

Antibiotic Stewardship Tracking & Reporting an Example

Lyngblomsten Care Center
St. Paul, MN



Learning Objectives

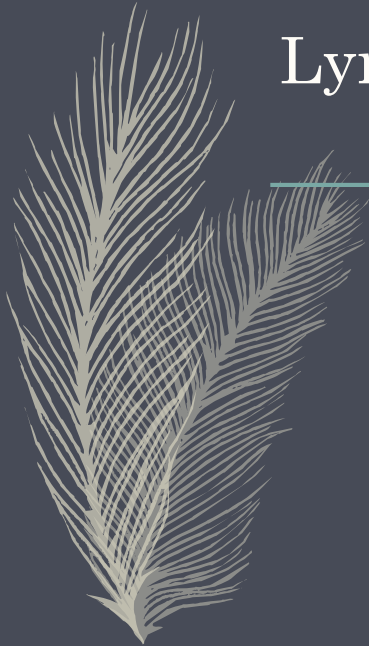
- Understand process measures to track antibiotic prescriptions
- Be able to recognize methods to track the amount of antibiotic use in your facility
- Understand outcome measures related to antibiotic use
- Define ways to report antibiotic use data

About Us

Lyngblomsten is a Christian nonprofit organization serving older adults and their families through healthcare, housing, and community-based services. Partnered in ministry with more than two dozen Christian congregations across the Twin Cities of Minneapolis and Saint Paul in Minnesota, a continuum of care meets the needs of adults as they travel the later years of their life's journey. Our services nurture the whole person—body, mind, and spirit.



Lyngblomsten Campus



- Lyngblomsten campus is located in St. Paul Minnesota, nestled between the Minnesota State Fair Grounds and Como Park
- Lyngblomsten Care Center is a 225 bed skilled nursing facility, with 30 short term rehab beds



Background

- 2015: first introduced to ASP
 - CDC Core Elements for Nursing Homes
- 2016: more talk about ASP
- November 2016
 - New rules of participation released by federal government (CMS)
- November 28, 2017
 - LTCF must establish an ASP that includes protocols and a system to monitor antibiotic use



Development of Program

- Educate self on ASP
 - Collaboration
 - Networking
- Form ASP committee
 - Medical Director
 - Infection Preventionist
 - DON
 - Consultant Pharmacist
 - Quality Nurse



Development of Program

- Develop protocols
 - Asymptomatic bacteriuria
 - *Collection of specimens*
 - *Ordering specimens*
 - C. Diff
 - Loeb's Criteria
 - Assessment
- Educate staff, providers and resident/families



Tracking Antibiotic Use

- No tracking tools or specific reports for antibiotic stewardship in EHR
- Developed a UDA in our EHR
 - 'Suspected Infection' assessment
 - Based on Loeb's Criteria
 - Generates an SBAR note



Tracking Antibiotic Use

- Generate report of antibiotic orders from EHR
 - 1-2x/week
 - Review completion of UDA
 - Review charting
 - Review lab results, cultures and sensitivities



Tracking

- Morning Meeting with IDT (M-F)
 - Discuss antibiotic orders/suspected infections
 - Antibiotic Time Outs
- Other reports used for tracking
 - Pharmacy
 - Lab
- Generate Monthly Report
 - Determine antibiotic appropriateness



Other Tracking

- Urine analysis orders
- Signs/symptom documentation
- Criteria met for treatment
- NHSN C. Diff Initiative
- Resident Centered Medication Safety Project
- Quality Improvement Project



Other Tracking

- Antibiotic Stewardship Collaborative
- LeadingAge Minnesota
- University of North Carolina
- Submit Quarterly data



Reporting

- At least quarterly at QAPI meetings
- Antibiotic appropriateness
- Antibiotic use in relation to UTIs



Reporting

- Future plans/protocols
- Provide feedback to providers on prescribing practices
- Initiate prescribing guidelines
 - *Duration*
 - *Narrow vs Broad spectrum use*
- Complete Tele-ID Program with IDSA

Antibiotic Stewardship Collaborative

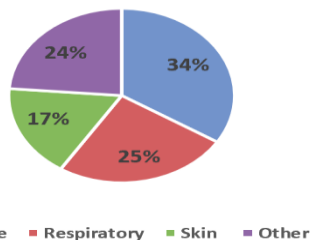


- Started June 2017
- Submitted previous months data
- 29 Facilities in Minnesota
- Submit data quarterly
- Receive quarterly reports
- Comparison to other facilities
- Own facility antibiotic use

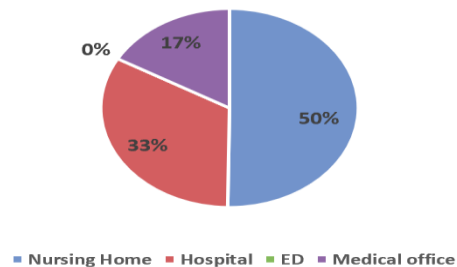
What is tracked?

