

Principles of penicillin therapy : the therapeutic objective in all cases - to kill the infection with penicillin.

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SYSTEMIC Approach.
 INJECTION, using blood stream to carry penicillin into infected areas. CRYSTAPEN Injection provides the promptest and most vigorous attack. ESTOPEN focuses the attack on the respiratory area. The suspensions of procaine penicillin and benathamine penicillin provide a longer sustained but less vigorous attack. ORAL administration is a convenient but less direct systemic approach. Some penicillin is lost in the alimentary tract, but adequate dosage secures sufficient concentration in the blood circulation to kill less severe and reasonably accessible infections.

LOCAL Approach.
 TOPICAL application must be intensive, to shorten period of application and thus lessen any risk of skin sensitisation. If no improvement is noticed after three or four days intensive treatment, the infection is probably insensitive and further application of penicillin alone is unlikely to benefit the case.

PRINCIPLES OF PENICILLIN THERAPY
 THE THERAPEUTIC OBJECTIVE in all cases—to Kill the infection with penicillin

These tables summarise essential details and general guidance. Glaxo literature on the individual products should be consulted for fuller information.



LOCAL Penicillin: Indicated for superficial penicillin-sensitive infections :
 (Penicillin and Streptomycin combined (shaded type) for mixed infections where gram negative organisms may be present)

Location	Prepn.	PRODUCT (Glaxo names in capitals)	Special Features	Composition	POTENCY penicillin units per gram	APPLICATION	PACK	Face PRICE
SKIN	CREAM	MYLIPEN Cream	Stable penicillin cream with penetrating base	Procaine penicillin in water-miscible base	10,000	Several times daily for 3 to 4 days Skin infections ; prophylaxis in burns	½ oz. tube	2/6
	OINTMENT	CRYSTAPEN Ointment	Double B.P. strength	Sodium penicillin in bland stable base	2,000	Several times daily for 3 to 4 days	½ oz. tube	1/9
		MYSTREPTON Ointment	Penicillin and streptomycin for mixed infections	Sodium penicillin and dihydro-streptomycin in bland stable base	2,000 (+ 10 mg. dihydro-streptomycin)	Several times daily for 3 to 4 days For mixed infections where gram negative organisms may be present	½ oz. tube	3/-
		Penicillin Ointment B.P. Glaxo	B.P. Ointment	Sodium penicillin in paraffin base	1,000	Several times daily	1-oz. tube	1/6
		High Potency CRYSTAPEN Ointment	Very high potency	Sodium penicillin in bland stable base	25,000	Several times daily for 3 to 4 days Dermatology and ophthalmology	1 dr. tube with eye nozzle	2/3
THROAT EYE	LOZENGES	Penicillin Lozenges B.P. Glaxo	Foil-protected rolls Long lasting lozenge base	Sodium penicillin in lemon flavoured base	1,000 units per lozenge	Consecutive lozenges to be allowed to dissolve slowly between gum and cheek. Prescribe 10 or 20 lozenges	Tube of 20 Bulk: 1,000 loz. in rolls of 10	1/2 34/6

SYSTEMIC Penicillin: Indicated for penicillin-sensitive infections in tissues or blood stream.
(Penicillin and Streptomycin (shaded type) if gram negative organisms also suspected)

