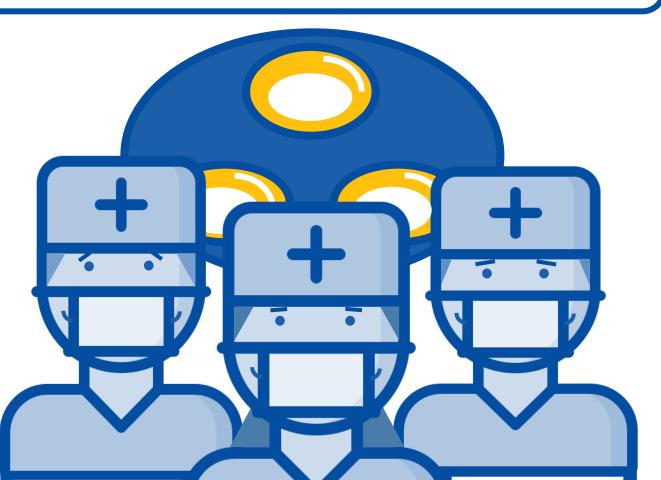
Surgical Antimicrobial Prophylaxis

Key findings from Ierano et. al., JAMA, 2019



Most common reasons for inappropriateness were related to timing and duration

Procedural Incorrect timing 45%*

Post-procedural
Duration ≥ 24 hours
54%*

*of total reasons for inappropriateness

Surgical Prophylaxis has low rates of appropriateness

Prescription appropriateness

49%

(Total of 15,395 prescriptions)

Appropriateness† was low across all surgical craft groups

Procedural
Range 34% to 69%

Post-procedural
Range 22% to 59%

†adjusted appropriateness accounted for a range of patient, hospital and surgical variables

Why is timing important?

Correct timing ensures enough of the drug reaches the site of incision during surgery

Why are longer durations harmful?

Longer durations can increase the risk of side effects and bacterial resistance

Ierano, C., Thursky, K., Marshall, C., Koning, S., James, R., Johnson, S., Imam, N., Worth, L. and Peel, T. (2019). Appropriateness of Surgical Antimicrobial Prophylaxis Practices in Australia. *JAMA Network Open*, 2(11):e1915003.





