Seek and You Shall Find: Using Surveillance Tools to Detect an Outbreak

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Philadelphia HAI/AR Collaborative
Meeting: Outbreaks and Surveillance in Long-term Care

Department of Public Health
CITY OF PHILADELPHIA

Speaker Disclosure

- Susy Rettig has nothing to disclose
- Anita Wade has nothing to disclose

Objectives

- Identify IPC surveillance tools that can be used to identify and control a potential outbreak
- Use surveillance data to guide IPC improvement efforts

Agenda

Review

- Surveillance terms
- Data collection tools
- Compliance calculations for hand hygiene

Provide examples for data display using Excel

- Hand hygiene observations
- Epidemic (EPI) curve

What We Learned about Surveillance from Our ICAR Visits

- Hand hygiene observations are performed, but not always documented
- Feedback for hand hygiene compliance is given, but not documented
- Data are reported at monthly meetings, but not displayed and trended over time
- Outbreak data are not plotted on an EPI curve

What is Surveillance?

APIC Surveillance Definition

- ‘‘The ongoing, systematic collection, analysis, interpretation, and dissemination of data to identify infections and infection risks, to try to reduce morbidity and mortality and to improve health.’’
- Core activity of an IPC program

Purpose of Surveillance

- Identify infections
- Monitor trends in infections and pathogens
- Detect outbreaks
- Monitor staff adherence to IPC practices
- Identify performance improvement opportunities
- Track progress toward priorities identified on the annual facility IPC risk assessment
- Inform the development of future risk assessments

Infection Surveillance Methods

- Targeted
  - Detect and control outbreaks
- Electronic
- House-wide-comprehensive
- Process
- Outcome

Process Surveillance Measures

Audit of practice with direct observation or review of documentation

- Hand hygiene
- PPE use
- IPC practices during blood glucose monitoring and wound care
- Oral care for ventilator patients
- Indication for new antibiotic prescriptions

Outcome Surveillance Measures

- Identify infection events
  - Influenza case count/rate
  - Norovirus case count/rate
  - C. difficile case count/rate
  - Site specific infection rate

Data Collection Tools

Data Tools

- 24 hour report
- Line list for targeted infection
- Observation forms for compliance
  - Hand hygiene
  - PPE
  - Wound Care
  - Blood glucose monitoring

Line List for Targeted Infection

- Demographics
- Location
- Signs and symptoms
- Diagnostics
- Treatment
- Outcome

Hand Hygiene and PPE Observation Sheet

Hand Hygiene and PPE Use Observations					
Staff type*	**Type of HH Opportunity**	**HH Performed?**	**Indication for PPE use**	**Type of PPE Indicated?**	**Appropriate PPE used?**
	◯ Room entry ◯ Room exit ◯ Before resident contact ◯ After resident contact ◯ Before glove ◯ After glove ◯ Other:	◯ Alcohol-rub ◯ Hand wash ◯ No HH done	◯ Exposure to bodily fluids (standard precautions) ◯ Contact precautions ◯ Droplet precautions ◯ PPE use not indicated	◯ Gloves ◯ Gloves and gown ◯ Mask/ goggles/ faceshield ◯ None	◯ Yes ◯ No ◯ N/A - PPE use not indicated
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Turn Data into Action

Turn Data into Action

1. **Leverage** technology to support infection prevention

2. **Apply** basic statistical analyses

3. **Interpret** your data to inform infection prevention practices

4. **Build** confidence in sharing and explaining data

Developed by The Rhode Island Department of Health in collaboration with Healthcentric Advisors.

Analyze the Data

Process Measures Calculate Compliance

- Tracks staff adherence to recommended IPC practices.
- Numerator: Number of times the practice is performed correctly.
- Denominator: Total number of opportunities to perform the practice. Should be robust.
- Constant (k) = 100. Allows process measures to be expressed as a "percent adherence."

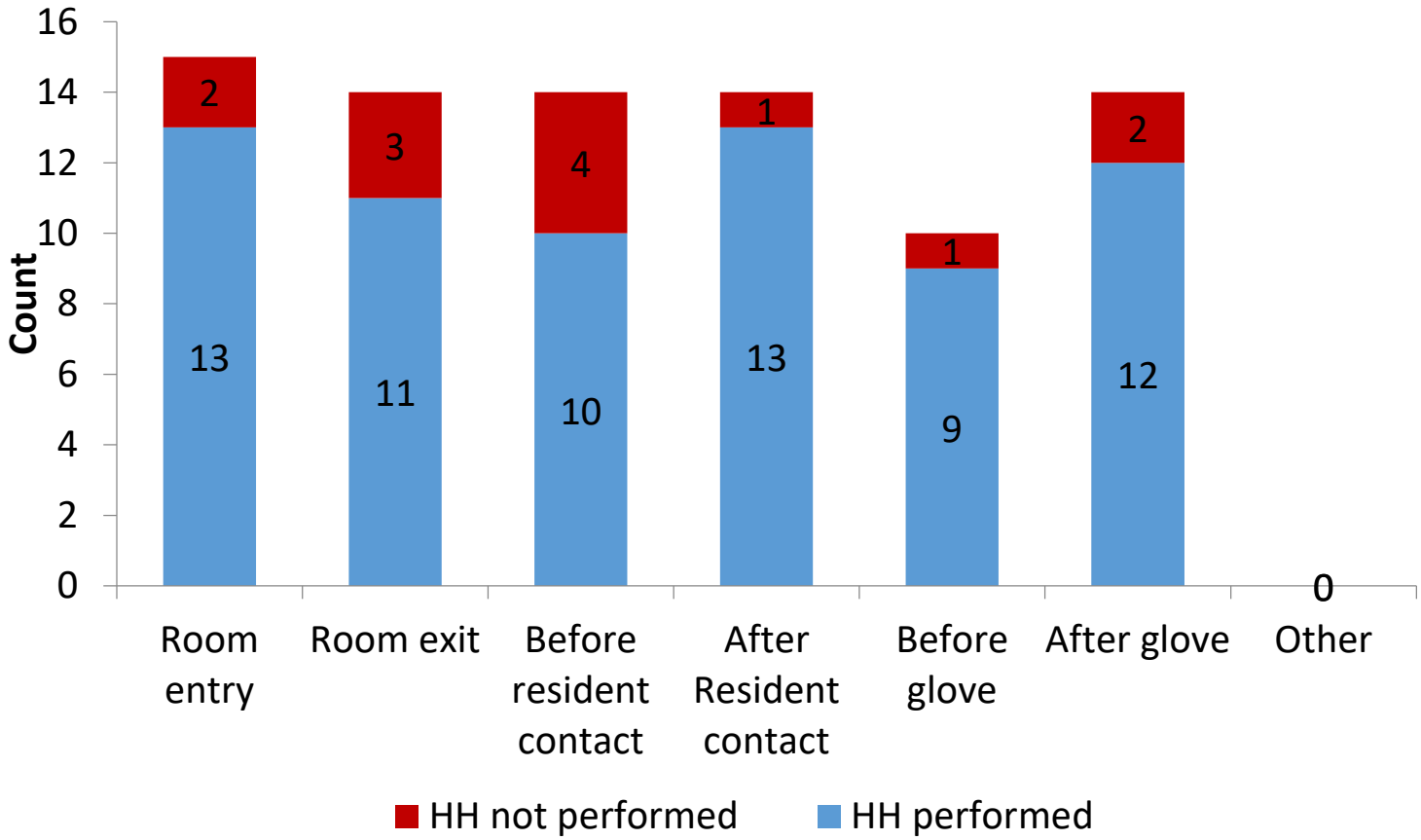
Example for Hand Hygiene Compliance Rate

- Numerator = 12 times performed correctly
- Denominator = 20 opportunities to perform the practice
- Multiply by 100
- Equals 60% hand hygiene compliance
- $\frac{12}{20}\ (100) = 60\%$

How to Display Compliance with Moments of Hand Hygiene

- Room entry-87%
- Room exit-79%
- After glove use-86%

Displaying Surveillance Data



Alternative Methods for Displaying an Outbreak

<u>Outbreak scenario:</u>

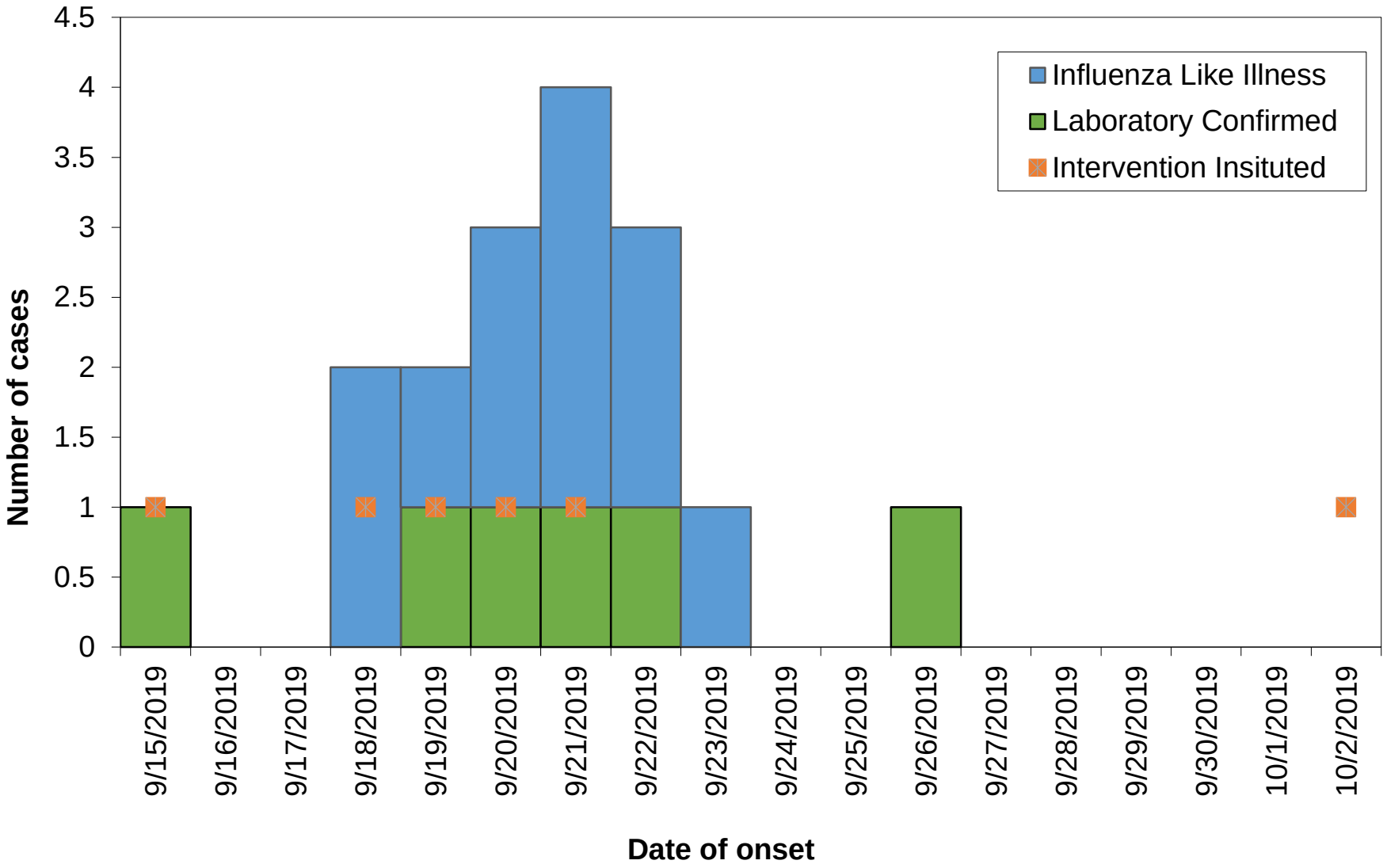
Influenza outbreak on 4 South

- Started 02/18
- Ended 03/02
- 15 cases
- Interventions

Epidemic Curve for an Outbreak

- Displays the number of cases of illness by the date of illness onset
- Shows your distribution of cases over time
- Provides a sense of the magnitude
- Estimate disease/incubation period
- Histogram is used to show frequency distributions

Influenza Like Illness Epidemic Curve



Example of Utilizing Data Collection Tools

Hand Hygiene Observation Sheet

Hand Hygiene and PPE Use Observations					
Staff type*	Type of HH Opportunity	HH Performed?	Indication for PPE use	Type of PPE Indicated?	Appropriate PPE used?
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1 Row Used per Staff Member and HH opportunity

HH Observations

Hand Hygiene and PPE Use Observations

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PPE Observations

Hand Hygiene and PPE Use Observations

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Filled in Observation Sheet

Hand Hygiene and PPE Use Observations

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MD	● Room entry ○ Room exit ○ Before resident contact ○ After resident contact ○ Before glove ○ After glove ○ Other:	● Alcohol-rub ○ Hand wash ○ No HH done	○ Exposure to bodily fluids (standard precautions) ○ Contact precautions ○ Droplet precautions ● PPE use not indicated	○ Gloves ○ Gloves and gown ○ Mask/ goggles/ faceshield ○ None	○ Yes ○ No ○ N/A - PPE use not indicated
CNA	● Room entry ○ Room exit ○ Before resident contact ○ After resident contact ○ Before glove ○ After glove ○ Other:	○ Alcohol-rub ○ Hand wash ● No HH done	○ Exposure to bodily fluids (standard precautions) ○ Contact precautions ○ Droplet precautions ● PPE use not indicated	○ Gloves ○ Gloves and gown ○ Mask/ goggles/ faceshield ○ None	○ Yes ○ No ○ N/A - PPE use not indicated
LPN	● Room entry ○ Room exit ○ Before resident contact ○ After resident contact ○ Before glove ○ After glove ○ Other:	● Alcohol-rub ○ Hand wash ○ No HH done	○ Exposure to bodily fluids (standard precautions) ○ Contact precautions ○ Droplet precautions ● PPE use not indicated	○ Gloves ○ Gloves and gown ○ Mask/ goggles/ faceshield ○ None	○ Yes ○ No ○ N/A - PPE use not indicated
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Unit:_____ Rev. Sept. 2019

Observer:_____

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HAND HYGIENE OBSERVATIONS

Instructions: Use a ✓ for each hand hygiene success observed and a Ø to designate each time hand hygiene was not performed . Multiple observations can be made in each box.

