

# Using the SBAR to Ask for More



Catherine Liu, MD Professor, Vaccine and Infectious Disease Division Medical Director, Antimicrobial Stewardship and OPAT Programs Fred Hutchinson Cancer Center

### Disclosures

• Pfizer – research support

# **Fred Hutchinson Cancer Center**

- ~ 20-bed inpatient hospital + ~ 120
   inpatient oncology beds based at UW
- Large ambulatory cancer center
  - New clinic building opened March 2023 as extension of South Lake Union clinic
  - 5 additional outpatient clinic locations (King & Kitsap counties)





# **FHCC Antimicrobial Stewardship Program**



# What Do You Need?



- Personnel (PharmD, MD FTE)
- Data analytics support
- Project management
- Space computer workstations
- Materials pocket cards, posters
- Inpatient/ outpatient/ infusion center support

5

# **Pitching Antimicrobial Stewardship to the C-Suite**



6



- Regulatory requirements
- Quality improvement goals
- Sentinel events/ patient safety
- Peer comparisons
- Regional/ national reputation

# Using the SBAR to Request PharmD Support

# **SBAR**

- A communication tool that helps provide essential, concise information, usually during crucial situations
- Situation: Concise statement of problem, e.g. existing support insufficient
- **Background:** Essential information related to the situation, supporting evidence that justifies request
- Assessment: Analysis and consideration of risks, benefits
- Recommendation: Action requested/ recommended, e.g. request increase from 0.5 → 1.0 FTE PharmD

# **<u>Situation</u>: Pharmacist Resources Needed for Inpatient ASP Activities</u>**

- Existing 0.5 FTE PharmD support primarily focused on OPAT and <u>outpatient</u> activities
- Additional PharmD support requested for <u>inpatient</u> efforts and growth opportunities:
  - Prospective audit and feedback
  - $\circ$  Microbiology review
  - Guideline development
  - Sepsis improvement efforts
  - Inpatient rounds
  - Coordinate roll-out of new EMR (Epic)

### • **<u>Recommendation</u>**: Request additional 1.0 FTE PharmD

# **<u>Background</u>: Align Request with Institutional Quality Improvement Goals</u>**

- Sepsis
  - Optimize antimicrobial dosing/ administration
  - Timely antibiotic initiation/ deescalation
  - Case review of sepsis-related deaths
- HAI Metrics & Diagnostic Stewardship
  - HO-C. difficile infection
  - CAUTI
  - CLABSI



#### **SHEA Position Paper**

## Diagnostic stewardship to improve patient outcomes and healthcare-associated infection (HAI) metrics

Harjot K. Singh MD, ScM<sup>1</sup>, Kimberly C. Claeys PharmD, PhD<sup>2</sup> , Sonali D. Advani MBBS, MPH<sup>3</sup> , Yolanda J. Ballam BS, CIC<sup>4</sup>, Jessica Penney MD, MPHTM, MS<sup>5</sup> , Kirsten M. Schutte MD<sup>6</sup>, Christopher Baliga MD<sup>7</sup> , Aaron M. Milstone MD, MHS<sup>8</sup> , Mary K. Hayden MD<sup>9</sup> , Daniel J. Morgan MD, MS<sup>10,11</sup> and Daniel J. Diekema MD, MS<sup>12,13</sup>

"Diagnostic stewardship seeks to improve ordering, collection, performance, and reporting of tests...inclusion of HAIs in public reporting and pay for performance programs has highlighted **the value of diagnostic stewardship as part of infection prevention initiatives**."

CAUTI	<ul> <li>Ordering <ul> <li>Require guideline-supported indications for urine cultures.</li> <li>Educate on prevalence of asymptomatic bacteriuria in catheterized patients.</li> </ul> </li> <li>Collection <ul> <li>Advise replacing catheter prior to culture if in place &gt;7 days.</li> <li>Do not collect urine sample from urine collection bag.</li> <li>Reduce delays in transport, refrigerate if &gt;1 hour delay, use collection. device that contains a preservative (eg, boric acid).</li> </ul> </li> <li>Performance <ul> <li>Reduce colonization detection by performing reflex testing (eg, culture only if pyuria present).</li> </ul> </li> <li>Reporting <ul> <li>Include nudges advising against treatment of asymptomatic bacteriuria.</li> </ul> </li> </ul>
HO-CDI	Ordering         Limit testing of patients receiving laxatives.         Limit repeat tests within given period.         Do not test patients without symptoms of CDI.         Collection         • Reduce collections received >24 hours after initial orders.         Performance         • Do not test formed stool (Bristol stools<5, or negative stick test). <sup>50,51</sup> • Use algorithm that includes both NAAT and toxin EIA if NAAT+.         Reporting         • Include nudge that a positive NAAT test could represent colonization in the absence of clinical disease and detection of colonization is indication for treatment. Consider Infectious disease consultation if uncertain.
CLABSI	Ordering         • Avoid blood cultures in patients with low probability for bacteremia with the use of CDS and education.         • Eliminate surveillance blood cultures.         • Develop guidance to standardize indications for blood cultures.         Collection         • Optimize technique (skin prep, volume, and number of cultures).         • Avoid drawing blood cultures through central lines.         Performance         • Implement rapid diagnostics.         Reporting         • Include nudge about common commensals/likely contaminants.

