

This qualitative research suggests that *longer duration of low-dose steroid use in the early stages* of acute respiratory distress syndrome is comparatively safer

Muhammed Rashid would like to thank **ISPOR**, for providing the ISPOR Travel Grant Award to attend ISPOR Annual Meet 2024 Muhammed Rashid would like to thank Department of Science & Technology (DST), Government of India, for awarding the travel grant and other support Authors would like to acknowledge MCOPS, KMC and Manipal Academy of Higher Education, Manipal for providing the infrastructure to conduct the study

Development of an Optimal Corticosteroid Dosage Regimen for the Management of Acute Respiratory Distress Syndrome: A Sequential Explanatory Mixed Method Approach

	Results
Study Phase	Major F
nase I	 Better recovery (p=0.002) , More Hospitalization low-dose for longer duration strategy Better recovery at early administration (betweer)
nase II	 Effective in reducing mortality, Improving ventila Low dose steroid (1 to 2 mg/kg) for prolonged early phase (24-72 hours) is better
nase III	 Mixed opinion on use of steroid based on the cli Low dose (1-2 mg/kg) for longer duration (>7 data days) is comparatively better Corticosteroid is cost effective and cheaper, Safe Lack of good quality comparative RCTs

Patients can be considered: ARDS from atypical or organizing pneumonia; ARDS from viral diseases; Pneumonia with moderate to severe ARDS; Acute febrile illness-ARDS; Patients who are not responding to any other therapy, but steroid; Culture negative bacterial pneumonia with ARDS

Patients can not be considered: Secondary ARDS due to non-pulmonary pathology; Mild ARDS; Late onset ARDS (after 14 days of onset of symptoms); Burns with ARDS; Post surgical/operated patients; Immunocompromised/HIV infection; Fungal infections; Disseminated TB; Risk of GI bleeding; Other contraindications

Phase IV: Proposed Corticosteroid Strategy

Low dose (1-2 mg/kg of methyl prednisolone or equivalent dose) for 3-5 days, tapering 50% of dose over 10 days administered within 24-72 hours of hospital admission or ARDS diagnosis (Ex: 80mg Methyl prednisolone as 40mg BD for 3-5 days, followed by 40 mg OD for 5 days, then gradual tapering) for a total duration of >10 days among moderate to severe ARDS patients

Ramakrishnan M et al., Clin Epidemiol Glob Health , 2023, 101243. ■ Rietmeijer CBT et al. Teach Learn Med, 2022, 34(1), 113-121.

→ Rashid M et al., Int J Clin Pract, 2021, 75(11):e14645.



Findings

n, ICU, Ventilatory and oxygenation free days with

en 24-48 hours & 48-72 hours) atory, ICU and physiological outcomes administration (minimum of 7 days to 28 days) a

linical experience ays) High dose (>2 mg/kg) for shorter duration (<5

fe and no harm even in special population