Date	Staff Type	Success (✓) / Failure (Ø)					
		Room Entry	Room Exit	Before Resident Contact	After Resident Contact	Before Glove	After Glove
Totals		✓= Ø=	✓= Ø=	✓= Ø=	✓= Ø=	✓= Ø=	✓= Ø=

*Staff key: MD/DO= Physician PA= Physician assistant, NP= Nurse practitioner, RN= Registered nurse, LPN= Licensed practical nurse, CNA= Certified nursing assistant, REHAB= Rehabilitation staff (e.g. physical/ occupational/ speech / respiratory therapist), DIET= Dietary staff, EVS= Environmental services or housekeeping staff, SW= Social worker, RP= Religious personnel (Priest, Pastor, Rabbi, Imam, etc.) OTHER= Volunteer/Research UNK= unknown/ unable to determine

One row can have multiple observations for the same staff member

Unit: 1 North

Observer: Jane Doe, RN

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		Room Entry	Room Exit	Before Resident Contact	After Resident Contact	Before Glove	After Glove
10/2	LPN	✓✓✓Ø	✓✓✓✓	✓Ø✓	✓✓✓	ØØ✓	✓✓✓✓
10/2	MD	✓✓✓✓	ØØ✓	✓✓✓Ø	✓✓✓✓	✓Ø✓	✓✓✓
10/2	RN	✓Ø✓	✓✓✓✓	ØØ✓	✓✓✓	✓✓✓Ø	✓✓✓✓
10/2	REHAB	✓✓✓✓	✓Ø✓	✓✓✓✓	✓✓✓Ø	✓✓✓	ØØ✓
Totals		✓= 13 Ø= 2	✓= 11 Ø= 3	✓= 10 Ø= 4	✓= 13 Ø= 1	✓= 9 Ø= 4	✓= 12 Ø= 2

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10/2	MD	✓✓✓✓	ØØ✓	✓✓✓Ø	✓✓✓✓	✓Ø✓	✓✓✓
10/2	RN	✓Ø✓	✓✓✓✓	ØØ✓	✓✓✓	✓✓✓Ø	✓✓✓✓
10/2	REHAB	✓✓✓✓	✓Ø✓	✓✓✓✓	✓✓✓Ø	✓✓✓	ØØ✓
Totals		✓= 13 Ø= 2	✓= 11 Ø= 3	✓= 10 Ø= 4	✓= 13 Ø= 1	✓= 9 Ø= 4	✓= 12 Ø= 2

Includes a place for tallying up column totals

Entering Data

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10/2	MD	✓✓✓✓	ØØ✓	✓✓✓Ø	✓✓✓✓	✓Ø✓	✓✓✓
10/2	RN	✓Ø✓	✓✓✓✓	ØØ✓	✓✓✓	✓✓✓Ø	✓✓✓✓
10/2	Ri						
Totals		✓= 13 Ø= 2	✓= 11 Ø= 3	✓= 10 Ø= 4	✓= 13 Ø= 1	✓= 9 Ø= 4	✓= 12 Ø= 2

- **Count the total number of HH successes observed by opportunity type**
  - **Enter in the HH data tool**

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10/2	MD	✓✓✓✓	ØØ✓	✓✓✓Ø	✓✓✓✓	✓Ø✓	✓✓✓
10/2	RN	✓Ø✓	✓✓✓✓	ØØ✓	✓✓✓	✓✓✓Ø	✓✓✓✓
10/2	R						
Totals		✓= 13 Ø= 2	✓= 11 Ø= 3	✓= 10 Ø= 4	✓= 13 Ø= 1	✓= 9 Ø= 4	✓= 12 Ø= 2

- **Count the total number of failed HH observations by opportunity type**
  - **Enter in the HH data tool**

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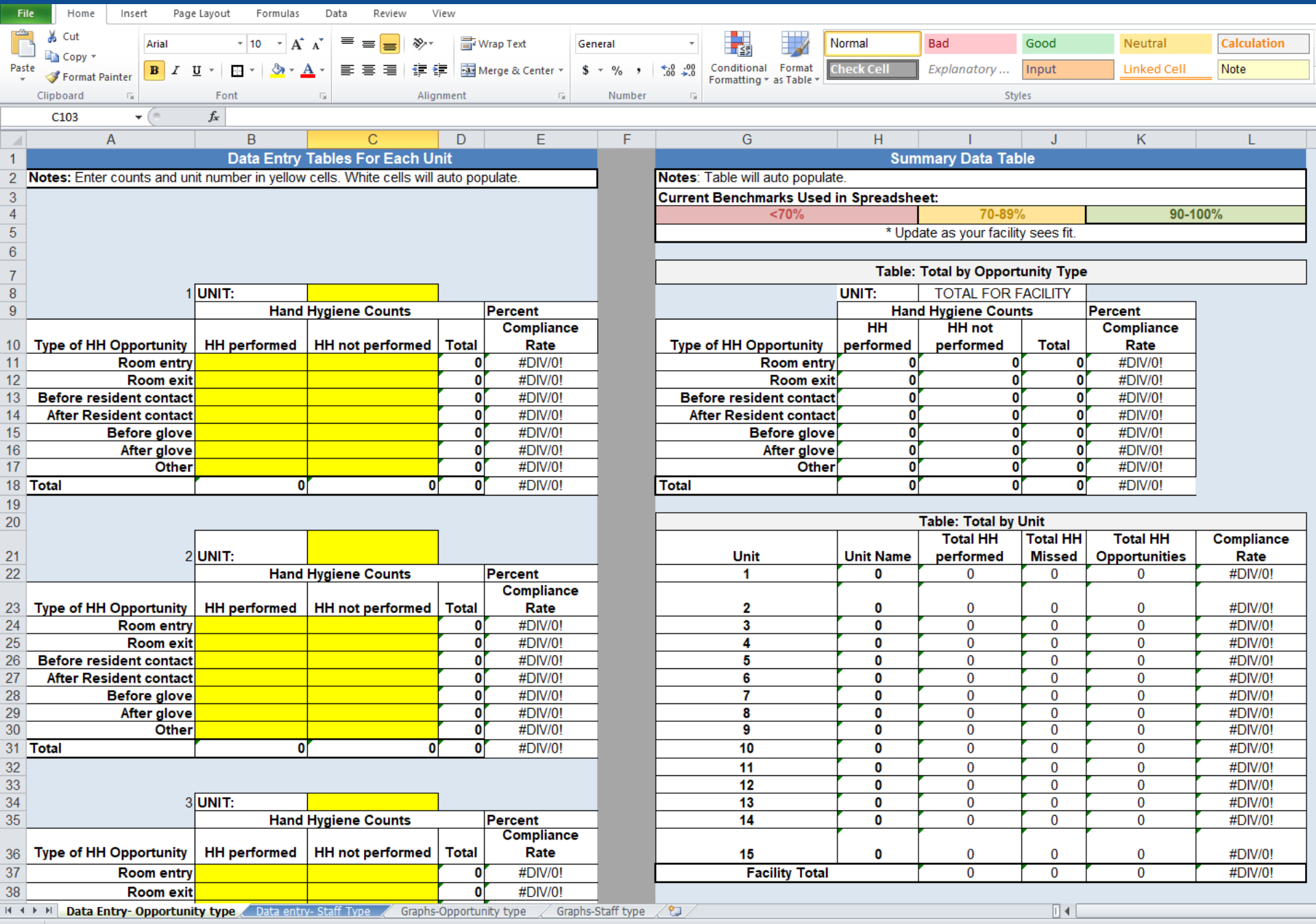
Notes:

Hand Hygiene Toolkit



File Home Insert Page Layout Formulas Data Review View

Cut Copy Format Painter Paste Clipboard

Arial 10 Font

Wrap Text Merge & Center Alignment

General Number

Conditional Formatting Format as Table

Normal Bad Good Neutral Calculation Check Cell Explanatory ... Input Linked Cell Note Styles

C103

Data Entry Tables For Each Unit

Notes: Enter counts and unit number in yellow cells. White cells will auto populate.

1 UNIT:

Type of HH Opportunity	Hand Hygiene Counts: HH performed	HH not performed	Total	Percent Compliance Rate
Room entry			0	#DIV/0!
Room exit			0	#DIV/0!
Before resident contact			0	#DIV/0!
After Resident contact			0	#DIV/0!
Before glove			0	#DIV/0!
After glove			0	#DIV/0!
Other			0	#DIV/0!
Total	0	0	0	#DIV/0!

2 UNIT:

Type of HH Opportunity	Hand Hygiene Counts: HH performed	HH not performed	Total	Percent Compliance Rate
Room entry			0	#DIV/0!
Room exit			0	#DIV/0!
Before resident contact			0	#DIV/0!
After Resident contact			0	#DIV/0!
Before glove			0	#DIV/0!
After glove			0	#DIV/0!
Other			0	#DIV/0!
Total	0	0	0	#DIV/0!

3 UNIT:

Type of HH Opportunity	Hand Hygiene Counts: HH performed	HH not performed	Total	Percent Compliance Rate
Room entry			0	#DIV/0!
Room exit			0	#DIV/0!

Summary Data Table

Notes: Table will auto populate.

Current Benchmarks Used in Spreadsheet:

<70%	70-89%	90-100%

* Update as your facility sees fit.

Table: Total by Opportunity Type

UNIT: TOTAL FOR FACILITY

Type of HH Opportunity	Hand Hygiene Counts: HH performed	HH not performed	Total	Percent Compliance Rate
Room entry	0	0	0	#DIV/0!
Room exit	0	0	0	#DIV/0!
Before resident contact	0	0	0	#DIV/0!
After Resident contact	0	0	0	#DIV/0!
Before glove	0	0	0	#DIV/0!
After glove	0	0	0	#DIV/0!
Other	0	0	0	#DIV/0!
Total	0	0	0	#DIV/0!

Table: Total by Unit

Unit	Unit Name	Total HH performed	Total HH Missed	Total HH Opportunities	Compliance Rate
1	0	0	0	0	#DIV/0!
2	0	0	0	0	#DIV/0!
3	0	0	0	0	#DIV/0!
4	0	0	0	0	#DIV/0!
5	0	0	0	0	#DIV/0!
6	0	0	0	0	#DIV/0!
7	0	0	0	0	#DIV/0!
8	0	0	0	0	#DIV/0!
9	0	0	0	0	#DIV/0!
10	0	0	0	0	#DIV/0!
11	0	0	0	0	#DIV/0!
12	0	0	0	0	#DIV/0!
13	0	0	0	0	#DIV/0!
14	0	0	0	0	#DIV/0!
15	0	0	0	0	#DIV/0!
Facility Total		0	0	0	#DIV/0!

Data Entry- Opportunity type | Data entry- Staff Type | Graphs-Opportunity type | Graphs-Staff type

Ready

Data Entry Tables For Each Unit

Notes: Enter counts and unit number in yellow cells. White cells will auto populate.

