UCSF Medical Center

UCSF Adult Antimicrobial Stewardship Annual Overview and Utilization Report, FY18 Summary

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- Why?
- Adult ASP Metrics FY18
 - Process measures
 - Outcome measures
 - Antibiotic use
 - Internal trends: APEX data
 - Benchmarking: Vizient data
 - Preliminary analysis of FY18 initiatives

Why stewardship?



23,000 annual AMR deaths



> 2 million AMR illnesses



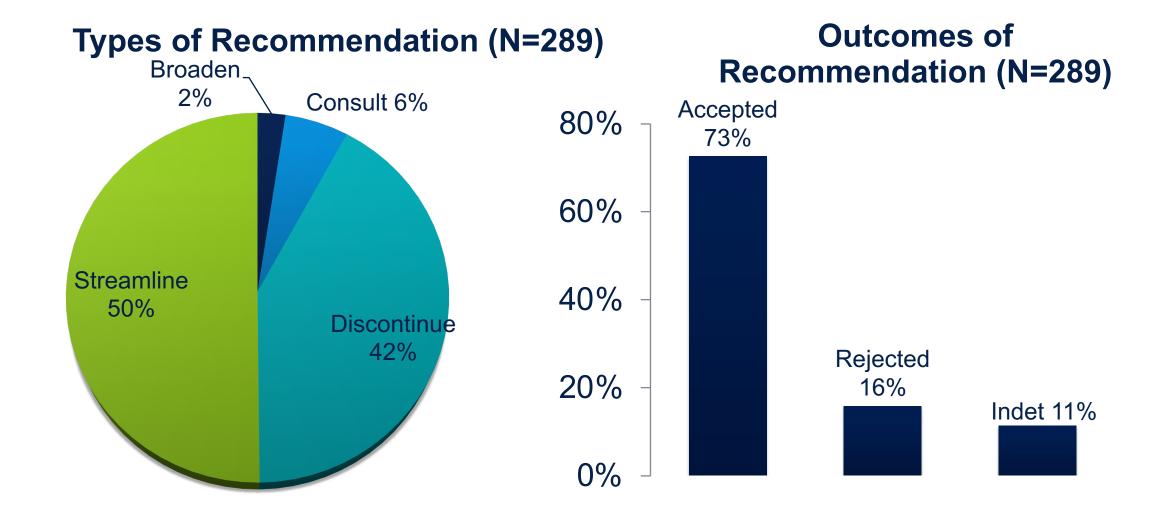
MDRO incidence rate w/ ASP: 0.49 (0.35-0.68)



CDI incidence rate w/ ASP: 0.68 (0.53-0.88)

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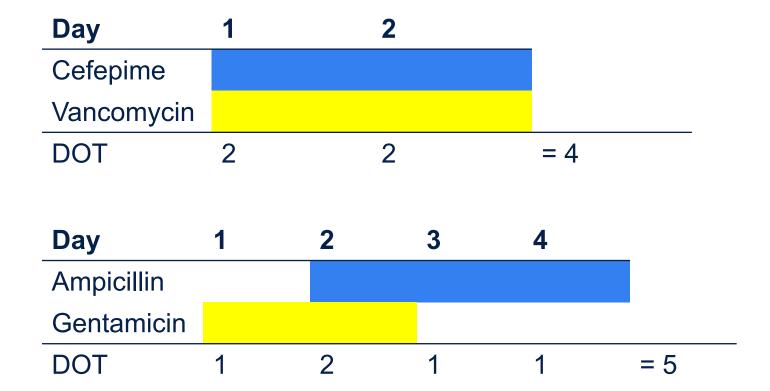
722 interventions made in FY18



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Days & length of therapy (DOT and LOT)

