

Estimated penetration levels at different sites

Area	Estimated % of serum concentration	Comments
Serum	20mg/L	After 5mg/kg dose
CSF	very low	Better in newborns
Pleural	50%	
Pericardial	50%	
Ascitic fluid	50%	Can reach 90% in those with infection
Bone and joint	Limited penetration	Depends on vascular supply
Synovial fluid	exceeds 50%	
Bronchial secretions	25-50%	Nebulised Gentamicin achieves higher levels
Epithelial lining	30%	
Urine	500%	
Kidneys	40%	85% in renal cortex
Bile	30-40% in bile	
Prostate	poor	
Aqueous and vitreous humor eye	poor	Direct intravitreal injection in severe infections
Perilymph of inner ear	good	
Placenta	Crosses into foetal blood	