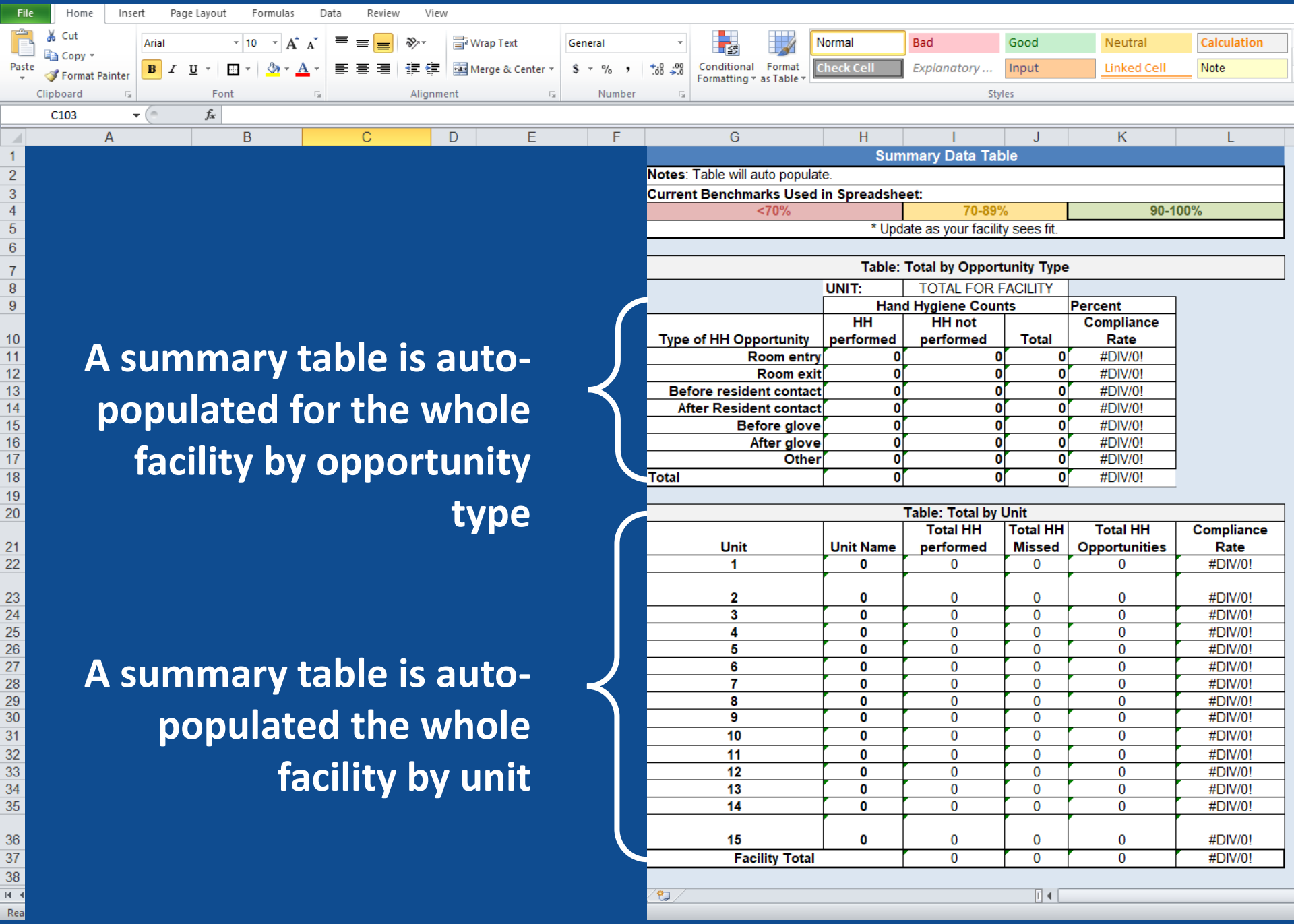
1	UNIT:			
	Hand Hygiene Counts			Percent
Type of HH Opportunity	HH performed	HH not performed	Total	Compliance Rate
Room entry			0	#DIV/0!
Room exit			0	#DIV/0!
Before resident contact			0	#DIV/0!
After Resident contact			0	#DIV/0!
Before glove			0	#DIV/0!
After glove			0	#DIV/0!
Other			0	#DIV/0!
Total	0	0	0	#DIV/0!

2	UNIT:			
	Hand Hygiene Counts			Percent
Type of HH Opportunity	HH performed	HH not performed	Total	Compliance Rate
Room entry			0	#DIV/0!
Room exit			0	#DIV/0!
Before resident contact			0	#DIV/0!
After Resident contact			0	#DIV/0!
Before glove			0	#DIV/0!
After glove			0	#DIV/0!
Other			0	#DIV/0!
Total	0	0	0	#DIV/0!

3	UNIT:			
	Hand Hygiene Counts			Percent
Type of HH Opportunity	HH performed	HH not performed	Total	Compliance Rate
Room entry			0	#DIV/0!
Room exit			0	#DIV/0!

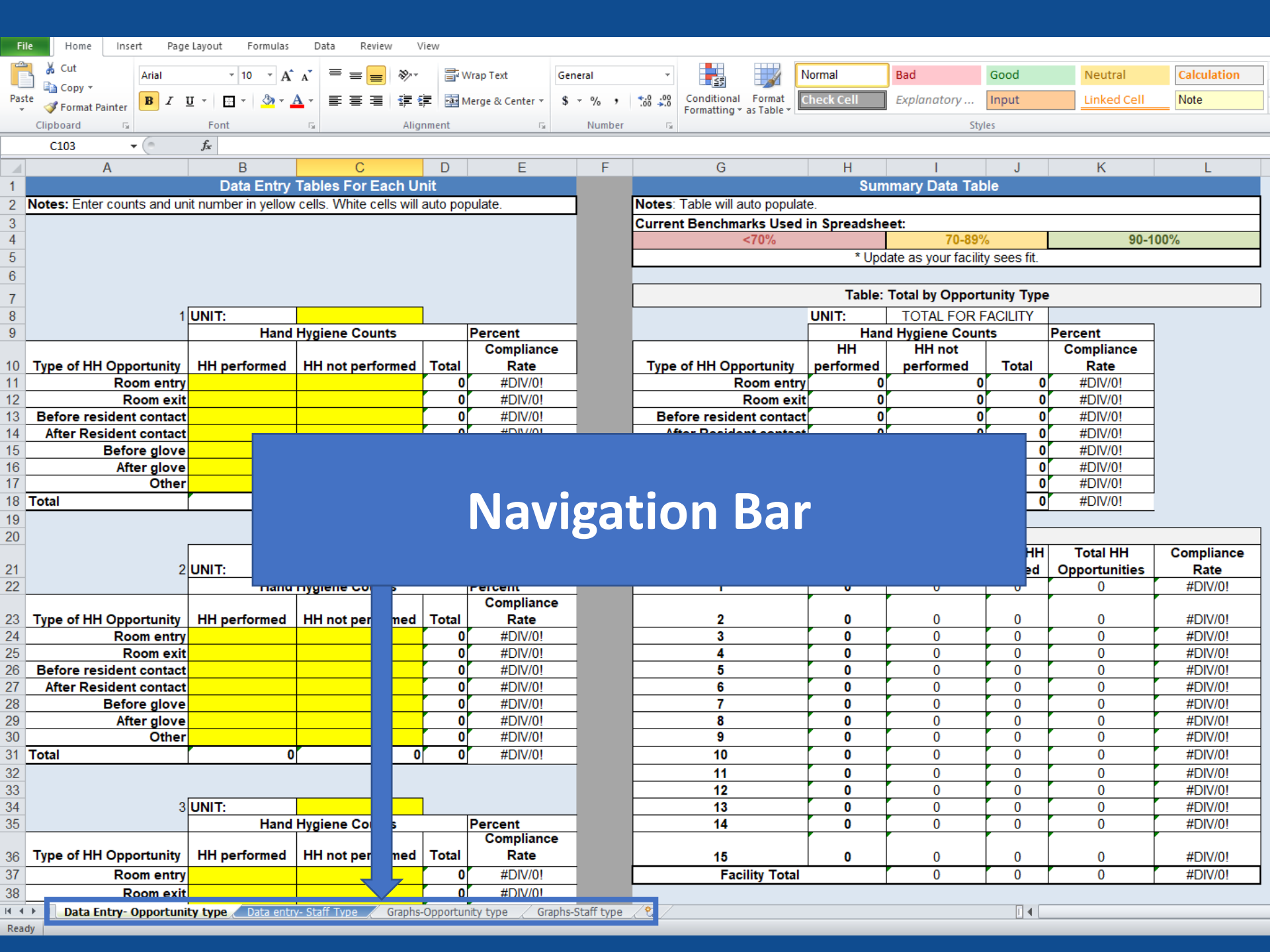
Each units observations are entered in a separate table

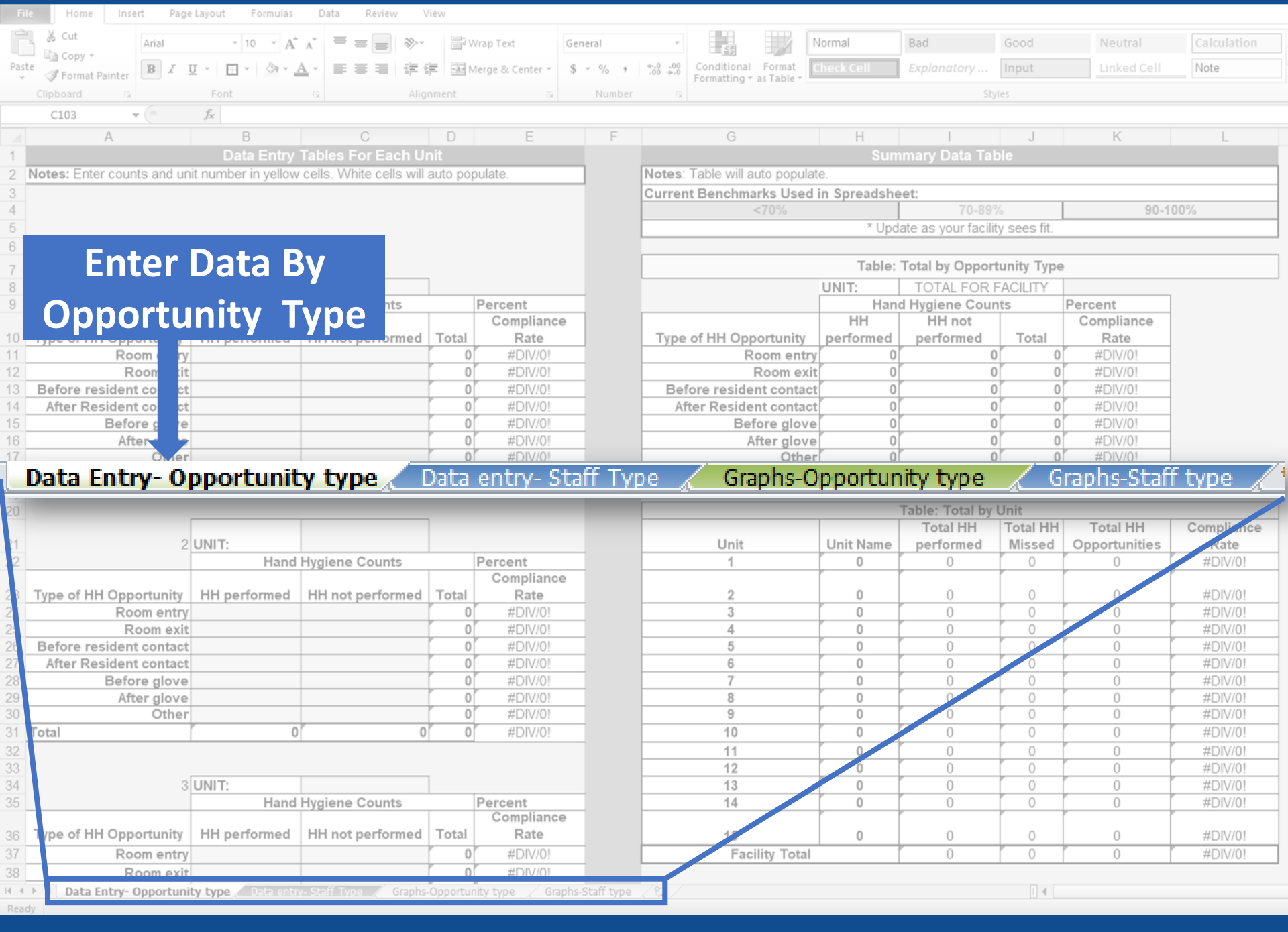
There is enough space for up to 15 units to be entered



A summary table is auto-populated for the whole facility by opportunity type

A summary table is auto-populated the whole facility by unit


File
Home
Insert
Page Layout
Formulas
Data
Review
View
Cut
Copy
Format Painter
Paste
Clipboard
Arial
10
Font
Wrap Text
Merge & Center
Alignment
General
Number
Conditional Formatting
Format as Table
Normal
Bad
Good
Neutral
Calculation
Check Cell
Explanatory ...
Input
Linked Cell
Note
Styles
C103
Data Entry Tables For Each Unit
Notes: Enter counts and unit number in yellow cells. White cells will auto populate.
1 UNIT:
Hand Hygiene Counts
Percent Compliance Rate
Type of HH Opportunity
HH performed
HH not performed
Total
Room entry
Room exit
Before resident contact
After Resident contact
Before glove
After glove
Other
Total
#DIV/0!
2 UNIT:
3 UNIT:
Summary Data Table
Notes: Table will auto populate.
Current Benchmarks Used in Spreadsheet:
<70%
70-89%
90-100%
* Update as your facility sees fit.
Table: Total by Opportunity Type
UNIT:
TOTAL FOR FACILITY
HH not performed
Total HH Opportunities
Facility Total
Navigation Bar
Data Entry- Opportunity type
Data entry- Staff Type
Graphs-Opportunity type
Graphs-Staff type
Ready


