

MDRO Risk Factors based on indication

Community Acquired	Bronchiectasis Structural lung disease (chronic bro	nchitis	CODD amendays amend interestical
Duaumania, Daardamanaa wi-l-	□Bronchiectasis Structural lung disease (chronic bronchitis, COPD, emphysema, interstitial		
Pneumonia: Pseudomonas risk	lung disease, pulmonary fibrosis) AND taking chronic steroids/ history of repeated		
factors	antimicrobial use □Chronic systemic steroids		
	□Repeated antimicrobial use		
HAP/VAP: MDRO risk factors	□Late onset—occurs after ≥5 days of hospitalization		
	□Antimicrobial therapy within the last 90 days (consider broad spectrum, multiple courses,		
	etc.)		
	□Immunosuppressive disease and/or therapy		
	☐ History of infection or colonization with a multidrug resistant organism		
	□ Chronic dialysis within 30 days		
VAP: MDRO risk factors	Antimicrobial therapy within the last 90 days (consider broad spectrum, multiple courses,		
	etc.)		
	Septic shock at the time of VAP		
	□ ARDS preceding VAP		
	☐ 5 or more days prior to the occurrence of hospitalization ☐ Acute renal replacement therapy before VAP		
	□ Acute renai replacement therapy before VAP □Neutropenic		
Catheter related blood-	<u> </u>		
streaminfection:Pseudomonas Risk factors:	□ septic patients □ Previously colonized with Pseudomonas Agraguinosa		
	Previously colonized with Pseudomonas Aeroguinosa		
Febrile Neutropenia: Antipseudomonal beta-lactam	□MASCC score (<21) High risk patients Criteria below:		
monotherapy(including		-	1
carbapenem)	Characteristics	Score	ļ
car bapenem)	Burden of febrile neutropenia with no or mild	5	
	symptoms ^a		
	No hypotension (systolic blood pressure >90 mmHg)	5]
	No chronic obstructive pulmonary disease ^b	4	1
			1
	Solid tumor or hematologic malignancy with no previous fungal infection ^c	4	
	No dehydration requiring parenteral fluids	3]
	Burden of febrile neutropenia with moderate symptoms	3	
	Outpatient status	3]
	Age <60 years	2	1
Diabetic foot infection:	□Residence in a warm climate		J
Pseudomonas risk factors:	□High local prevalence □History of pseudomonal infection □Use of carbapenem is indicated Meropenem 1 g Q8h or imipenem/cilastatin 500 mg Q6h (use only when required; extended-spectrum β lactamase [ESBL]– producing pathogens		
	expected)	_	
UTI: Risk factors for MDRO			
□Long term catheterization			
	□Broad spectrum antibiotics exposure within the past 90 days □ History of MDRO □ Recurrent UTI		
☐ Nosocomial UTI☐ History of ESBL producing agents within the past 60 days			
			-
Colorectal surgery	□Infected with MDR/ESBL		
□Colonized with MDR/ESBL			
	☐ Hospitalized for more than 7 days ☐Multiple hospital admission within the past 3 months		
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	□Antibiotic treatment of a systemic infection within	the last	month



References:

- IDSA guidelines (For each indication mentioned above)
- ASHP/ASP Pharmacist guide on the use of antimicrobial
- John Hopkins medicine on the empirical use of antibiotics
- IHS guidelines on the empiric use of antibiotics
- Antimicrobial prophylaxis on HIS