IMPACT OF ORAL SEQUENTIAL THERAPY ON ANTIMICROBIAL PRESCRIBING AT A TERTIARY CARE HOSPITAL

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Background and importance

Oral sequential therapy (OST) → switching parenteral antimicrobial treatment
(AT) to oral therapy (OT) → tomplications associated with parenteral administration
(CAPA), hospital stay times (HST), treatment duration (TD) and costs.

Aim and objectives

- To describe OST recommendations and its acceptance degree by prescribers.
- To analyse impact on inpatient antimicrobial consumption following OST implementation.

Materials and methods

- Descriptive, observational, cross-sectional and prospective study of inpatient OST interventions (11/2023-01/2024).
- 2 periods of hospital antimicrobial consumption:
 - pre-OST = 11/2022-01/2023
 - post-OST = 11/2023-01/2024

Inclusion criteria Exclusion criteria PT: parenteral therapy oral intolerance (OI) -27 sepsis/complicated -24 infections Antimicrobials with oral bioavailability≥60% rising acute phase -16 reactants (APR) altered consciousness TD≥3 days fever or haemodynamic instability 41 inpatients 110 patients

Results

• Acceptance rate = 85.4% (35/41)

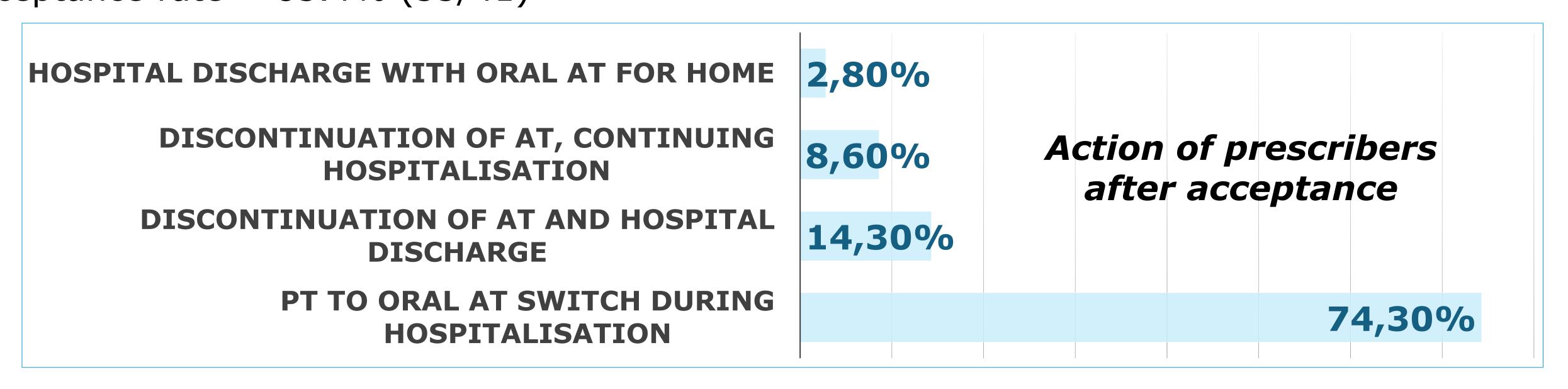


Table 1. Hospital consumption of most recorded antimicrobials

The most recorded antimicrobial was levofloxacin (29/41:70.7%), followed by isavuconazole and amoxicillin/clav (4/41:9.8% both)

Antimicrobial	DDD/100	DDD/100 stays	Differences post-
	stays pre-OST	post-OST	OST vs pre-OST
Levofloxacin 500mg Parenteral(P)	12.47	11.6	- 6.97%
Levofloxacin 500mg Oral(O)	2.54	3.71	+ 46.06%
Isavuconazole 200mg(P)	1.57	0.94	- 40.13%
Isavuconazole 100mg(O)	2.21	2.54	+ 14.93%
Amoxicilin/clavulanate 1/0.2g(P)	3.51	4.61	+ 31.33%
Amoxicilin/clavulanate 875/125mg(O)	0.75	1.00	+ 33.33%

DDD: Defined Daily Dose

Conclusion and relevance

- High acceptance degree: >85%
- PT reduction and OT increase -> levofloxacin and isavuconazole.
- Some acceptances resulted in AT discontinuation and/or hospital discharge.
- Further studies would demonstrate more OST advantages (LCAPA, HST and costs).