Data Entry Tables For Each Unit
Notes: Enter counts and unit number in yellow cells. White cells will auto populate.
Enter Data By Opportunity Type
Summary Data Table
Notes: Table will auto populate.
Current Benchmarks Used in Spreadsheet:
<70%
70-89%
90-100%
* Update as your facility sees fit.
Table: Total by Opportunity Type
UNIT:
TOTAL FOR FACILITY
Hand Hygiene Counts
Percent
Type of HH Opportunity
HH performed
HH not performed
Total
Compliance Rate
Room entry
Room exit
Before resident contact
After Resident contact
Before glove
After glove
Other
Data Entry- Opportunity type
Data entry- Staff Type
Graphs-Opportunity type
Graphs-Staff type
2 UNIT:
3 UNIT:
Total
Table: Total by Unit
Unit
Unit Name
Total HH performed
Total HH Missed
Total HH Opportunities
Compliance Rate
Facility Total

1	UNIT:	Example 1 N		
	Hand Hygiene Counts			Percent
Type of HH Opportunity	HH performed	HH not performed	Total	Compliance Rate
Room entry	13	2	15	87%
Room exit	11	3	14	79%
Before resident contact	10	4	14	71%
After Resident contact	13	1	14	93%
Before glove	9	1	10	90%
After glove	12	2	14	86%
Other	0	0	0	#DIV/0!
Total	68	13	81	84%

Enter Data in the yellow boxes

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1	UNIT:	Example 1 N		
	Hand Hygiene Counts			Percent
Type of HH Opportunity	HH performed	HH not performed	Total	Compliance Rate
Room entry	13	2	15	87%
Room exit	11	3	14	79%
Before resident contact	10	4	14	71%
After Resident contact	13	1	14	93%
Before glove	9	1	10	90%
After glove	12	2	14	86%
Other	0	0	0	#DIV/0!
Total	68	13	81	84%

Total number of observations will auto-populate

1	UNIT:	Example 1 N		
	Hand Hygiene Counts			Percent
Type of HH Opportunity	HH performed	HH not performed	Total	Compliance Rate
Room entry	13	2	15	87%
Room exit	11	3	14	79%
Before resident contact	10	4	14	71%
After Resident contact	13	1	14	93%
Before glove	9	1	10	90%
After glove	12	2	14	86%
Other	0	0	0	#DIV/0!
Total	68	13	81	84%

Compliance rate will auto-populate

1	UNIT:	Example 1 N		
	Hand Hygiene Counts			Percent
Type of HH Opportunity	HH performed	HH not performed	Total	Compliance Rate
Room entry	13	2	15	87%
Room exit	11	3	14	79%
Before resident contact	10	4	14	71%
After Resident contact	13	1	14	93%
Before glove	9	1	10	90%
After glove	12	2	14	86%
Other	0	0	0	#DIV/0!
Total	68	13	81	84%

#DIV/0! Signifies that there were 0 observations made for that opportunity type

Fill in separate tables for each unit

1	UNIT:	Example 1 N		
	Hand Hygiene Counts			Percent
Type of HH Opportunity	HH performed	HH not performed	Total	Compliance Rate
Room entry	13	2	15	87%
Room exit	11	3	14	79%
Before resident contact	10	4	14	71%
After Resident contact	13	1	14	93%
Before glove	9	1	10	90%
After glove	12	2	14	86%
Other	0	0	0	#DIV/0!
Total	68	13	81	84%

2	UNIT:	Example 1 S		
	Hand Hygiene Counts			Percent
Type of HH Opportunity	HH performed	HH not performed	Total	Compliance Rate
Room entry	15	3	18	83%
Room exit	10	2	12	83%
Before resident contact	11	1	12	92%
After Resident contact	9	0	9	100%
Before glove	12	4	16	75%
After glove	8	3	11	73%
Other	0	1	1	0%
Total	5	14	79	82%

An automated summary table is created

Summary Data Table

Notes: Table will auto populate.

Current Benchmarks Used in Spreadsheet:

<70%	70-89%	90-100%

* Update as your facility sees fit.

Table: Total by Opportunity Type

	UNIT:	TOTAL FOR FACILITY		
	Hand Hygiene Counts			Percent
Type of HH Opportunity	HH performed	HH not performed	Total	Compliance Rate
Room entry	45	5	50	90%
Room exit	28	5	33	85%
Before resident contact	21	5	26	81%
After Resident contact	28	1	29	97%
Before glove	26	5	31	84%
After glove	24	5	29	83%
Other	3	1	4	75%
Total	172	27	202	85%

The automated summary table created for the facility by opportunity type

Summary Data Table		
Notes: Table will auto populate.		
Current Benchmarks Used in Spreadsheet:		
<70%	70-89%	90-100%
* Update as your facility sees fit.		

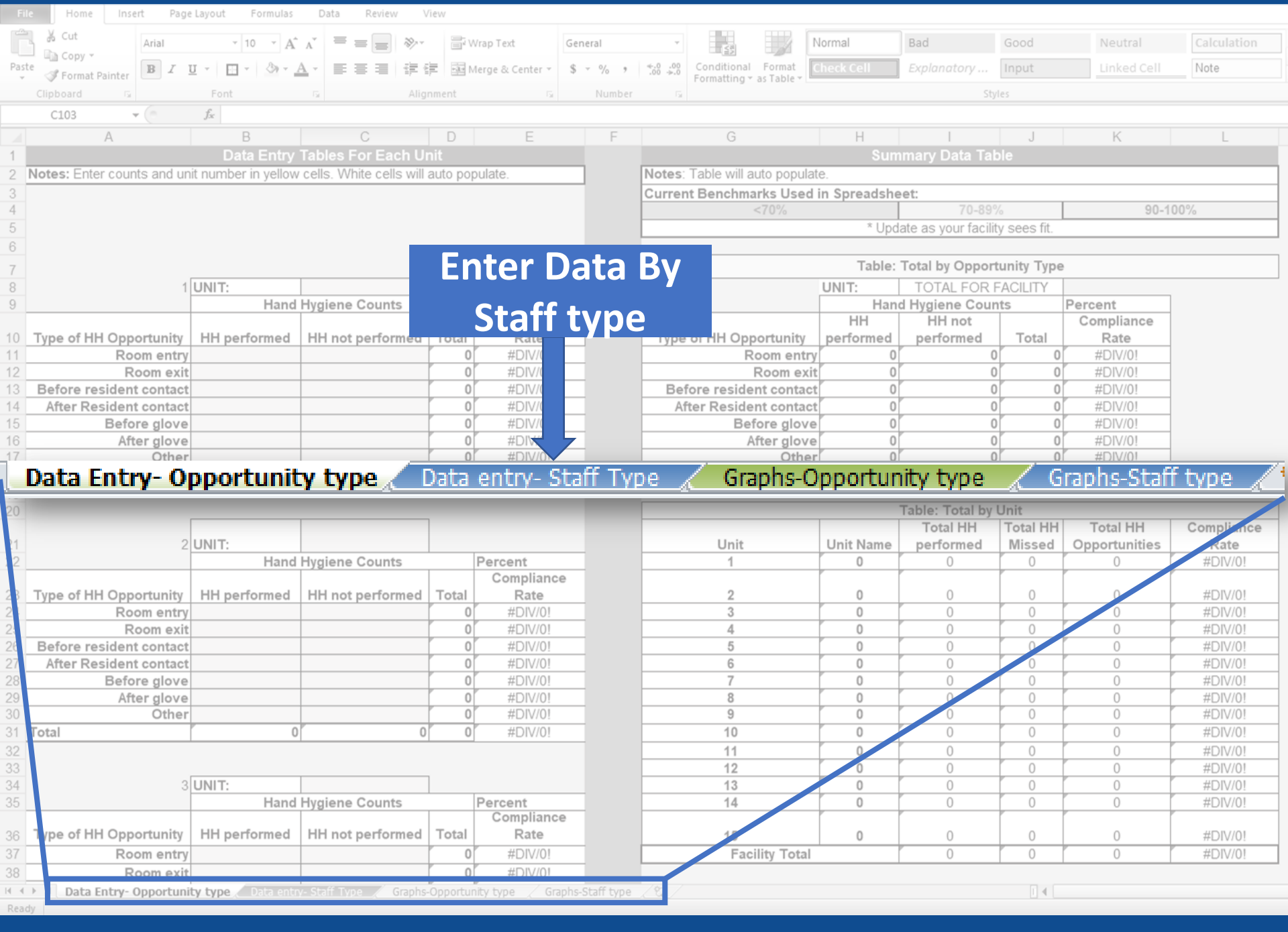
Table: Total by Opportunity Type

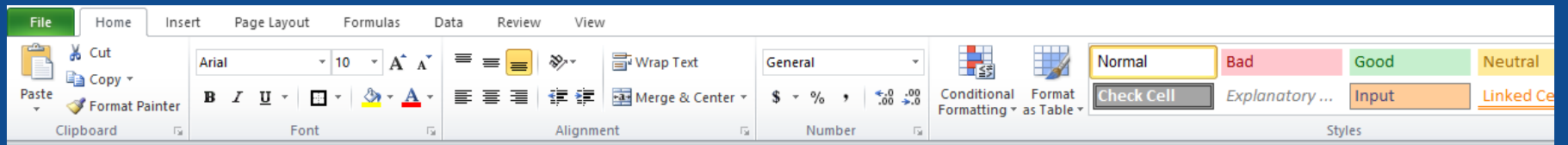
	UNIT:	TOTAL FOR FACILITY		
	Hand Hygiene Counts			Percent
Type of HH Opportunity	HH performed	HH not performed	Total	Compliance Rate
Room entry	45	5	50	90%
Room exit	28	5	33	85%
Before resident contact	21	5	26	81%
After Resident contact	28	1	29	97%
Before glove	26	5	31	84%
After glove	24	5	29	83%
Other	3	1	4	75%
Total	172	27	202	85%

Current benchmark rates are used as an example, but should be adjusted to fit your facility

The automated summary table created for the whole facility by unit

Table: Total by Unit					
Unit	Unit Name	Total HH performed	Total HH Missed	Total HH Opportunities	Compliance Rate
1	Example 1 N	68	13	81	84%
2	Example 1 S	65	14	79	82%
3	3	0	0	0	#DIV/0!
4	4	0	0	0	#DIV/0!
5	5	0	0	0	#DIV/0!
6	6	0	0	0	#DIV/0!
7	7	0	0	0	#DIV/0!
8	8	0	0	0	#DIV/0!
9	9	0	0	0	#DIV/0!
10	10	0	0	0	#DIV/0!
11	11	0	0	0	#DIV/0!
12	12	0	0	0	#DIV/0!
13	13	0	0	0	#DIV/0!
14	14	0	0	0	#DIV/0!
15	15	0	0	0	#DIV/0!
Facility Total		133	27	160	83%


Enter Data By Staff type
Data Entry Tables For Each Unit
Notes: Enter counts and unit number in yellow cells. White cells will auto populate.
Summary Data Table
Notes: Table will auto populate.
Current Benchmarks Used in Spreadsheet:
<70%
70-89%
90-100%
* Update as your facility sees fit.
Table: Total by Opportunity Type
Data Entry- Opportunity type
Data entry- Staff Type
Graphs-Opportunity type
Graphs-Staff type
Table: Total by Unit
Facility Total
Data Entry- Opportunity type
Data entry- Staff Type
Graphs-Opportunity type
Graphs-Staff type



Q12

Data Entry Tables For Each Unit

Notes: Enter counts and unit number in yellow cells. White cells will auto populate.

Staff Key: MD/DO= Physician PA= Physician assistant, NP= Nurse practitioner, RN= Registered nurse, LPN= Licensed practical nurse, CNA= Certified nursing assistant, REHAB= Rehabilitation staff (e.g. physical/ occupational/ speech /respiratory therapist), DIET= Dietary staff, EVS= Environmental services or housekeeping staff, SW= Social worker, RP= Religious personnel (Priest, Pastor, Rabbi, Imam, etc.) OTHER= Volunteer/Research UNK= unknown/ unable to determine

1 UNIT:

Staff type	Hand Hygiene Counts: HH performed	HH not performed	Total	Percentages: Compliance Rate
MD/DO			0	#DIV/0!
PA/NP			0	#DIV/0!
Nursing (RN, LPN, CNA)			0	#DIV/0!
REHAB			0	#DIV/0!
DIET			0	#DIV/0!
EVS			0	#DIV/0!
SW/RP			0	#DIV/0!
OTHER			0	#DIV/0!
TOTAL	0	0	0	#DIV/0!

2 UNIT:

Staff type	Hand Hygiene Counts: HH performed	HH not performed	Total	Percentages: Compliance Rate
MD/DO			0	#DIV/0!
PA/NP			0	#DIV/0!
Nursing (RN, LPN, CNA)			0	#DIV/0!
REHAB			0	#DIV/0!
DIET			0	#DIV/0!
EVS			0	#DIV/0!
SW/RP			0	#DIV/0!
OTHER			0	#DIV/0!
TOTAL	0	0	0	#DIV/0!

3 UNIT:

Staff type	Hand Hygiene Counts: HH performed	HH not performed	Total	Percentages: Compliance Rate
MD/DO			0	#DIV/0!
PA/NP			0	#DIV/0!
Nursing (RN, LPN, CNA)			0	#DIV/0!

