

DMC Antibiotic Recommendations for Ventilator Associated Pneumonia Prophylaxis in Adults with Acute Brain Injury

Patient Population	
<p>Inclusion:</p> <ul style="list-style-type: none"> Traumatic brain injury, stroke, or subarachnoid hemorrhage Glasgow Coma Scale (GCS) ≤ 12 Within 48 hours of hospital admission ≥ 18 years of age Mechanical ventilation (predicted to require >48 hours) 	<p>Exclusion:</p> <ul style="list-style-type: none"> Previous hospitalization within the past month Previous respiratory colonization with ceftriaxone resistant bacteria within 1 year Ongoing antibiotic treatment Antibiotic prophylaxis expected within the first 24h Tracheal intubation by nasal route Mechanical ventilation on tracheostomy Coma due to tumor, infectious disease, or cardiac arrest Contraindication or allergy to β-lactam agents Subglottic secretion drainage Pregnancy
Prophylaxis Regimen	
<p>Ceftriaxone 2 gm IV x One Time Only</p> <ul style="list-style-type: none"> Dose should be given within 12 hours after intubation 	

References:

1. Dahyot-Fizelier C, Lasocki S, Kerforne T, et al. Ceftriaxone to prevent early ventilator-associated pneumonia in patients with acute brain injury: a multicenter, randomized, double-blind, placebo-controlled, assessor-masked superiority trial. *Lancet Respir Med.* 2024 May;12(5):375-385.