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- The Joint Commission highlighted handshake stewardship (HS) as a leading practice in antimicrobial stewardship (AMS)¹; however, intervention and outcomes data in adult populations are lacking.
- Additionally, limited human resources remain a barrier to widespread implementation of HS services.
- In February 2022, our antimicrobial stewardship program (ASP) expanded to include a HS service supporting adult internal medicine patients managed by hospitalist staff at an academic medical center.
- Here, we aim to describe the interventions made to support and improve care in this population.

Methods

Study Design

LOYOLA

MEDICINE

870

This was a single-center, retrospective quality improvement initiative at a 547-bed academic center

Setting and Intervention

- All prescribed antimicrobials were prospectively reviewed Monday-Friday by the ID pharmacist and recommendations to improve quality, safety, and transitions of care were discussed in-person during daily rounds with hospitalists.
- Interventions were documented daily and data generated between 2/1/22 and 7/30/22 were reviewed to categorize the impact of the expanded service.

References

- 1. Baker DW, Hyun D, Neuhauser MM, Bhatt J, Srinivasan A. Leading Practices in Antimicrobial Stewardship: Conference Summary. Jt Comm J Qual Patient Saf. 2019 Jul;45(7):517-523.
- 2. Rech MA, Gurnani PK, Peppard WJ, et al. Pharmacist Avoidance or Reductions in Medical Costs in Critically III Adults: PHARM-CRIT Study. Crit Care Explor 2021;3:e0594

Table 1. Broad Spectrum Antibiotic Days of Therapy Avoided

Antibi

Day Avoid

The Importance of a Strong Handshake: Expanding Antimicrobial Stewardship to Engage Frontline Providers in Adult Medicine

Loyola University Medical Center, Maywood IL

Results

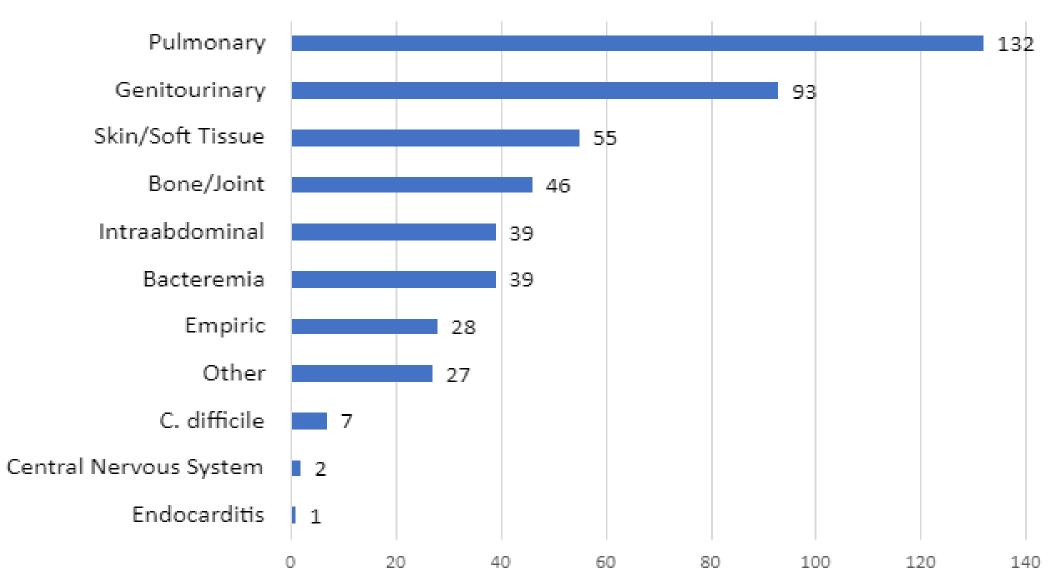
• A total of 469 interventions were made for 162 unique patients over a 5-month period.

• We observed 385 accepted interventions (90.2%) during the intervention period.

On average, the HS pharmacist reviewed 24 charts per day and spent 67 minutes in chart review, 14 minutes in rounds, and 21 minutes in other direct communication with providers per day.

Since implementation, the HS service has contributed to an estimated cost savings of \$81,510 for our hospital

Figure 1. Intervention by Indication (N=469)



otic	Cefepime	Piperacillin- tazobactam	Meropenem	Ceftriaxone	Vancomycin
/s ded	107	106	6	99	103

Table 2. Intervention by Type (N=469)

Intervention Type	N (%)	Cost Savings Estimate ²				
Labs or diagnostics recommended	49 (15.5)	\$18,627.84				
Discontinuation	62 (13.0)	\$5,047.94				
Intravenous to oral switch	56 (11.9)	\$3,130.84				
Dose recommendation	50 (10.7)	\$8,239.00				
Provider education	44 (9.4)	\$4,868.60				
Duration of therapy	40 (8.5)	\$1,026.11				
recommendation						
De-escalation	30 (9.5)	\$1,866.96				
Antibiotics re-ordered	28 (6.0)	\$2,995.44				
Antibiotic streamlining	20 (4.3)	\$12,050.40				
ID consult recommended	12 (2.6)	\$7,230.24				
Initiation of antibiotics	12 (2.6)	\$7,230.24				
Dose Adjustment	12 (2.6)	\$1,977.36				
Escalation	4 (0.9)	\$2,410.08				
Allergy assessment and narrowing	3 (0.6)	\$1,140.48				
Antibiotic Avoidance	3 (0.6)	\$1,807.56				
Bug-Drug mismatch	2 (0.4)	\$1,205.04				
Adverse drug reaction prevention	1 (0.2)	\$380.16				
Counseling	1 (0.2)	\$110.65				
Dose (Renal Replacement Therapy)	1 (0.2)	\$164.78				
Total	469 (100)	\$81,509.72				
Conclusions						

- Implementation of HS in two adult internal medicine teams was associated with many interventions with high acceptance by hospitalist staff

Disclosures: None

Poster #: 969



Conclusions

- Interventions led to tangible reductions in
- broad spectrum antibiotic days of therapy and cost.

