TREATMENT OF PNEUMOCYSTIS PNEUMONIA

INFECTION	TREATMENT			FURTHER INFORMATION	PROPHYLAXIS	LICENCE/
	SEVERITY	1 ST LINE	2 ND LINE			AVAILABILITY
PNEUMOCYSTIS PNEUMONIA (PCP) (Pneumocystis jiroveci)	Mild to Moderate PaO ₂ >9.3kpa on room air	Co-trimoxazole oral 1920mg TDS or 90mg/kg/day in 3 divided doses (rounded to nearest 480mg) Duration: 21 days	Option1: Clindamycin oral 600mg tds ♦ + Primaquine* oral 30mg OD Option2: Dapsone 100mg oral daily + Trimethoprim oral 20mg/kg/day in 3 divided doses rounded to nearest 50mg	*Check G6PD prior to prescribing dapsone or primaquine but do not delay treatment.	For prophylaxis for HIV patients click here For all other patients refer to patient speciality and reason for immunosuppression or seek advice from ID/Microbiology.	Primaquine is not licensed in the UK but can be prescribed on a named patient basis — contact pharmacist to order. Atovaquone is only available as a liquid.
			Option3: Atovaquone liquid oral 750mg BD, with food (preferably high fat) Duration: 21 days	Atovaquone has poor bioavailability. Presence of food (particularly high fat) increases the absorption 2-3 fold.		Both clindamycin and trimethoprim are off label for treatment of PCP.
	Severe PaO ₂ ≤9.3kpa on room air	infusion 120mg/kg/day for 3 days then reduce to IV/PO 90mg/kg/day for 18 days. The total daily dose may be divided in 3-4 doses. Total duration 21 days + steroids (see further information box) **Oral co-trimoxazole has very good bioavailability. Review IV daily and switch to oral at same dose when appropriate after clinical improvement to complete course	Option1: Clindamycin IV infusion 600 QDS or 900mg TDS + Primaquine* oral 30mg OD Option2: **Pentamidine isetionate IV infusion 4mg/kg OD in 250ml 5% glucose over at least 60 mins Reduce dose to 3mg/kg od if toxicity Caution: hypotension, hypoglycaemia Duration: 21 days	*Check G6PD prior to prescribing dapsone or primaquine but do not delay treatment. If O₂ saturations <92% or PaO₂ ≤9.3kpa on room air start steroids at the same time as treatment (or within 72 hours). Prednisolone oral: 40mg bd for 5 days 40mg od for 5 days 20mg daily for 11 days then stop. If IV steroid required use methylprednisolone at 75% of oral prednisolone dose. Pneumothorax is a common complication of severe disease and carries a poor prognosis. CXR required if deterioration and/or chest pain.	For prophylaxis for HIV patients click here For all other patients refer to patient speciality and reason for immunosuppression or seek advice from ID/Microbiology.	**Pentamidine should be made in Pharmacy Aseptic Unit

Reference: ♦Dose recommended in BNF 2023 <u>US HIV Guidelines 2023</u> <u>BHIVA OI Guidelines 2011</u> <u>EACS Guidelines 2022</u>