Rates per 1,000 resident days							
	All ABXs	Urine	Respiratory	Skin	Other	Hospital	Readmit
January - March	5.19	1.86	1.52	0.86	0.95	1.43	1.24
April - June	5.24	1.68	1.09	0.94	1.53	1.88	1.38
July-September	No Data	No Data	No Data	No Data	No Data	No Data	No Data
October - December	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Overall (Year 2018)	5.21	1.77	1.31	0.90	1.24	1.65	1.31

Percentage of Antibiotic Prescriptions (2018)

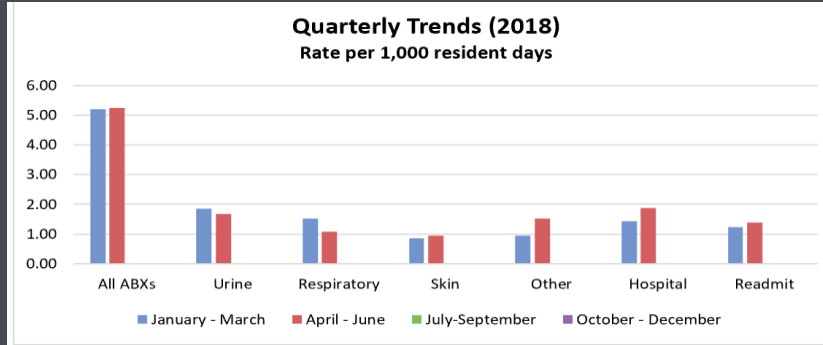


Location of Prescription (2018)



Data from Antibiotic Stewardship in Nursing Home Collaborative

What is tracked?



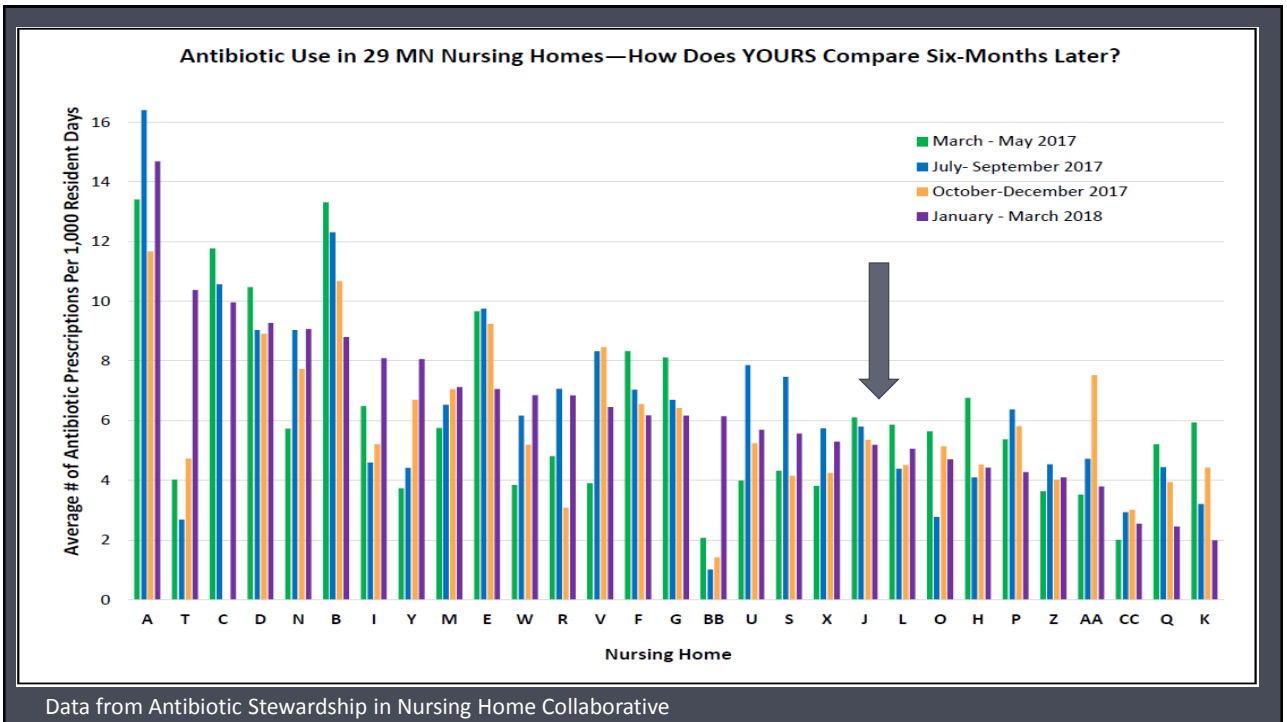
	All ABXs	Urine	Respiratory	Skin
Jan-Mar	No Data	No Data	No Data	No Data
Apr-Jun	7	6	7	8
Jul-Sept	No Data	No Data	No Data	No Data
Oct-Dec	No Data	No Data	No Data	No Data
Overall	No Data	No Data	No Data	No Data

Data from Antibiotic Stewardship in Nursing Home Collaborative

How are we doing?

Nursing Home Letter (Ranked by Updated Rate)	# Antibiotic Prescriptions per 1,000 Person-Days (Any diagnosis)				% change (March-May 2017 vs Jan-March 2018)
	March-May 2017	July-Sept 2017	Oct-Dec 2017	Jan-March 2018	
J	6.11	5.80	5.36	5.19	↓15.06%

Data from Antibiotic Stewardship in Nursing Home Collaborative



Closing remarks

- Use resources available
- Collaborate with other entities
- Participate when offered
 - Pilot programs
 - Initiatives
 - Get involved