Summary Data Table

Notes: Tables will auto populate.

Current Benchmarks Used in Spreadsheet:

<70%	70-89%	90-100%

* Update as your facility sees fit.

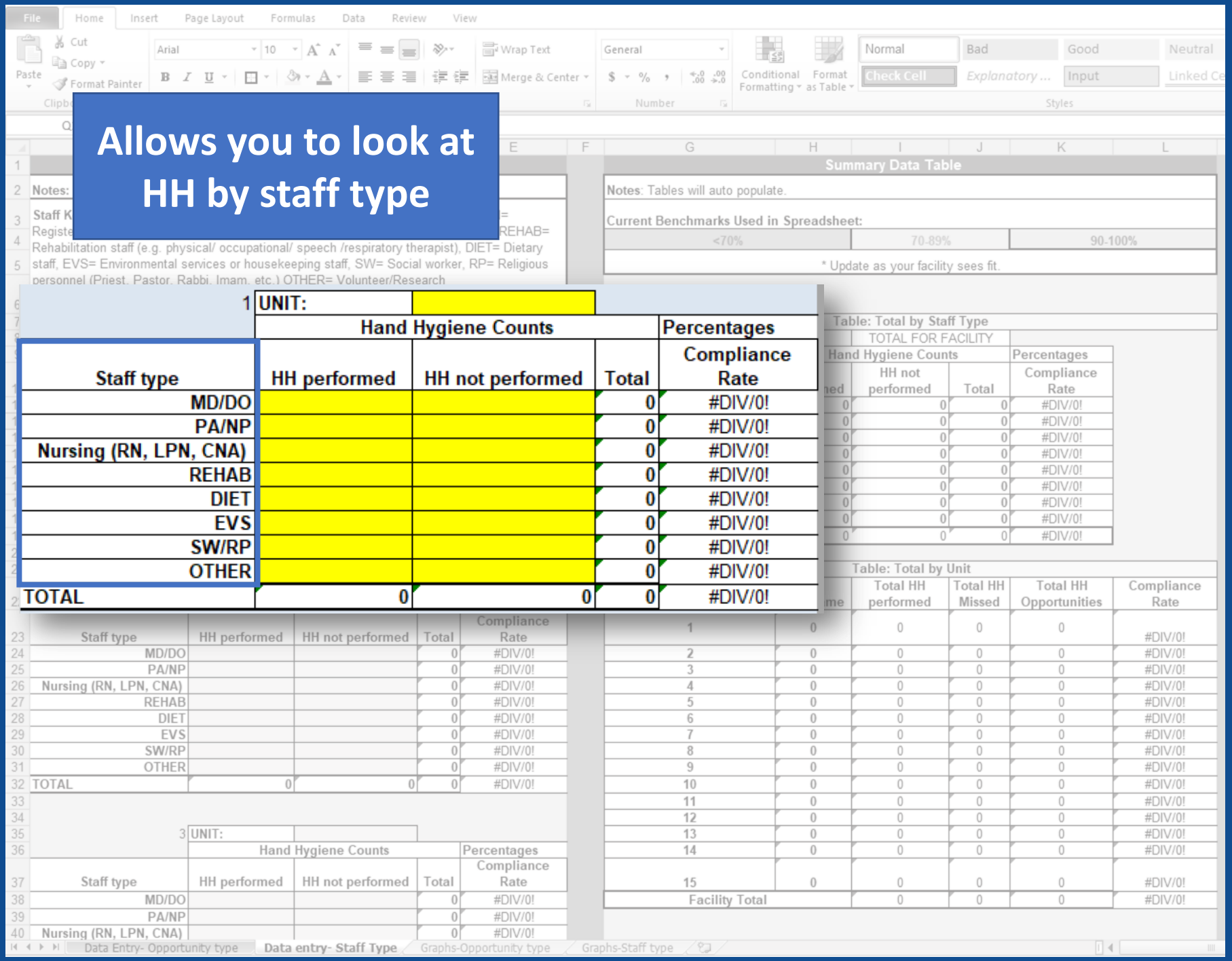
Table: Total by Staff Type

UNIT: TOTAL FOR FACILITY

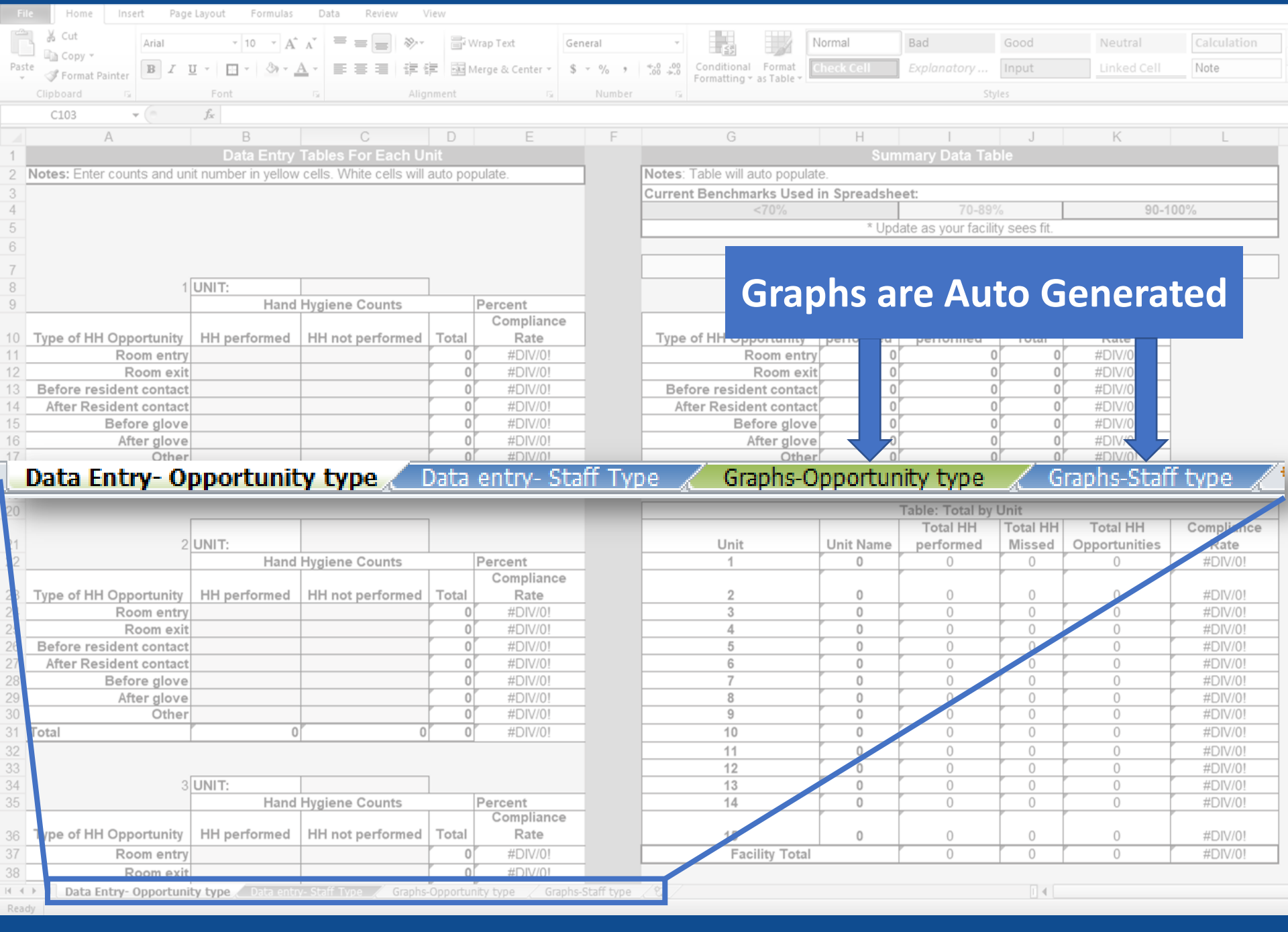
Staff type	Hand Hygiene Counts: HH performed	HH not performed	Total	Percentages: Compliance Rate
MD/DO	0	0	0	#DIV/0!
PA/NP	0	0	0	#DIV/0!
Nursing (RN, LPN, CNA)	0	0	0	#DIV/0!
REHAB	0	0	0	#DIV/0!
DIET	0	0	0	#DIV/0!
EVS	0	0	0	#DIV/0!
SW/RP	0	0	0	#DIV/0!
OTHER	0	0	0	#DIV/0!
TOTAL	0	0	0	#DIV/0!

Table: Total by Unit

Unit	Unit Name	Total HH performed	Total HH Missed	Total HH Opportunities	Compliance Rate
1	0	0	0	0	#DIV/0!
2	0	0	0	0	#DIV/0!
3	0	0	0	0	#DIV/0!
4	0	0	0	0	#DIV/0!
5	0	0	0	0	#DIV/0!
6	0	0	0	0	#DIV/0!
7	0	0	0	0	#DIV/0!
8	0	0	0	0	#DIV/0!
9	0	0	0	0	#DIV/0!
10	0	0	0	0	#DIV/0!
11	0	0	0	0	#DIV/0!
12	0	0	0	0	#DIV/0!
13	0	0	0	0	#DIV/0!
14	0	0	0	0	#DIV/0!
15	0	0	0	0	#DIV/0!
Facility Total		0	0	0	#DIV/0!


Allows you to look at HH by staff type
Summary Data Table
Notes: Tables will auto populate.
Current Benchmarks Used in Spreadsheet:
<70%
70-89%
90-100%
* Update as your facility sees fit.
1 UNIT:
Hand Hygiene Counts
Percentages
Staff type
HH performed
HH not performed
Total
Compliance Rate
MD/DO 0 #DIV/0!
PA/NP 0 #DIV/0!
Nursing (RN, LPN, CNA) 0 #DIV/0!
REHAB 0 #DIV/0!
DIET 0 #DIV/0!
EVS 0 #DIV/0!
SW/RP 0 #DIV/0!
OTHER 0 #DIV/0!
TOTAL 0 0 0 #DIV/0!
Table: Total by Staff Type
TOTAL FOR FACILITY
Table: Total by Unit
Total HH performed
Total HH Missed
Total HH Opportunities
Facility Total
3 UNIT:
Data Entry- Opportunity type
Data entry- Staff Type
Graphs-Opportunity type
Graphs-Staff type

Visualizing the Data


Graphs are Auto Generated
Data Entry- Opportunity type
Data entry- Staff Type
Graphs-Opportunity type
Graphs-Staff type
Data Entry Tables For Each Unit
Notes: Enter counts and unit number in yellow cells. White cells will auto populate.
Summary Data Table
Notes: Table will auto populate.
Current Benchmarks Used in Spreadsheet:
<70%
70-89%
90-100%
* Update as your facility sees fit.
1 UNIT:
Hand Hygiene Counts
Percent Compliance Rate
Type of HH Opportunity
HH performed
HH not performed
Total
Room entry
Room exit
Before resident contact
After Resident contact
Before glove
After glove
Other
2 UNIT:
Total
3 UNIT:
Table: Total by Unit
Unit
Unit Name
Total HH performed
Total HH Missed
Total HH Opportunities
Compliance Rate
Facility Total
#DIV/0!

File Home Insert Page Layout Formulas Data Review View

Paste Cut Copy Format Painter — Clipboard

Arial 10 — Font

Wrap Text Merge & Center — Alignment

General — Number

Conditional Formatting Format as Table

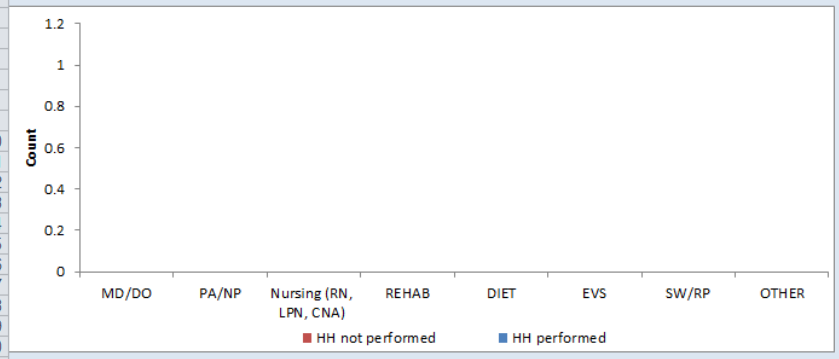
Normal Bad Good Neutral Calculation Check Cell Explanatory ... Input Linked Cell Note — Styles