■ Total number of days a patient receives any antibiotics



Data sources

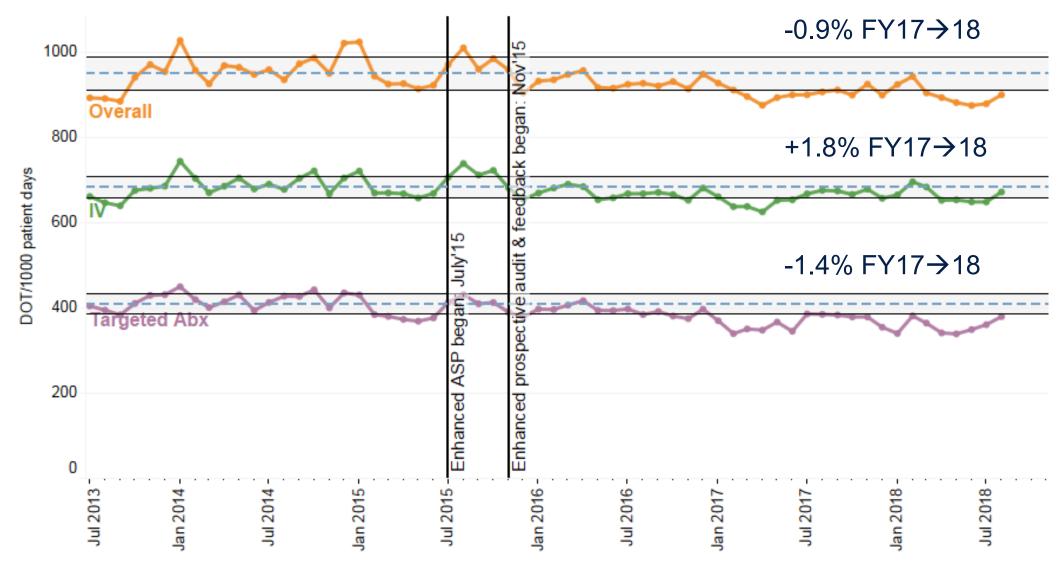
- APEX
 - UCSF EMR
 - Data is based on medication administration
 - Useful for granular look at trends within our hospital
- UHC/Vizient
 - Consortium of hospitals
 - Data is based on administrative claims
 - Comparators chosen based on: perform BMT, kidney, liver, lung, AND heart transplants
 - Most useful for benchmarking

Targeted antibiotics

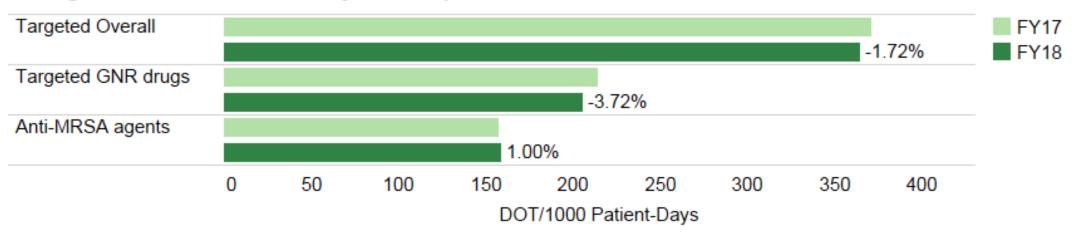
- Aztreonam
- Cefepime
- Ceftaroline
- Ceftazidime
- Ceftazidime-avibactam
- Ceftolozane-tazobactam
- Daptomycin
- Doripenem

- Ertapenem
- Imipenem
- Linezolid
- Meropenem
- Piperacillin/tazobactam
- Tigecycline
- Vancomycin

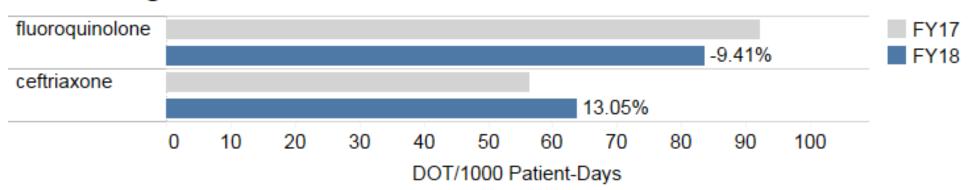
UCSF Adult Antibiotic Utilization FY14-FY19 MTD



