

BUG BUSTERS

TOPICAL PREPARATIONS

ANTIBIOTICS

	Name	Vial Size	Brands	Strength	Preparation	Refrigeration	Shelf Life	Spectrum
1	Vancomycin	500mg	Ancomycin Celovan Covancin	50mg/ml (5%)	"Reconstitute 500 mg of vancomycin powder for injection with 2 ml sterile water/BSS. Add to 8ml of artificial tears"	4 degrees	1week at 4 degree	Active against GPCs - MRSA, MDR Staphylococcus epidermidis
2	Cefazolin	500mg	Azolin Cefadin Cefacas	50mg/ml (5%)	"Reconstitute parenteral Cefazolin 500mg with 2ml sterile water available with the injection and add to 8ml of artificial tears"	4 degrees C	1week at 4 degree	GPC, GPB, E.coli, Proteus, H.influenza
3	Tobramycin	80mg/2ml	Alitop, Bactob	14mg/ml (1.4%)	"Add 2ml/80mg of parenteral tobramycin to commercially available tobramycin eye drops 0.3% 5 ml 15mg/5ml"	4 degrees	1week at 4 degree	Aerobic Gram-negative organisms
4	Gentamicin	80mg/2ml	Biogracin, Garamax	14mg/ml (1.4%)	"Add 2ml/80mg of parenteral gentamicin to commercial gentamicin ophthalmic solution 0.3% 5 ml (15mg/5ml)"	4 degrees	1week at 4 degree	Aerobic GNBs
5	Amikacin	250mg/2ml	Abm, Acil, Acmacin	2.50%	Parenteral Amikacin 250mg/2ml is mixed with 8 ml artificial tears			Gram neg esp Pseudomonas, Mycobacterium & Nocardia
6	Linezolid	200mg/100ml	Anzolid, Linospan	2 mg/ml (0.2%)	"Can use directly from parenteral Linezolid available as 200mg/100ml (2mg/ml) IV infusion"			Aerobic GPC including MRSA and VRE
7	Ceftazidime	500mg	Afzid C-Zid	50mg/ml (5%)	Reconstitute 500mg of Ceftazidime powder for injection with 10 ml sterile water/BSS.	4 deg C	1week at 4 degree	Aerobic GNBs, GPBs including Pseudomonas
8	Imipinem	500mg	Cilanem, Cilaspena	10mg/ml (1%)	"To 500mg add 10ml sterile water Take 1 ml of this solution and add 4 ml sterile water"	4 deg C	3 days at 4 degree	MDR GPB, GNBs including Pseudomonas, therapeutic option for infections caused by MDR pathogens
9	Colistin	1million IU (75mg)	Xylistin	1.9mg/ml (0.19%)	Reconstitute 1MIU(75mg) Colistimethate Sodium in 10ml sterile water. Draw 1ml of this and add 3 ml of sterile water	4 deg C	1week at 4 degree	Gram negative bacilli and Multi drug resistant Pseudomonas & Acinetobacter

ANTI FUNGAL

	Name	Vial Size	Brands	Strength	Preparation	Refrigeration	Shelf Life	Spectrum
1	Amphotericin B	50mg	Amfotex Ambilip Amfitas	0.15%	"Add 10 ml distilled or sterile water to parenteral 50mg of amphotericin B powder for injection. Draw 3 ml of this and add to 7ml of artificial tears eye drops"	4 degrees	1week at 4 degree	Yeasts, filamentous fungi (resistance reported Aspergillus)
2	Voriconazole	200mg	Voriva Voriz Voraze	1%	Mix 20 ml ringer lactate to 200 mg voriconazole lyophilized powder	4deg C	1week at 4 degree	Broad-spectrum activity against moulds and yeasts

ANTI PROTOZOAL

1	Chlorhexidine Diguconate	0.02%	Add 5microlitre ofchlorhexidine Diguconate solution (20% in water) in 5ml of Moisol using micropipette (1:1000 dilution)		4deg C	1week at 4 degree	Acanthamoeba
2	Polyhexamethyl Biguanide (PHMB)	0.02%	Add 5microlitre of PHMB solution (20%) in 5ml of Moisol using micropipette (1:1000 dilution)		4deg C	1week at 4 degree	Acanthamoeba

SUBCONJUNCTIVAL DOSE

S.No	Drug	Dose (mg)
1	Vancomycin	25
2	Cefazolin	100
3	Tobramycin	10-20
4	Gentamicin	10-20
5	Amikacin	25
6	Ceftazidime	100-200
9	Voriconazole	10 (Not used)
10	Amphotericin B	5-10