Insert Delete Format — Cells

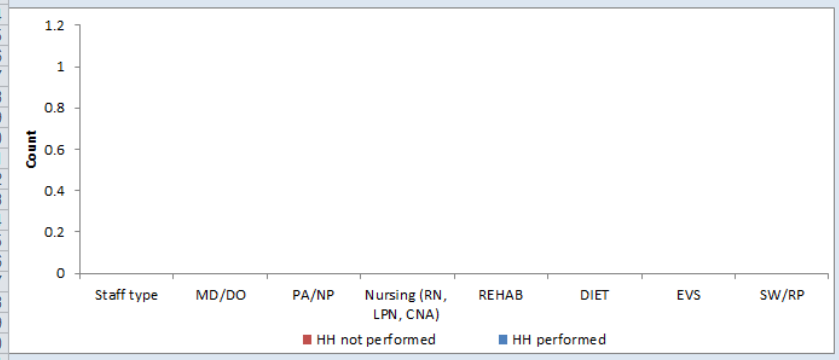
C2 ='Data Entry- Opportunity type'!C8

Hand Hygiene Graphs by Staff Type For Each Unit

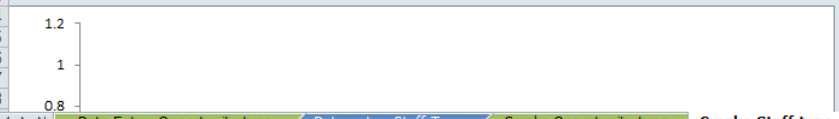
1 **HH observations on Unit:** 0



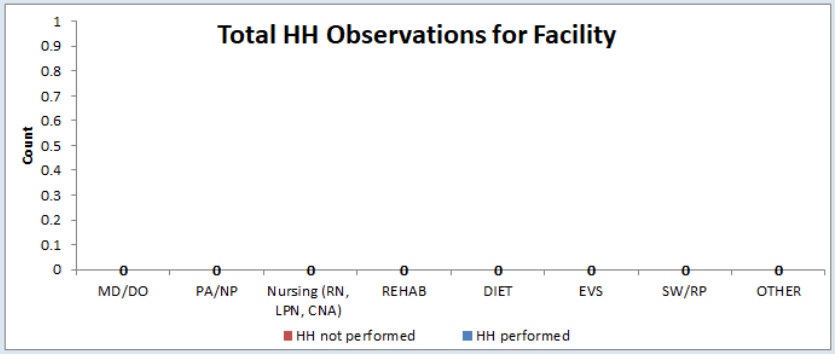
2 **HH observations on Unit:** 0



3 **HH observations on Unit:** 0

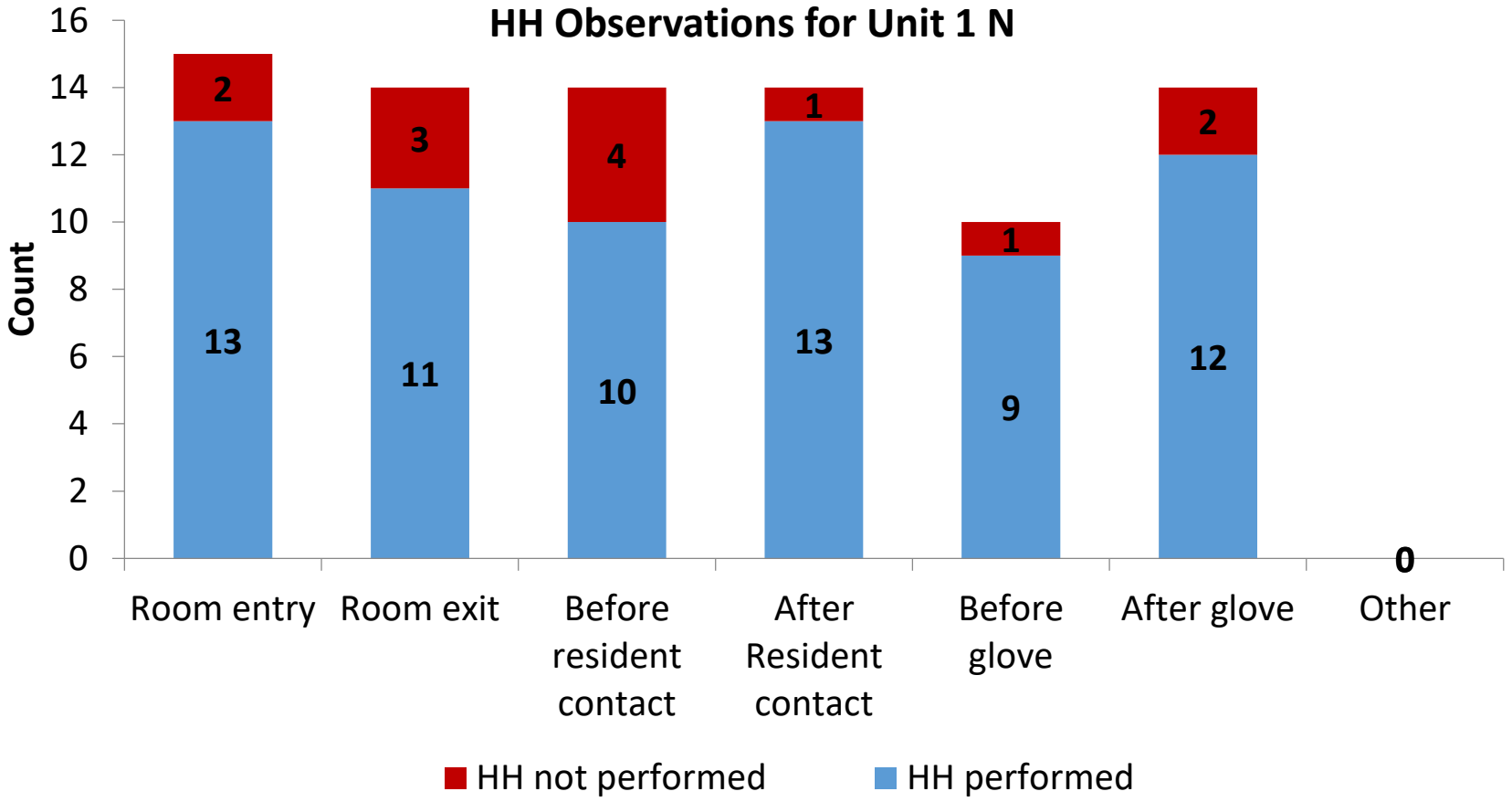


Hand Hygiene Graphs by Staff Type For The Facility

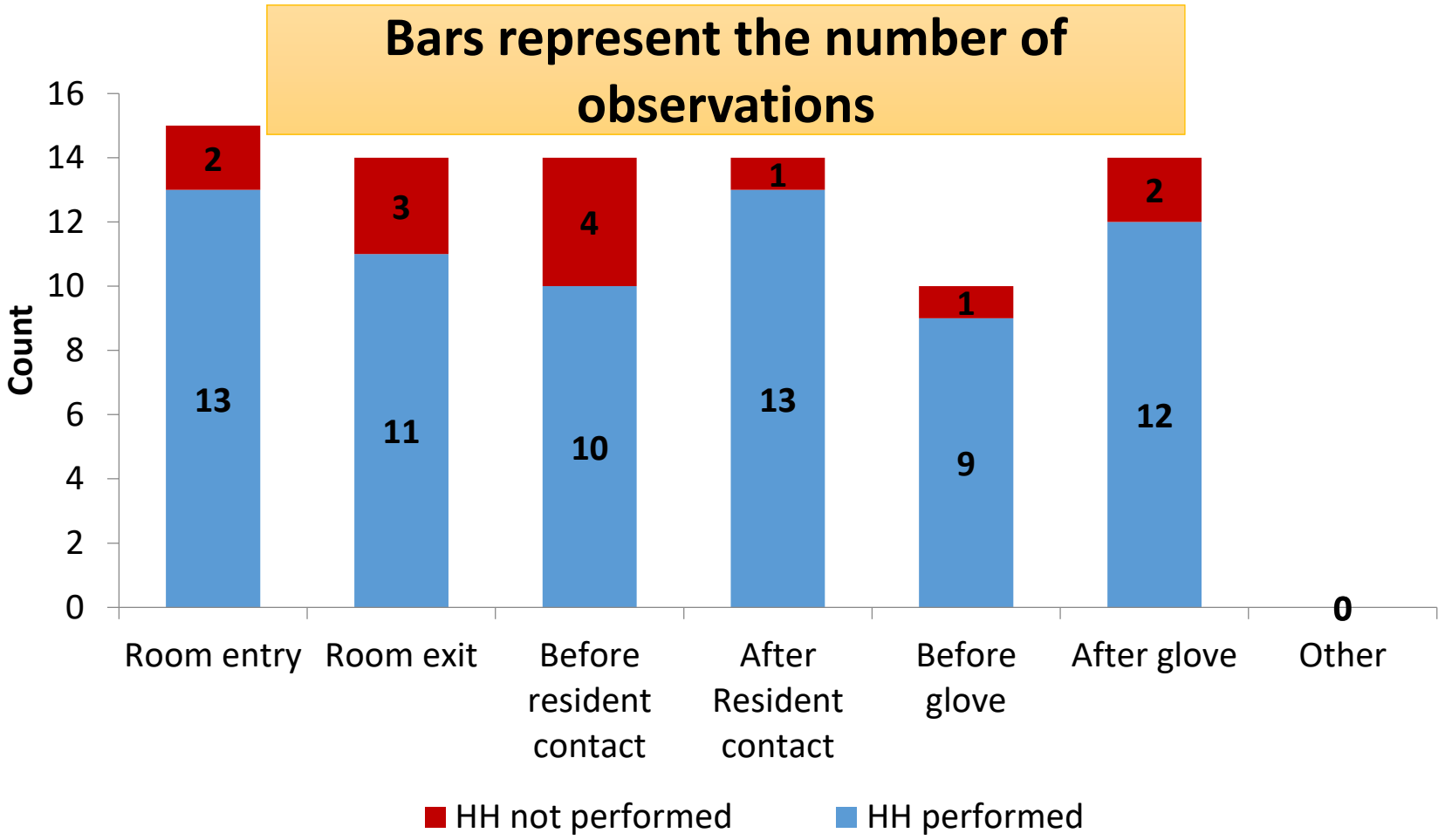


Data Entry- Opportunity type | Data entry- Staff Type | Graphs-Opportunity type | **Graphs-Staff type**

