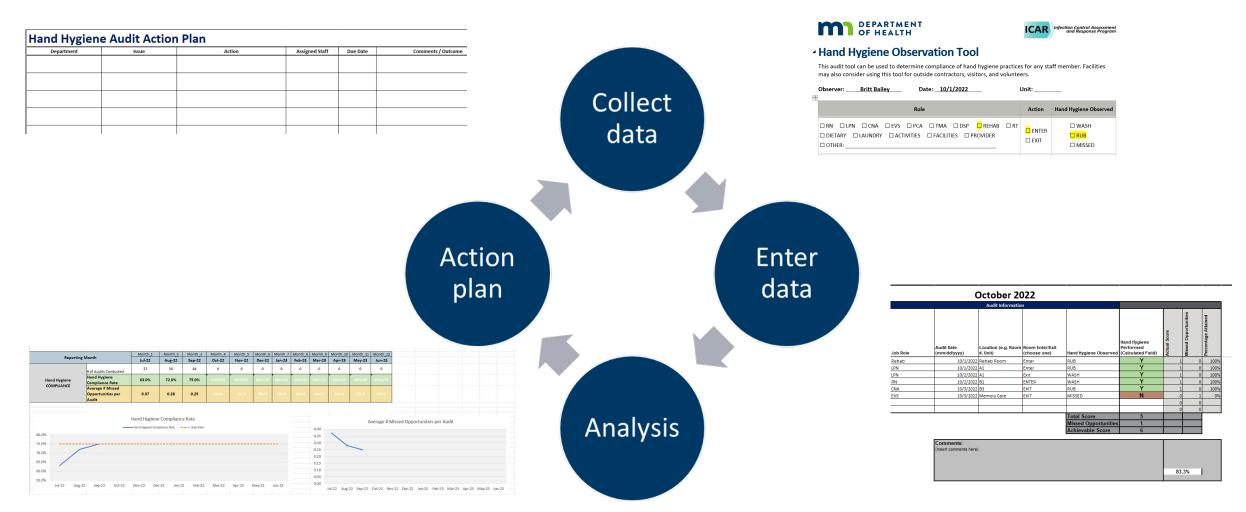
# Data Story 2: Compliance/Role Data (continued)

Documenting actions within the "Action Plan"

Hand Hygiene Audit Action Plan					
Department	Issue	Action	Assigned Staff	Due Date	Comments / Outcome
Nursing	Missed HH opportunities	Share data with Nurse Manager	IP	2/15/2022	
Nursing	Missed HH opportunities	Have TMAs review PFL module on HH	Nurse Manager	2/28/2022	Recorded when TMAs viewed PFL module

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## Infection Prevention Audit Tools Wrap Up



### Where to find the tools?

- Infection Prevention Audit Tools Instruction Manual
- 4 sections (HH, PPE, Wound Care & EVS)
  - Observation (PDF & Word)
  - Audit Tracking Workbook (Excel)
- Location: MDH ICAR Infection Prevention Audit Tools (www.health.state.mn.us/facilities/patientsafety/infectioncontrol/icar/res/audit.html)



# Thank You!

Questions: email <a href="mailto:health.icar@state.mn.us">health.icar@state.mn.us</a>