





SELECTIVE DIGESTIVE DECONTAMINATION IN CRITICALLY ILL PATIENTS

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Background and Importance

Pharmacy-Department



Selective digestive decontamination (SDD) aims to reduce hospital acquired infections in critically ill patients (CIP)

- Topical administration of non absorbable antimicrobials in oropharynx and stomach
- 4 days course of intravenous antibiotic



A multidisciplinary meeting is conducted weekly to decide the appropriate SDD for each CIP

Aim and Objectives

To analyze the frequency of multidrug resistant bacteria (MDRB) colonization/infection in CIP with SDD and the **SDD effectiveness of MDRB decolonization**

Materials and Methods

- Prospective, observational and descriptive study
- All adult patients admitted to ICU who received SDD were included
- December-23 to July-24
- MDRB studied:
- Methicillin-resistant Staphylococcus aureus (MRSA)
- Vancomycin-resistant Enterococci (VRE)
- Extended-spectrum beta-lactamases Enterobacteriaceae (ESBLE)

Risk factors of colonization (RFC):



- Carbapenemase-producing Enterobacteriaceae (CPE) ullet
- Multidrug-resistant Pseudomonas aeruginosa (MDRPA) (resistant \geq three antibiotic families)

- RISK
- Previous MDRB colonization/infection
- Transfer from social-health center
- Previous hospital admission in last year
- \geq 48hours in hospital ward prior to ICU admission
- Beta-lactams and/or quinolones in last 90 days
- Chronic dialysis
- Chronic skin ulcers
- Permanent vesical catheterization





219 CIP. Median age was 71[IQR:59-78] years RFC: 47.95%. Median ICU-days was 9[IQR:4-21]

MDRB:13.70% patients







Presence of RFC:

- Any RFC increased colonization risk by 3.57 times RR 3.57 (95%CI 1.63-7.8) p=0.001
- Previous MDRB: RR 6.79 (95%CI 3.47-13.29) p<0.001



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