Feasibility and Impact of a Pharmacist-Driven Home Hospital Antimicrobial Stewardship **Program Pilot within a Large Community Health System**

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BACKGROUND

Allina Health 🐝

NORTHWESTERN

ABBOTT

HOSPITAL

- Antibiotic prescribing in transitions of care is a recognized source of antibiotic misuse that is not yet widely addressed by many stewardship programs
- The Allina Health's Home Hospital (HH) program allows outpatient providers access to institutional antimicrobial prescribing resources and shared electronic medical record (EMR) system
- This unique setting allows antibiotic stewardship pharmacists (ASP) to monitor adherence to guidelines, patient adverse effects, and serve as a resource for questions or communication with the infectious diseases team

Objective: Evaluate the impact and feasibility of a novel prospective audit and feedback pilot on antimicrobial therapy within the HH care setting

METHODS

- Retrospective chart review pre-implementation (1/3/21-3/31/21) and post-implementation (1/3/21-3/31/21)
- **Primary outcome:** Mean antibiotic days of therapy/1000 patient days (DOT)
- Secondary outcomes:
 - Broad-spectrum antibiotic usage
 - Percentage of inappropriate antibiotic indication, dosing, duration
 - Compliance with OPAT monitoring
 - Treatment failure
 - Antibiotic-associated adverse effects
 - Cost of antibiotic therapy

Inclusion(s)

• Patients >18 years of age enrolled in Allina Health HH program and receiving antibiotics (oral or intravenous) prescribed at discharge or initiated during HH admission

Exclusion(s)

- Patients on long-term prophylactic, suppressive, or anti-mycobacterial antimicrobials
- Patients only on antifungals, topical and/or ophthalmic antimicrobial products

- postsurgical prophylaxis following arthroplasty procedures
- antibiotic coverage (14/19, 74%)
- with very positive verbal feedback about the program



CONCLUSION

for additional antimicrobial stewardship involvement in the Hospital-at-Home setting



• This novel pharmacist-driven antimicrobial stewardship review pilot was welcomed by HH providers. Findings of the pilot suggest more opportunities

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