4CPS-011 ANTIMICROBIAL STEWARDSHIP RECOMMENDATIONS IN PATIENTS WITH RESPIRATORY TRACT INFECTIONS IN AN INTERMEDIATE CARE HOSPITAL

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Backgroun and importance

Antimicrobial Stewardship Programs (ASPs) aim to optimize antimicrobial use to minimize unnecessary exposure and adverse outcomes.

Respiratory tract infections are highly prevalent and are associated with high morbidity and mortality rates.

Aim and objectives

- Characterize patients with respiratory tract infections (RTIs) admitted to an Intermediate Care Hospital (ICH).
- Examine common etiological agents and prescribed antimicrobial treatments.
- Assess the ASP recommendations and their acceptance by prescribers.

Material and Methods

Study design and period: observational, retrospective study between september 2022 and february 2024.

Patients: Patients admitted to a 116-bed ICH with antibiotic treatment for a RTI reviwed by AS team

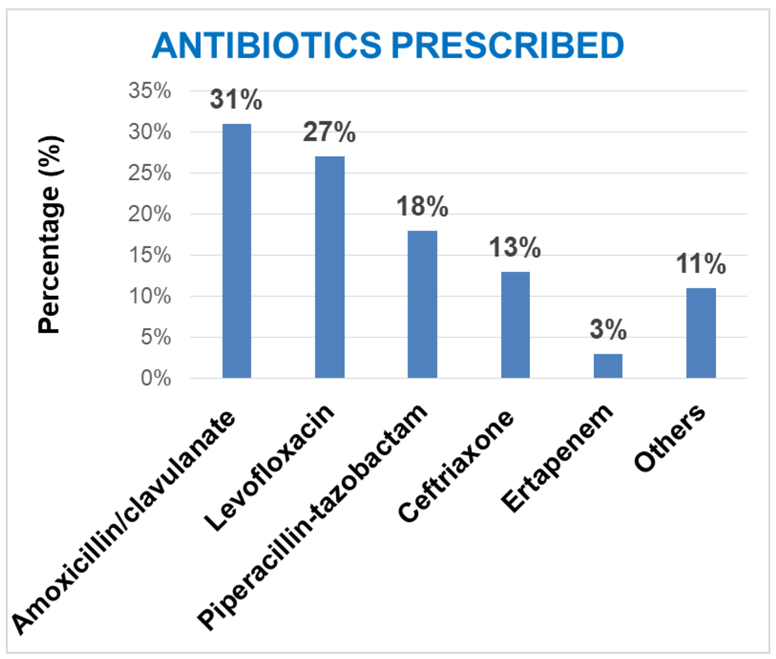
Variables: age, gender, infection type (pneumonia (P) or lower respiratory tract infection (LRTI)), microbiological tests performed, prescribed antibiotics, empirical or targeted treatment, adherence to clinical guidelines, ASP recommendation and acceptance.

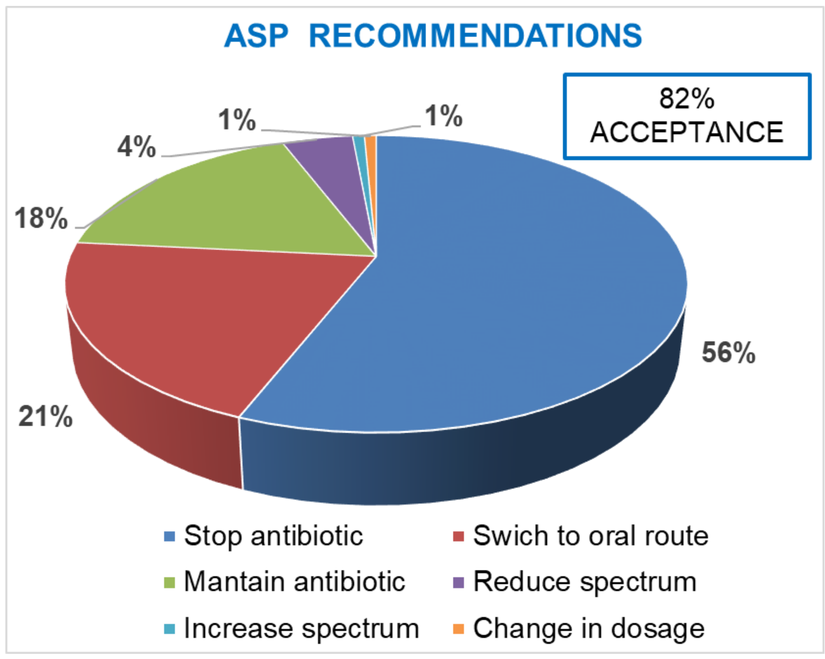
Results

273 treatments were reviewed. 74% were LRTI and 26% were P. The median age was 87 years [80-90], with 52% females. 89% of treatments were empirical, 81% following guidelines. Microbiological tests were performed in 48%of patients: antigenuria (n=80), sputum (n=52), blood culture (n=43).

	Positivity, n (%)	Result (n)
Antigenuria	11 (14%)	*S.pneumoniae* (11)
Sputum culture	35 (67%)	*P.aeruginosa* (14) *S.aureus* (6)* *E. coli* (4)**
Blood culture	1 (2%)	*K.pneumoniae*(1)***

* 3 of them, MRSA. ** 2 of them, ESBL.***ESBL





Conclusions

Patients with RTIs were predominantly elderly with LRTIs. Sputum cultures were the most informative, with *Pseudomonas aeruginosa* being the most common isolate. Most treatments were empirical, with high adherence to guidelines. The ASP effectively optimized treatment duration, with high acceptance of its recommendations.