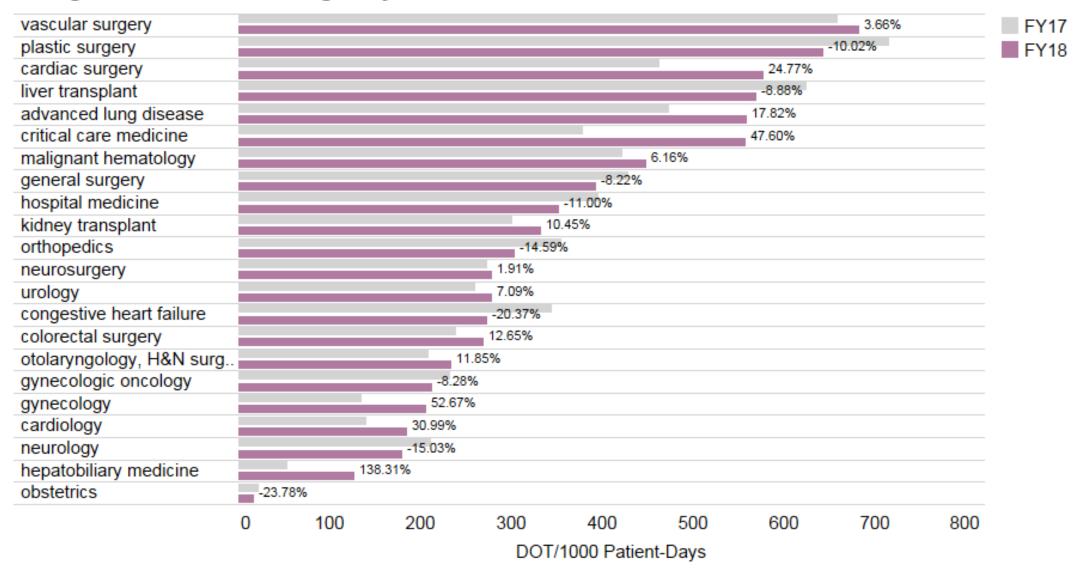
Targeted Antibiotics by Groups FY17 vs. FY18

