

# Adequacy of surgical antimicrobial prophylaxis (SAP) in pediatric surgery: audit in a tertiary free standing children hospital **Summary statement:**





## Lessons Learned

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The use of a dedicated SAP order set by surgeons was low. Digital operative request with a mandatory SAP section should be considered.

Fig. 2: Compliance for each criteria evaluated

• Highlighting the need for an administrative intervention in order to increase the completion of the perioperative document and the use of the antimicrobial prophylaxis order set Several important areas of improvement were identified to minimize variability of care: timing of antimicrobial prophylaxis administration, documentation of the process and use of dedicated order set. • Planned strategies to address these include use of a digital operative request with mandatory fields regarding antimicrobial prophylaxis and creation of a taskforce with members of the surgical and anesthesia services to establish a standard operative procedure for the administration of antimicrobial prophylaxis.

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## Significance statement:

- Established guidelines govern the use of SAP
- Local practices should be periodically audited to ensure compliance with established guidelines
- Can SAP-dedicated order set improve compliance and minimize variability of care ?

**Data Source/Population and Results:** Population

- We analyzed the chart of 123 randomly selected patients having undergone surgery • 6 pediatric specialties: ENT, general, cardiac, neuro, orthopedic or plastic
- 3 months period: from September 1st to November 30th, 2020

## Results

- Wounds classification shown in Fig. 1
- Compliance to selected criteria shown in Fig. 2
- Post operative infection rate: 4% (5 cases)





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### Fig. 1: Wounds classification