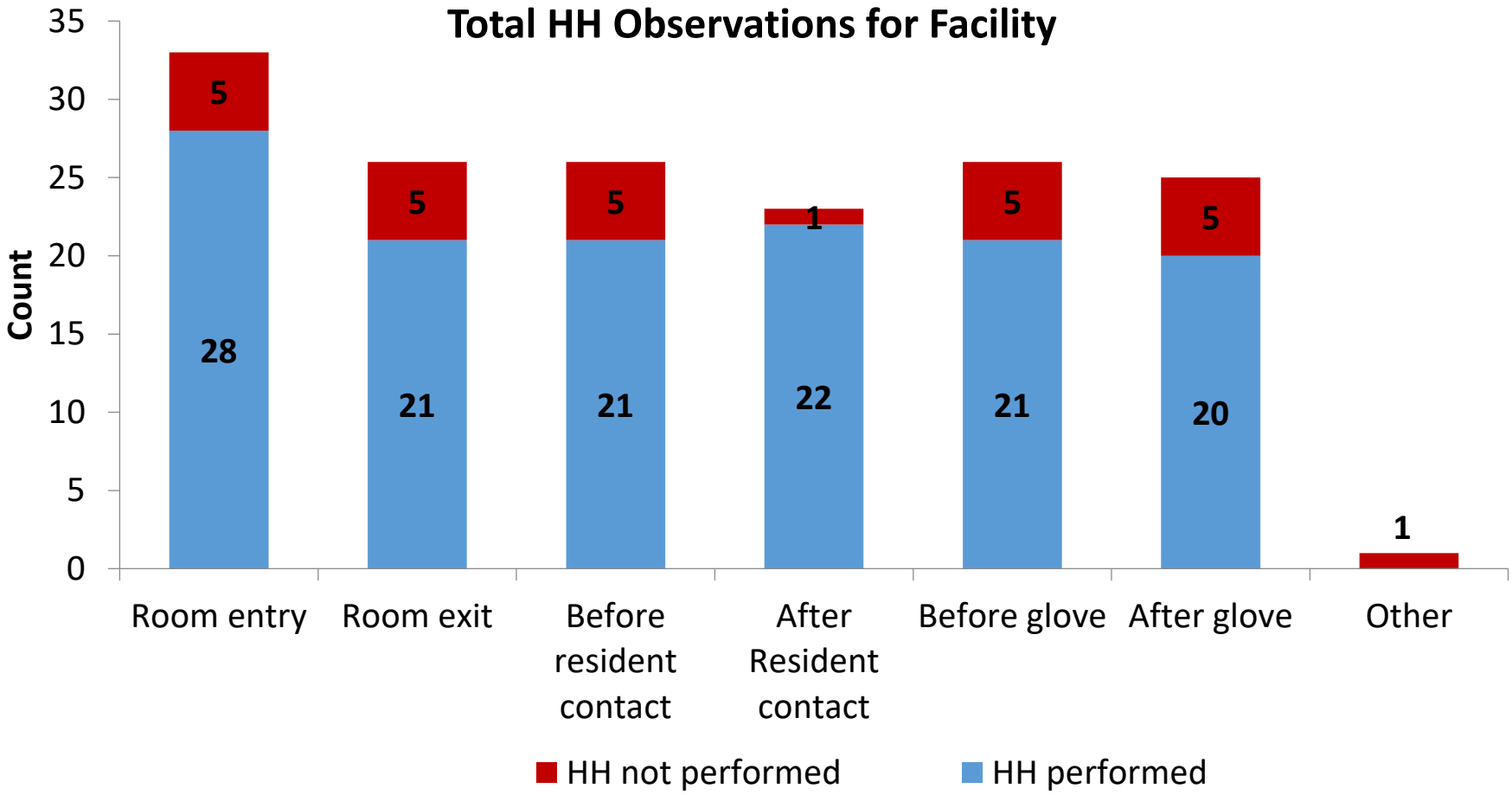
A graph is created for each unit



A graph is created for each unit

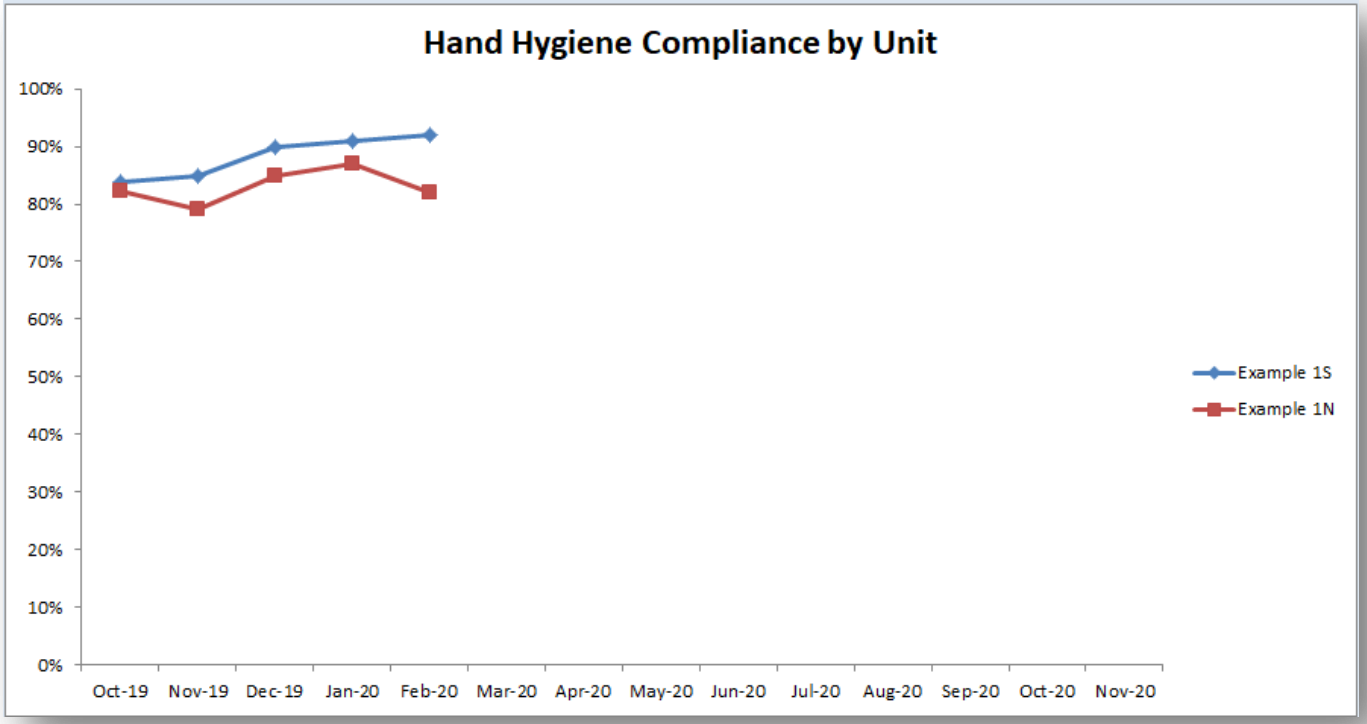


A summary graph is created for the facility



Future Goals

- Ability to track data over time



Identifying an Outbreak

	A	B	C	D	E	F
1	Influenza Like Illness Data Entry Table					
2	Instructions:	Enter the date and the number of laboratory confirmed and influenza like illness cases found each day. Describe any internventions that took place in the 'Intervention Instituted' column. If an intervention was instituted enter a 1 in the "Intervention Instituted?" Column and leave blank if no interventions were instituted that day.				
3						
4						
5	Unit:		Number of cases			
6	Dates of onset	Date	Laboratory Confirmed	Influenza Like Illness	Intervention Instituted (describe)	Intervention Instituted? (Enter a 1 if an intervention was instituted, otherwise leave blank)
7	Date 1:					
8	Date 2:					
9	Date 3:					
10	Date 4:					
11	Date 5:					
12	Date 6:					
13	Date 7:					

An example of the blank spreadsheet for tracking influenza like illnesses by unit or the whole facility

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	A	B	C	D	E	F
1	**Influenza Like Illness Data Entry Table**					
2	**Instructions:**	**Enter the date and the number of laboratory confirmed and influenza like illness cases found each day. Describe any internventions that took place in the 'Intervention Instituted' column. If an intervention was instituted enter a 1 in the "Intervention Instituted?" Column and leave blank if no interventions were instituted that day.**				
3						
4						
5	Unit:		**Number of cases**			
6	**Dates of onset**	**Date**	**Laboratory Confirmed**	**Influenza Like Illness**	**Intervention Instituted (describe)**	**Intervention Instituted? (Enter a 1 if an intervention was instituted, otherwise leave blank)**
7	**Date 1:**					
8	**Date 2:**					
9	**Date 3:**					
10	**Date 4:**					
11	**Date 5:**					
12	**Date 6:**					
13	**Date 7:**					

Change the column titles to adjust for other conditions

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Unit:	Example 1 N	Number of cases			
Dates of onset	Date	Laboratory Confirmed	Influenza Like Illness	Intervention Instituted (describe)	Intervention Instituted? (Enter a 1 if an intervention was instituted, otherwise leave blank)
Date 1:	9/15/2019	1	0	Droplet precautions	1
Date 2:	9/16/2019	0	0		
Date 3:	9/17/2019	0	0		
Date 4:	9/18/2019	0	2	Initiate active surveillance	1
Date 5:	9/19/2019	1	1	Initiate staff screening	1
Date 6:	9/20/2019	1	2	Unit closed to visitors	1
Date 7:	9/21/2019	1	3	Residents confined to their rooms	1
Date 8:	9/22/2019	1	2		
Date 9:	9/23/2019	0	1		
Date 10:	9/24/2019	0	0		
Date 11:	9/25/2019	0	0		
Date 12:	9/26/2019	1	0		
Date 13:	9/27/2019	0	0		
Date 14:	9/28/2019	0	0		
Date 15:	9/29/2019	0	0		
Date 16:	9/30/2019	0	0		
Date 17:	10/1/2019	0	0		
Date 18:	10/2/2019	0	0	Unit opened	1

Example of a filled in surveillance sheet

Unit:	Example 1 N	Number of cases			
Dates of onset	Date	Laboratory Confirmed	Influenza Like Illness	Intervention Instituted (describe)	Intervention Instituted? (Enter a 1 if an intervention was instituted, otherwise leave blank)
Date 1:	9/15/2019	1	0	Droplet precautions	1
Date 2:	9/16/2019	0	0		
Date 3:	9/17/2019	0	0		
Date 4:	9/18/2019	0	2	Initiate active surveillance	1
Date 5:	9/19/2019	1	1	Initiate staff screening	1
Date 6:	9/20/2019	1	2	Unit closed to visitors	1
Date 7:	9/21/2019	1	3	Residents confined to their rooms	1
Date 8:	9/22/2019	1	2		
Date 9:	9/23/2019	0	1		
Date 10:	9/24/2019	0	0		
Date 11:	9/25/2019	0	0		
Date 12:	9/26/2019	1	0		
Date 13:	9/27/2019	0	0		
Date 14:	9/28/2019	0	0		
Date 15:	9/29/2019	0	0		
Date 16:	9/30/2019	0	0		
Date 17:	10/1/2019	0	0		
Date 18:	10/2/2019	0	0	Unit opened	1

Enter the date

Unit:	Example 1 N	Number of cases			
Dates of onset	Date	Laboratory Confirmed	Influenza Like Illness	Intervention Instituted (describe)	Intervention Instituted? (Enter a 1 if an intervention was instituted, otherwise leave blank)
Date 1:	9/15/2019	1	0	Droplet precautions	1
Date 2:	9/16/2019	0	0		
Date 3:	9/17/2019	0	0		
Date 4:	9/18/2019	0	2	Initiate active surveillance	1
Date 5:	9/19/2019	1	1	Initiate staff screening	1
Date 6:	9/20/2019	1	2	Unit closed to visitors	1
Date 7:	9/21/2019	1	3	Residents confined to their rooms	1
Date 8:	9/22/2019	1	2		
Date 9:	9/23/2019	0	1		
Date 10:	9/24/2019	0	0		
Date 11:	9/25/2019	0	0		
Date 12:	9/26/2019	1	0		
Date 13:	9/27/2019	0	0		
Date 14:	9/28/2019	0	0		
Date 15:	9/29/2019	0	0		
Date 16:	9/30/2019	0	0		
Date 17:	10/1/2019	0	0		
Date 18:	10/2/2019	0	0	Unit opened	1

Enter the number of laboratory confirmed cases

Unit:	Example 1 N	Number of cases			
Dates of onset	Date	Laboratory Confirmed	Influenza Like Illness	Intervention Instituted (describe)	Intervention Instituted? (Enter a 1 if an intervention was instituted, otherwise leave blank)
Date 1:	9/15/2019	1	0	Droplet precautions	1
Date 2:	9/16/2019	0	0		
Date 3:	9/17/2019	0	0		
Date 4:	9/18/2019	0	2	Initiate active surveillance	1
Date 5:	9/19/2019	1	1	Initiate staff screening	1
Date 6:	9/20/2019	1	2	Unit closed to visitors	1
Date 7:	9/21/2019	1	3	Residents confined to their rooms	1
Date 8:	9/22/2019	1	2		
Date 9:	9/23/2019	0	1		
Date 10:	9/24/2019	0	0		
Date 11:	9/25/2019	0	0		
Date 12:	9/26/2019	1	0		
Date 13:	9/27/2019	0	0		
Date 14:	9/28/2019	0	0		
Date 15:	9/29/2019	0	0		
Date 16:	9/30/2019	0	0		
Date 17:	10/1/2019	0	0		
Date 18:	10/2/2019	0	0	Unit opened	1

Enter the number of influenza like illness cases

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Unit:	Example 1 N	Number of cases			
Dates of onset	Date	Laboratory Confirmed	Influenza Like Illness	Intervention Instituted (describe)	Intervention Instituted? (Enter a 1 if an intervention was instituted, otherwise leave blank)
Date 1:	9/15/2019	1	0	Droplet precautions	1
Date 2:	9/16/2019	0	0		
Date 3:	9/17/2019	0	0		
Date 4:	9/18/2019	0	2	Initiate active surveillance	1
Date 5:	9/19/2019	1	1	Initiate staff screening	1
Date 6:	9/20/2019	1	2	Unit closed to visitors	1
Date 7:	9/21/2019	1	3	Residents confined to their rooms	1
Date 8:	9/22/2019	1	2		
Date 9:	9/23/2019	0	1		
Date 10:	9/24/2019	0	0		
Date 11:	9/25/2019	0	0		
Date 12:	9/26/2019	1	0		
Date 13:	9/27/2019	0	0		
Date 14:	9/28/2019	0	0		
Date 15:	9/29/2019	0	0		
Date 16:	9/30/2019	0	0		
Date 17:	10/1/2019	0	0		
Date 18:	10/2/2019	0	0	Unit opened	1