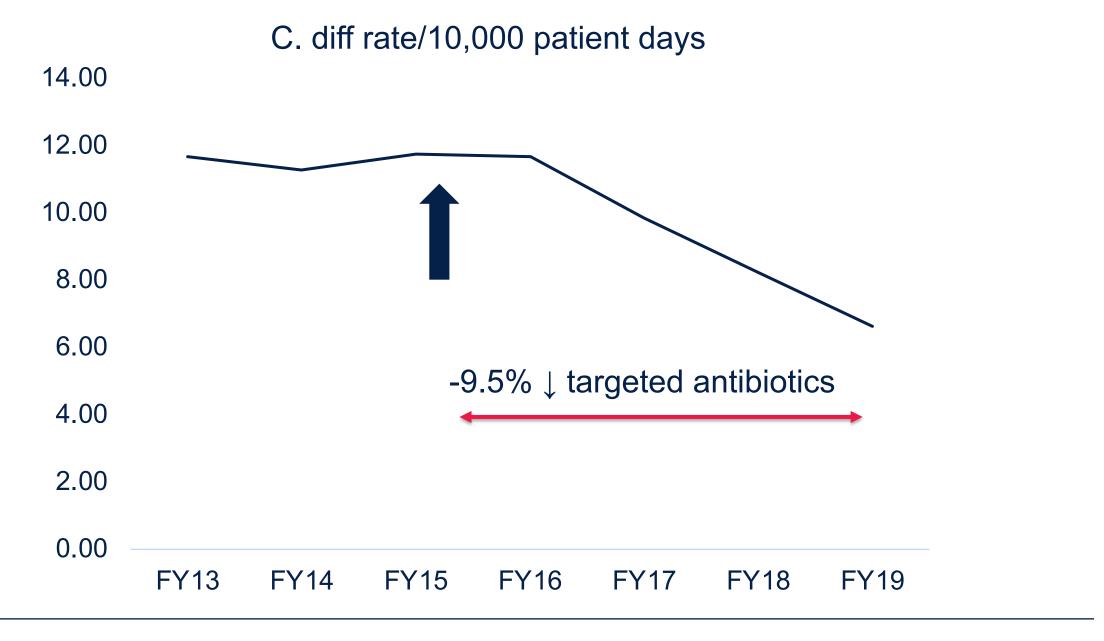


Non-Targeted Antibiotics of Interest FY17 vs. FY18



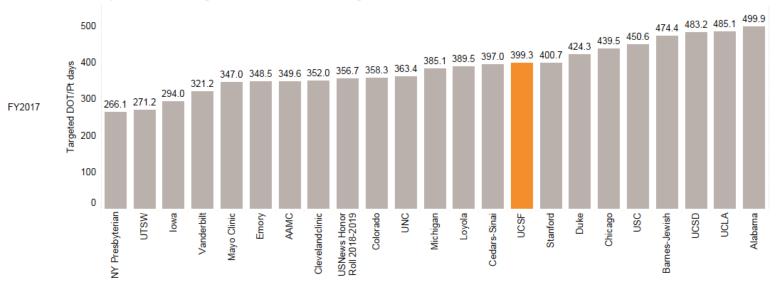
Target Antibiotic Usage by Service FY17 vs. FY18



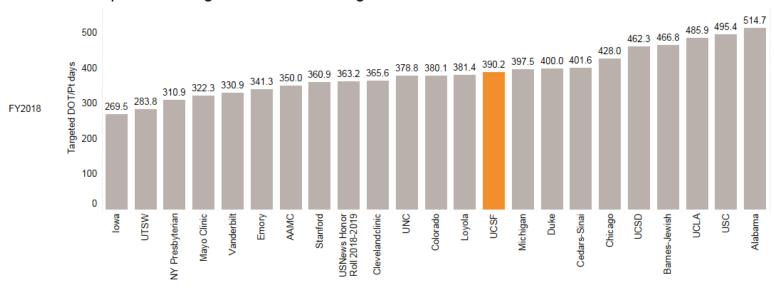


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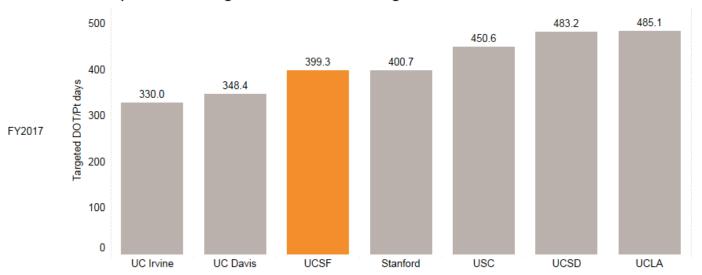
UCSF & Comparators Targeted Antibiotic Usage



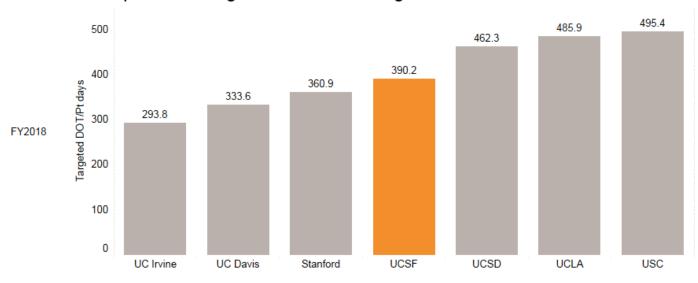
UCSF & Comparators Targeted Antibiotic Usage