Examples of Diagnostic Stawardship Strategies for NUSN Departable UA



11

# **Background:** The Power of Peer Comparison



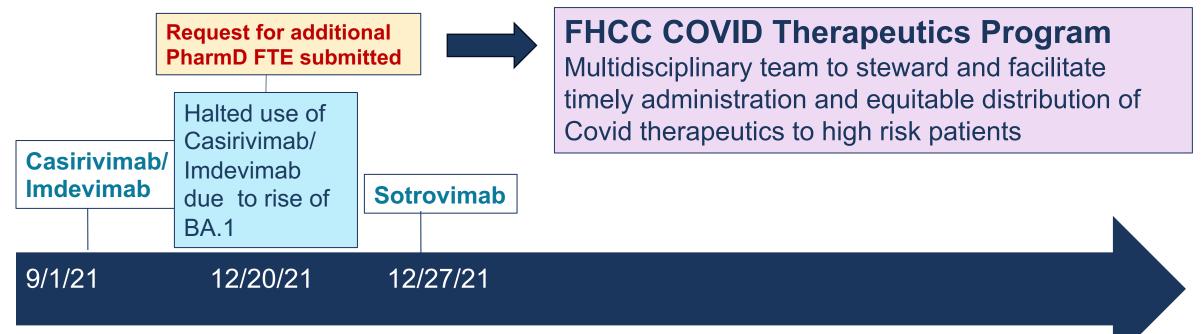
Hospital	# ID-trained pharmacists	Approximate # beds	Ratio of ID-trained pharmacist to beds		
UW/ FHCC	1	570	1:570		
Hospital A	3	725	1:242		
Hospital B	3	1134	1:378		
Hospital C	3	473	1:158		
Hospital D	5	1400	1:280		
Hospital E	4	1177	1:294		
Hospital F	3	550	1:183		
Hospital G	4	795	1:199		
Hospital H	3	894	1:298		
Average (excluding UW/ FHCC) 1:254					
PharmD ETE allocation for ASP at EHCC/IIW below other comparable institutions					

PharmD FTE allocation for ASP at FHCC/ UW below other comparable institutions

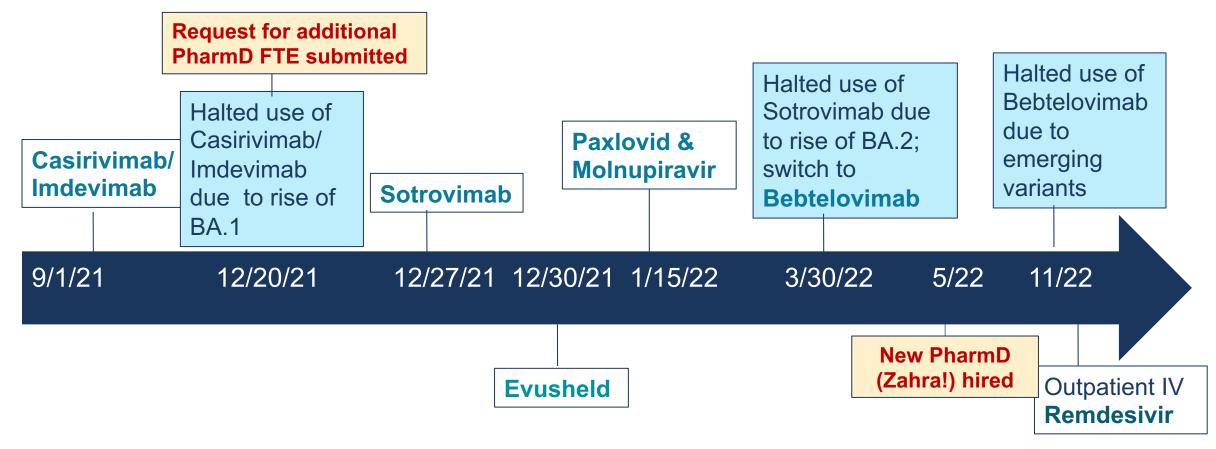
### **Situation:** Additional PharmD FTE Needed to Support COVID-19 Therapeutics Program & Outpatient ASP Growth