Describe any interventions instituted

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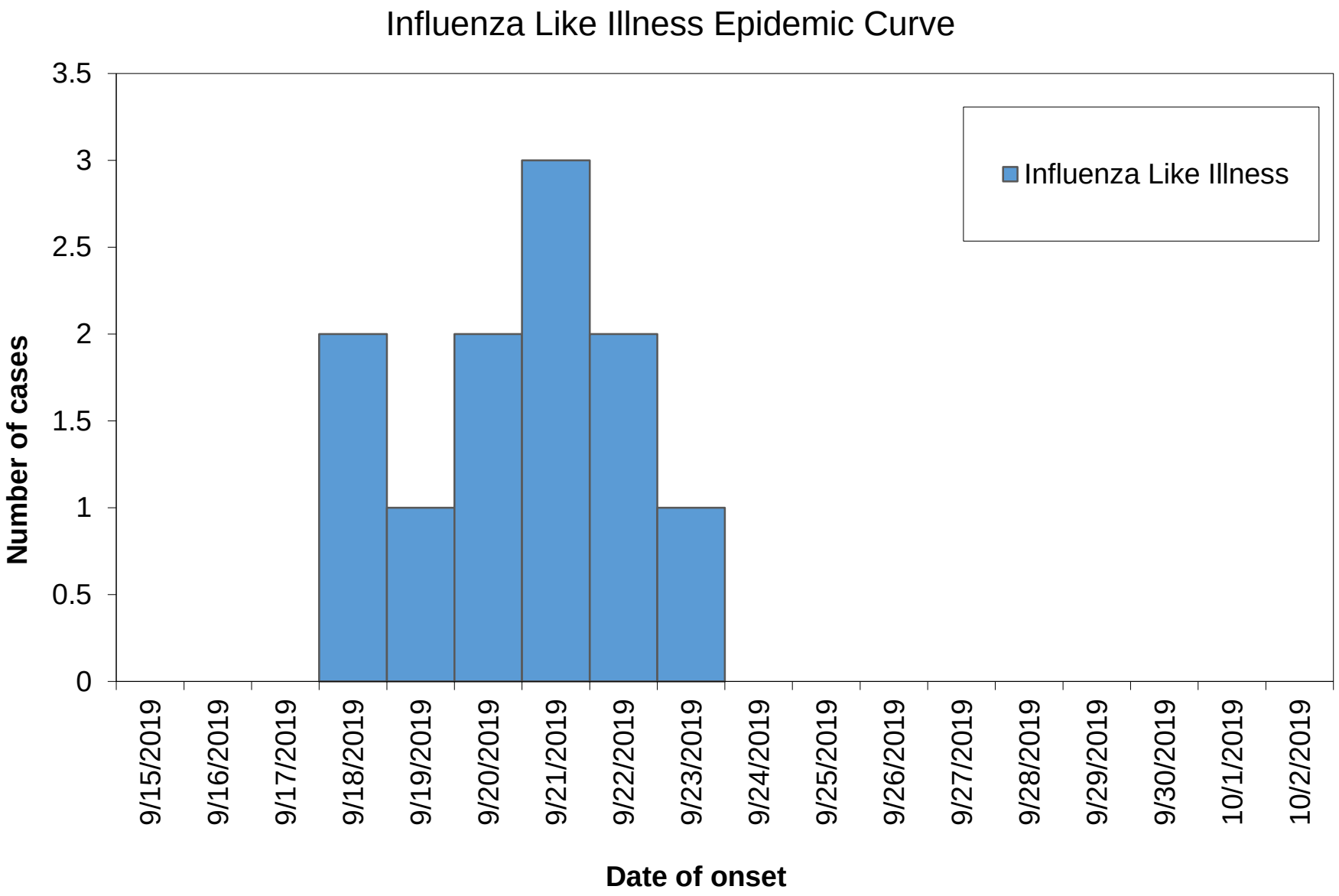
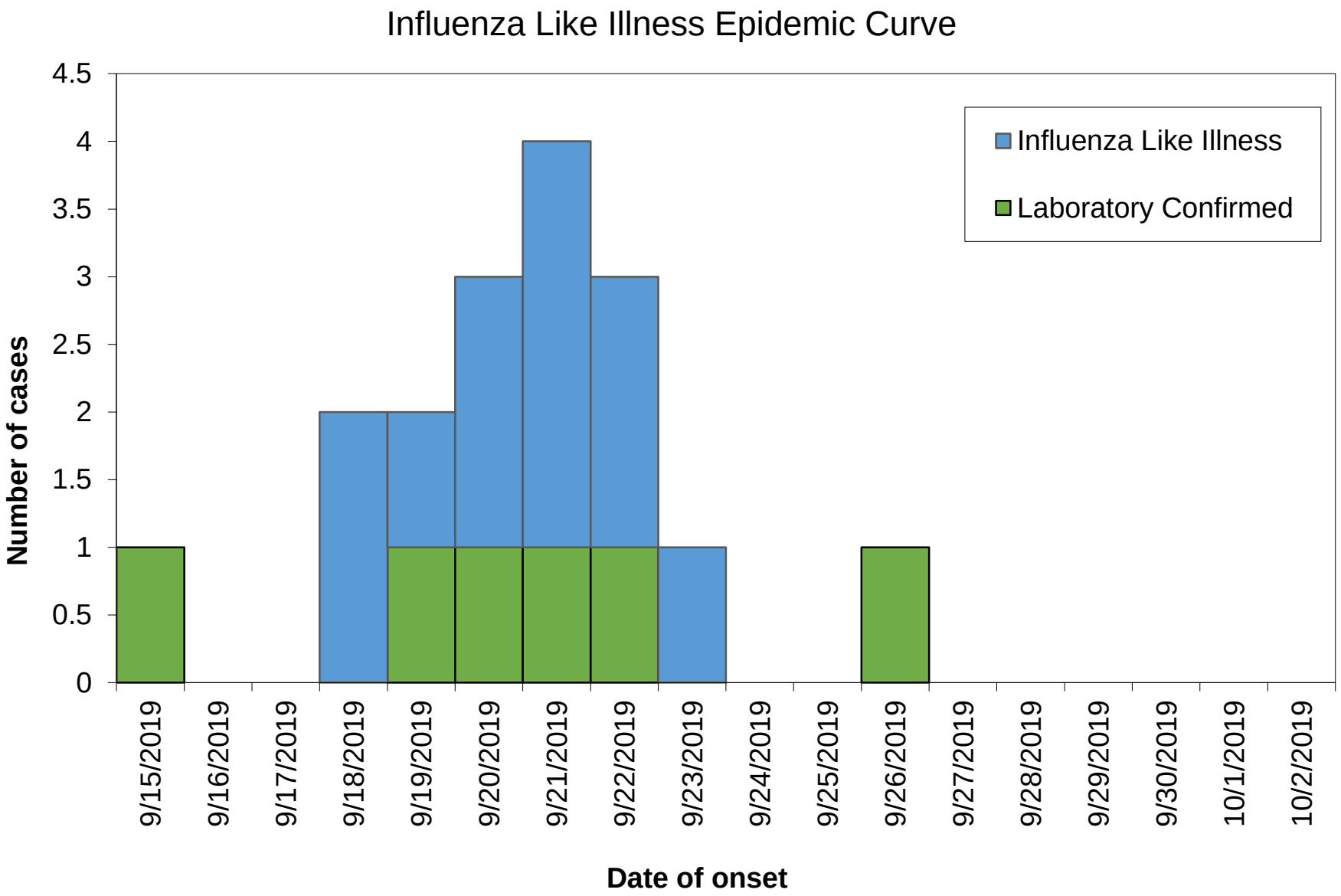
Unit:	Example 1 N	Number of cases			
Dates of onset	Date	Laboratory Confirmed	Influenza Like Illness	Intervention Instituted (describe)	Intervention Instituted? (Enter a 1 if an intervention was instituted, otherwise leave blank)
Date 1:	9/15/2019	1	0	Droplet precautions	1
Date 2:	9/16/2019	0	0		
Date 3:	9/17/2019	0	0		
Date 4:	9/18/2019	0	2	Initiate active surveillance	1
Date 5:	9/19/2019	1	1	Initiate staff screening	1
Date 6:	9/20/2019	1	2	Unit closed to visitors	1
Date 7:	9/21/2019	1	3	Residents confined to their rooms	1
Date 8:	9/22/2019	1	2		
Date 9:	9/23/2019	0	1		
Date 10:	9/24/2019	0	0		
Date 11:	9/25/2019	0	0		
Date 12:	9/26/2019	1	0		
Date 13:	9/27/2019	0	0		
Date 14:	9/28/2019	0	0		
Date 15:	9/29/2019	0	0		
Date 16:	9/30/2019	0	0		
Date 17:	10/1/2019	0	0		
Date 18:	10/2/2019	0	0	Unit opened	1

Enter a "1" if an intervention(s) was instituted, otherwise leave blank

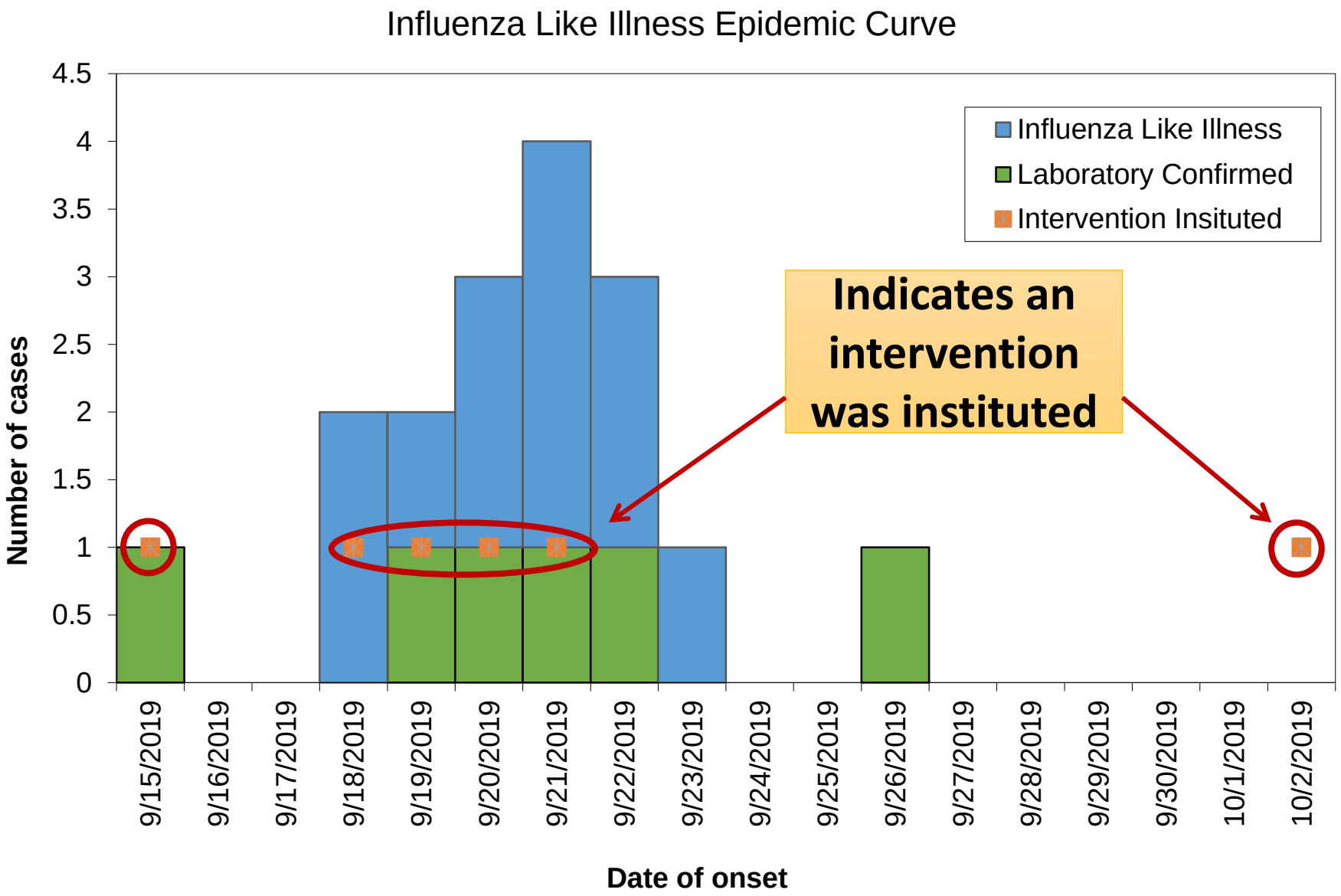
The toolkit will automatically create the figure below



The toolkit will automatically create the figure below



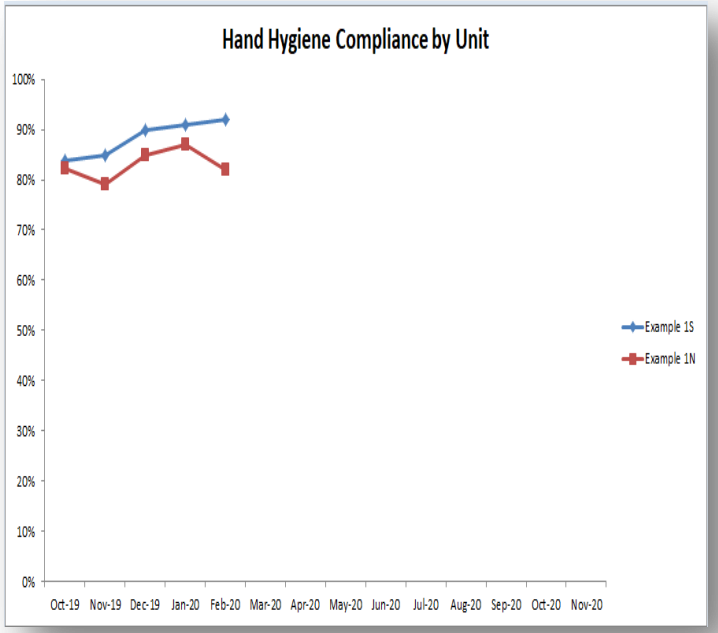
The toolkit will automatically create the figure below



Interpret and Disseminate the Data

Interpret and Use the Data

- Informs IPC program activities
- Identifies practice improvement needs
- Monitor compliance over time to establish your baseline



Share Data with Stakeholders

- Facility leadership and frontline staff
- IPC/QAPI Committee Meetings
- Residents and families

Next Steps

- Document all your hand hygiene observations
- Use the data entry tools
- Display data at your IPC and/or QAPI meetings
- Sign-up for our LTC working group
- Stay-tuned for upcoming webinar on surveillance and data tools

QUESTIONS

Contact Information

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THANK YOU