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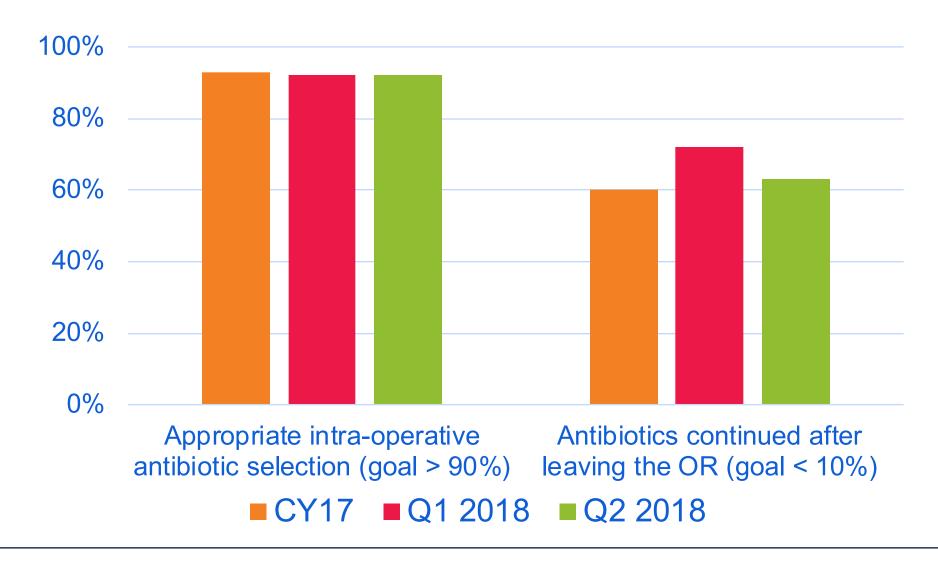


UCSF & Comparators Targeted Antibiotic Usage

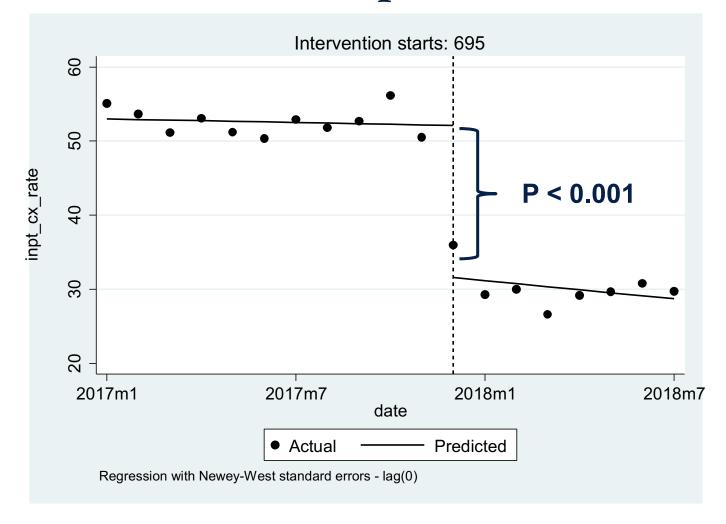


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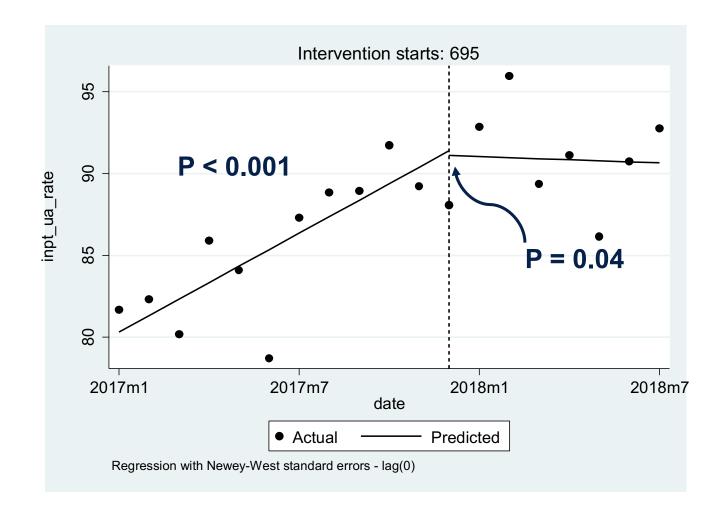
Surgical prophylaxis compliance: Go-live 4/24/18



UA with reflex to UCx: Inpt Ucx rate



UA with reflex to UCx: Inpt UA rate



Summary

- We have sustained decreases seen in FY16 and 17 but progress has stalled
- Nice decrease in GNR agents
- Impact on CDI rates
- Will need to strategize to continue optimizing use
- Focus on high-utilizing services for next year
- Long-range: will need to incorporate outpatient, ED, and transitions of care

Thank you!

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