INTRAVITREAL PREPARATIONS

	Name	Strength	Brand	Vial Size	Preparation	Refrigeration	Shelf Life	Spectrum	Repeat Injection
1	Vancomycin	1 mg/ 0.1 ml	Ancomycin Celovan Covancin	500mg	Reconstitute 500mg of vancomycin powder for injection with 10 ml sterile water/BSS. Take 0.2 ml of this solution and make it 1 ml.	4 degrees C	24 hrs	Active against GPCs - MRSA, MDR Staphylococcus epidermidis	72hrs
2	Cefazolin	2.25mg/ 0.1 ml	Azolin Cefadin Cefacas	500mg	Reconstitute parenteral Cefazolin 500mg with 2ml sterile water. Take 0.1 ml of this solution and make it 1 ml.	4 degrees C	24 hrs	GPC, GPB, E.coli, Proteus, H.influenza	24hrs
3	Amikacin	0.4mg/ 0.1ml	Abm , Acil , Acmacin	100mg/ 2ml 500mg/ 2ml	From Parenteral Amikacin 100mg/2ml or 50mg /1 ml take 0.2 ml and add 2.3 ml sterile water. From Parenteral Amikacin 500mg/2ml take 0.2 ml and add 6.15 ml sterile water.	4 degrees C	24 hrs	Gram neg esp Pseudomonas, Mycobacterium & Nocardia	24-48hrs
4	Gentamycin	0.2 mg/ 0.1 ml	Biogracin Garamax	80mg/ 2ml	Take 0.1 ml solution from 2ml/80mg of parenteral gentamicin and add 1.9 ml sterile water/BSS.	4 degrees C	24 hrs	Aerobic GNBs	72-96hrs
5	Amphotericin B	5µgm/ 0.1 ml	Amfotex Ambilip Amfitas	50mg	Add 10 ml of 5% dextrose to parenteral 50mg of amphotericin B powder. Take 0.1 ml of this solution and add 0.9 ml of 5% dextrose in the solution.	4 degrees C	24 hrs	Yeasts, filamentous fungi (resistance reported for various species ofAspergillus)	48hrs
6	Voriconazole	50-100µgm/ 0.1 ml	Voriva Voriz Voraze	200mg	Mix 20 ml ringer lactate/ distilled water to 200 mg voriconazole lyophilized powder. Take 1 ml of the solution and add 9 ml of RL/distilled water to it. 0.05 ml of the solution has 50-100µgm/0.1 ml	4 degrees C	24 hrs	Broad-spectrum activity against moulds and yeasts	48hrs
7	Ceftazidime	2.25mg/ 0.1ml	Afzid C-Zid	250mg/ml 500mg/2ml	Take 0.1 ml solution from 250mg/ml or 500mg/2ml of parenteral ceftazidime and add 0.9 ml sterile water/ BSS.	4 degrees C	24 hrs	Aerobic GNBs, GPBs including Pseudomonas	48-72hrs
8	Ciprofloxacin	100µgm/ 0.1 ml	Alcipro	200mg/ 100ml	"Directly loaded from the sterile vial and injected intravitreally, 0.05 ml"	Room Temp		"Broad-spectrum activity against aerobic Gram-positive and Gram-negative bacteria, Actinomyces, Nocardia spp."	12hrs
9	Moxifloxacin	200µgm/ 0.1 ml	Vigamox	Topical 0.5%	Take 0.05 ml of 0.5% moxifloxacin(Preservative free)	Room Temp		"Broad-spectrum activity against Gram-positive and Gram-negative organisms"	12hrs

INTRASTROMAL PREPARATIONS

1	Voriconazole	50 µgm/ 0.1ml	"From1% Topical solution voriconazole, take 1ml, add 19 ml ringer lactate to make 0.05mg/ml (50 µgm/0.1ml)"	To be used immediately	Broad-spectrum activity against moulds and yeasts
2	Amphotericin B	5 -10 µgm/ 0.1ml	"Add 10 ml distilled or sterile water to parenteral 50mg of amphotericin B powder. From 5mg/ml solution take 0.2ml solution and add 0.8ml BSS / sterile water. Now, take 0.1ml of this solution and add 0.9ml BSS/Sterile water to create 0.1mg/1ml Amphotericin B equivalent to 10 µgm/0.1ml"	To be used immediately	Yeasts, filamentous fungi (resistance reported for various species ofAspergillus)

INTRAVENOUS

S.No	Drug	Dose	Brands
1	Vancomycin	2 g daily in 2 doses	Covancin, Cp-Van
2	Cefazolin	1-6 g daily in 3-4 divided doses	Azolin, Cefadin, Ciprid
3	Tobramycin	3-5 mg/kg daily in 2-3 doses	Tobacin, Tobax
4	Gentamicin	3-5 mg/kg/ day in 2-3 divided doses	Alpagen, Avrocin
5	Amikacin	15 mg/kg/day in 2-3 divided doses	Abcin, Abiox
6	Ceftazidime	2-6 g daily in 2-3 divided doses	Fortum, Megazid
7	Imipinem	2 g daily in 3-4 divided doses	Cilanem, Cilaspena, Lastinem
8	Voriconazole	6 mg/kg IV every 12 hours (24 hours), then 4mg/kg × 12 hours or 200 mg/day BD	Voriva, Voriz
9	Amphotericin B	10-20 µgm/ml infusion	Amfitas, Amfocare