Route	Effect	PRODUCT (Glaxo names in capitals)	Special Features	Composition	Form of Administration	Average DOSAGE and Therapeutic Notes	POTENCY (penicillin units)	PACK	Face PRICE	
INJECTION (normally intramuscular)	PROMPT HIGH LEVEL	CRYSTAPEN for injection	Vigorous bactericidal penicillin action promptly in blood, and thence in tissues	Crystalline sodium penicillin G	AQUEOUS Solution	For routine use: Adults, 500,000 to 1,000,000 u. once or twice daily. Higher dosage for less accessible infections, e.g., endocarditis. Intrathecal use: special dosage.	100,000 units vial 200,000 units vial 500,000 units vial 1,000,000 units vial 2 mega units vial 5 mega units vial		1/- 1/1½ 1/9 2/7½ 4/3 10/1½	
		CRYSTAMYCIN	Crystapen 'advantages with widened antibacterial range from streptomycins	'Crystapen' plus streptomycin and dihydro-streptomycin	AQUEOUS Solution	Single dose at intervals of 24 hours Mixed or partially resistant infections.	500,000 units per vial (with 0.25 gm. streptomycin and 0.25 gm. dihydro-streptomycin)	"Single dose" vial	3/9	
	SELECTIVE	ESTOPEN	Focuses Penicillin activity in LUNGS and RESPIRATORY tract	Penicillin ester (penethamate hydriodide)	AQUEOUS suspension	Adults: 500,000 to 1,000,000 u. Ch'ren.: 100,000 to 250,000 u. Infants: 50,000 to 100,000 u. } once or twice daily MAXIMUM—Adults, 2 mega per day Respiratory Infections	500,000 units vial 100,000 units vial (Infants pack)		2/6 1/3	
		ESTOMYCIN	Penicillin with Streptomycin in LUNGS and RESPIRATORY tract	'Estopen' (see above) plus streptomycin	AQUEOUS suspension	As 'Estopen' (see above) Mixed, or partially resistant respiratory infections	500,000 units 'Adult' dose vial (contains also streptomycin) 1 gm. 100,000 units 'infant' dose vial (contains also 0.2 gm. streptomycin)		6/- 1/10½	
	PROLONGED with Initial PEAK	SECLOPEN	Prolonged level plus initial peak	Procaine/sodium penicillins	AQUEOUS suspension	1 to 2 cc. at intervals of 24 hours	400,000 per 1 cc.	"Single dose" vial "Five 1 cc. doses" vial	1/9 5/6	
		SECLOMYCIN	Prolonged level plus initial peak and streptomycin	'Seclopen' plus streptomycin	AQUEOUS suspension	1 to 2 cc. at intervals of 24 hours Mixed or partially resistant infections	400,000 per vial (with 0.5 gm. streptomycin)	"Single dose" vial	3/6	
		PROLOPEN	Prolonged level plus initial peak	Procaine/sodium penicillins, with alumin. stearate	OIL suspension ready-to-use	1 to 2 cc. at intervals of 24 hours Often favoured in V.D. practice	400,000 per 1 cc.	"Ten 1 cc. doses" vial	12/1½	
	PROLONGED	BENAPEN	Ultra-prolonged level	Benethamine penicillin, a new salt	AQUEOUS suspension ready-to-use	1 to 2 cc. at intervals of 3 or 4 days for early and fully susceptible infections	300,000 per 1 cc.	"Ten 1 cc. doses" vial	11/-	
		MYLIPEN	Convenient ready to-use 'prolonged level' injection	Procaine penicillin	AQUEOUS suspension ready-to-use	1 to 2 cc. at intervals of 24 hours Convenient for fully susceptible infections and ambulant patients	300,000 per 1 cc.	"Ten 1 cc. doses" vial	9/6	
		Procaine Penicillin G Oily Injection Glaxo		Procaine penicillin in oil	OIL suspension ready-to-use		300,000 per 1 cc.	"Ten 1 cc. doses" vial	9/6	
	ORAL		CRYSTAPEN Tablets <i>s/c</i>	Convenient prescription for patients' administration	Potassium penicillin oral tablets (two potencies)	TABLETS	Infants: Up to 125 mg. tablet Children (1 to 5 yrs.): 125 mg. tablet Adults and older children: 250 mg. tablet Given every four hours during daytime Milder infections, especially in children	125 mg. (200,000 units) per tablet 250 mg. (400,000 units) per tablet	Bottle of 12 Bottle of 100 Bottle of 500 Bottle of 12 Bottle of 100 Bottle of 500	5/3 36/- 174/- 9/6 70/- 345/-

All prices subject to usual professional discount