Galway: GAPP - Galway Antimicrobial Prescribing Policy / Guidelines (GAPP): Pneumocystis jirovecii pneumonia (PJP)

Pneumocystis jirovecii pneumonia (PJP)

- 1. Discussion with Microbiology or Infectious Diseases recommended.
- 2. Co-trimoxazole in high dosage is the treatment of choice for mild, moderate and severe PJP.
- 3. For moderate to severe disease (Pa02 ≤9kPa on room air), high dose steroids should be co-administered with anti-pneumocystis therapy and should be discontinued before anti-pneumocystis therapy is complete: Prednisolone 40mg PO twice daily for 5 days, then 40mg once daily for 5 days, then 20mg once daily to complete a total of 14 to 21 days (depending on duration of PJP treatment).

ection	1 st Line	2 nd line	Comment
рјр	Co-trimoxazole* IV/PO 120mg/kg/ day	Severe disease:	Duration (ID or Micro consult
	divided into a 6 to 8 hourly dosing regimen	Pentamidine IV 4mg/kg once daily	recommended):
	e.g. 30mg/kg every 6 hours*	Only to be used if intolerant or unresponsive to co- trimoxazole. Risk	Non-HIV infected: 14 -21 days HIV infected: 21 days
	e.g. 70kg patient: 70x120 = 8,400mg	of significant adverse events including	
	daily, dosing regimen would be	severe hypotension and	
	2,100mg every 6 hours (round dose to nearest 480mg=1920mg)	hypoglycaemia with administration.	
	In severe disease consider oral switch at same dose when clinically improving.	Atovaquone	
	In mild to moderate disease consider oral route from outset.	OR Dapsone + Trimethoprim	
		OR Clindamycin + Primaquine	
		Contact Microbiology or Infectious Diseases or Pharmacy for advice and dosing.	

Caution with dose calculation as errors have occurred when dosing is based on the trimethoprim component (as recommended in US literature)

Refs:

- Guidelines for the Prevention and Treatment of Opportunistic Infections in Adults and Adolescents with HIV. National Institutes of Health, Centers for Disease Control and Prevention, HIV Medicine Association, and Infectious Diseases Society of America. Available at https://clinicalinfo.hiv.gov/en/guidelines/adult-and-adolescent-opportunistic-infection. Accessed 23rd April 2024.
- 2. Pneumocystis jirovecii pneumonia. Catherinot et al. Infect Dis Clin North Am 2009;24:107-138

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