- Existing 0.5 FTE outpatient PharmD position insufficient to meet current demands amidst COVID-19 pandemic and other anticipated growth areas:
  - New COVID-19 therapeutics + complex logistics/ implementation
  - Planned outpatient clinic expansion
  - Outpatient ASP support beyond BMT/ CAR T to other groups including solid tumors, community site clinics
  - $\odot$  Future infectious disease threats
- <u>Recommendation</u>: Request increase of existing 0.5 FTE → 1.0 FTE outpatient ID/ ASP PharmD

# **Background:** Emphasize Urgency of Request

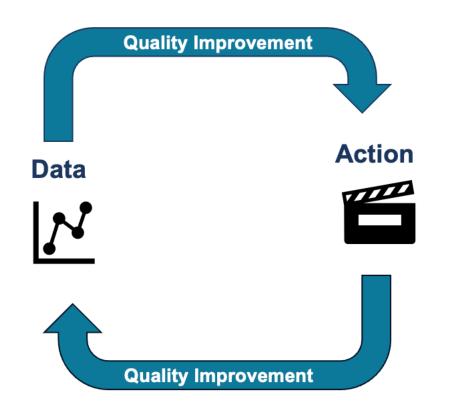


# **Background:** Emphasize Urgency of Request



Using the SBAR to Request Data Analytics Support

# **Data Analytics Essential to Drive Continuous Process Improvement**



- Data needed to identify improvement opportunities
- Timely analytics critical to QI initiatives and make progress toward target metrics and goals
- Offload PharmD and MD to enable focus on other priorities

# **<u>Situation</u>: Data Analytics Needed to Support Growth of QI Efforts and Meet Regulatory Reporting Requirements</u>**

### **Background:**





### 2023 Updated TJC Antimicrobial Stewardship Standard

- Allocates financial resources for staffing and IT
- Monitor/ report antibiotic use data to NHSN AUR module
- **Evaluates adherence** to evidence-based guidelines
- Collects, analyzes, reports data to hospital leadership and prescribers
- Takes action on improvement opportunities identified

# **Background:** Showcase Your Value While Highlighting Needs

**Problem:** Delayed management of positive outpatient blood culture results

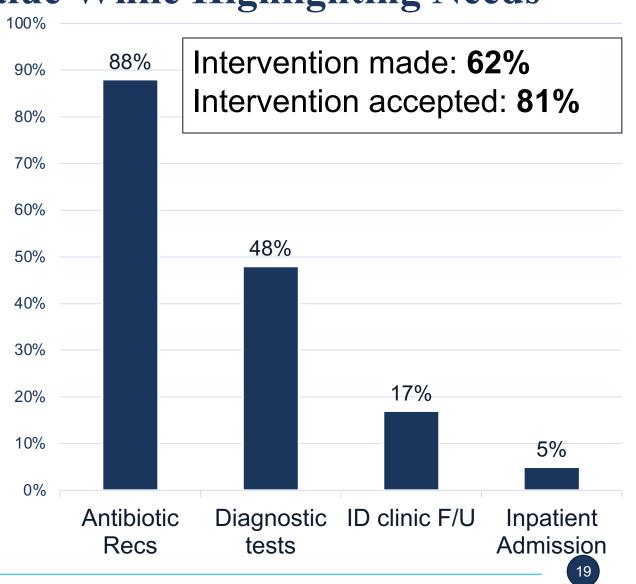
**<u>Goal</u>**: Ensure timely and optimal antimicrobial management of positive outpatient blood culture results

#### Intervention:

- Reviewed positive outpt blood cx and provide recs to primary team
- *Manual data* collection for 6 mths (N=68 cases)

#### Outcomes:

 Of abx recs, 67% involved antibiotic initiation or changes, 19% stopped abx



# **Assessment:** Analysis of Considerations and Risks/ Benefits

- Describe risks without additional data analytics resources:
  - Manual data review time-consuming, undermining existing and new improvement efforts
  - $\circ$  Failure to identify safety events
  - Inability to meet regulatory reporting requirements
- Consider "packaging" your proposal: Joint request by IP/ ASP for data analytics and biostatistician to support quality and process improvement activities

# **Summary**

- Carefully consider your resource needs and be specific with your request
- Demonstrate alignment with institutional priorities and quality goals
- Showcase your value while highlighting potential risks without additional resources (e.g. patient safety/ quality, regulatory, reputation)

# Thank you!

catherine.liu@fredhutch.org

**Fred Hutchinson Cancer Center**