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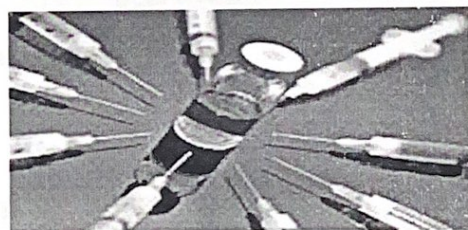
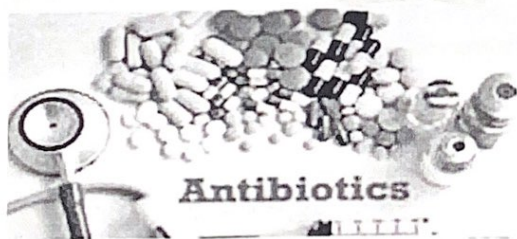
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## ANTIBIOTIC POLICY VERSION-II 2020-2021



<i>Antibiotic Policy Committee</i>	<i>Dechen</i>	<i>Yes</i>
Prepared by:	Reviewed by: <b>Dr. Dechen C. Tsering</b> PROFESSOR Dept. of Microbiology	Approved by: <b>Dr. Rogash Verma</b> Medical Superintendent
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## ANTIBIOTIC GUIDELINES CENTRAL REFERRAL HOSPITAL

Prepared by Antibiotic Policy Committee

- Dr. Dechen C. Tsering Member Secretary, HICC
- Dr. Kumar Nishant, Professor, Department of Surgery
- Dr. Jyotsna Kapil, Professor, Department of Microbiology
- Dr. Ashish Sharma, Professor, Department of Paediatrics
- Dr. Dheeraj Khatri, Associate Professor, Department of Medicine
- Dr. Pesona Grace Lucksom, Associate Professor, Department of OBG
- Dr. Chandrakala Sharma, Professor, Department of Pharmacology

Approved by

Dr Yogesh Verma  
(Medical Superintendent, CRH)

<i>Antibiotic Policy Committee</i>	<i>Dechen C. Tsering</i> Dechen C. Tsering Member Secretary HICC & BMW, Central Referral Hospital Gangtok	<i>Yogesh Verma</i> Yogesh Verma Medical Superintendent Central Referral Hospital 13th Mile Tadong, Gangtok Sikkim - 737102
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## INTRODUCTION

Antimicrobial resistance (AMR) has been detected in all parts of the world and currently it is one of the greatest challenges to global public health (WHO 2014). The threat is compounded by the lack of development of new antibiotics. A safe and effective strategy for antibiotic use involves prescribing an antibiotic only when it is needed and selecting an appropriate and effective agent at the recommended dose, with the narrowest spectrum of antimicrobial activity, fewer adverse effects and low cost.

The following information is intended to serve as a guide, to aid in the selection of an appropriate antimicrobial for patients with infection commonly seen in clinical practice. The hospital antibiogram is reviewed every year and antibiotic recommendations are modified accordingly.

### Guide to prudent antibiotic prescribing

- Prescribe antibiotic only if clinically indicated according to the patient's clinical signs and symptoms of infection and/ or sepsis.
- Always obtain culture before starting empiric antimicrobial treatment.
- Review the need of antimicrobials within 72 hours.
- Prescribe antimicrobials as per local up to date evidence based guidelines and local susceptibility pattern.
- If a patient is on IV therapy, review and consider switching to oral therapy, depending on the clinical condition of the patient and diagnosis of infection.
- Review microbiology results and susceptibility testing of microorganisms and change therapy accordingly. Switch to narrow spectrum agents and prescribe antibiotic for the recommended duration as per local guidelines.

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## A. GASTROINTESTINAL & INTRA-ABDOMINAL INFECTIONS

Condition	Likely Causative Organisms	Empiric (Presumptive) antibiotics/ First Line	Alternative antibiotics / Second Line	Comments
Acute Gastroenteritis	Viral Enterotoxigenic & Enteropathogenic <i>E. coli</i>	None	None	Rehydration (oral / IV) essential
Acute watery diarrhoea (Cholera suspected)	<i>V. cholerae</i>	Doxycycline 300mg Oral Stat Azithromycin Oral in Children (20mg/Kg) and pregnant women (1g)	Azithromycin 1gm Oral stat or Ciprofloxacin 500mg BD for 3 days	Rehydration (oral / IV) essential Antibiotics are adjunctive therapy
Bacterial dysentery	<i>Shigella sp</i> <i>Campylobacter</i> , Non-typhoidal <i>Salmonellosis</i>	Ceftriaxone 2gm IV OD for 5 days or oral cefixime 10-15 mg/kg/day x 5days	Azithromycin 1g Ods x 3 days	
Amoebic dysentery	<i>E. histolytica</i>	Metronidazole 400mg oral TDS for 7-10 days	Tinidazole 2gm Oral OD for 3 days	Add diloxanide furoate 500 mg TDS for 10 d
Giardiasis	<i>Giardia lamblia</i>	Metronidazole 250-500mg oral TDS x 7-10 days	Tinidazole 2gm oral x 1 dose	

<i>Antibiotic Policy Committee</i>	<i>Dechen</i> <b>Dr. Dechen C. Tshering</b> Member Secretary HCC & BMW, Central Referral Hospital Sini Mile Tadong, Gangtok	<i>Yogesh</i> <b>Dr. Yogesh Verma</b> Medical Superintendent Central Referral Hospital Sini Mile Tadong, Gangtok Sikkim - 737100
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Enteric fever	<i>S. Typhi</i> <i>S. Paratyphi A</i>	<b>Outpatients:</b> Cefixime 20mg/Kg /day or 14 days or Azithromycin 500mg BD for 7 days. <b>Inpatients:</b> Ceftriaxone 2g IV BD for 2 weeks +/- Azithromycin 500 mg BD for 7 days	Cotrimoxazole 960 mg BD for 2 weeks	Majority of strains are nalidixic acid resistant Ceftriaxone to be changed to oral cefixime when patient is afebrile to finish total duration of 14 days
Cholangitis	Enterobacteriaceae Anaerobes	Piperacillin Tazobactam 4.5 g IV Q8H. Ertapenem 1g IV OD (for severely ill pts. -Sepsis or Septic Shock)	Cefoperazone sulbactam 3gm iv B.D. for 7 days	
Acute Cholecystitis	Enterobacteriaceae	Piperacillin Tazobactam 4.5 g IV Q8H	Cefoperazone sulbactam 3gm iv B.D. for 7 days	
Spontaneous bacterial peritonitis	E.coli	Piperacillin Tazobactam 4.5 g IV Q8H	Cefoperazone sulbactam 3gm iv B.D. for 7 days	
Secondary peritonitis (bowel perforation)	Enterobacteriaceae Anaerobes	Ertapenem 1gm iv od	Cefoperazone sulbactam 3gm iv B.D. for 7 days emergency surgery to eliminate source of contamination	
Intra abdominal abscess	Enterobacteriaceae anaerobes	Ertapenem 1gm iv od	Emergency drainage	

Prepared by: \_\_\_\_\_ Reviewed by: **Dr. Dechen C. Tshering** Member Secretary IGC & BMW, Central Referral Hospital Tadong, Gangtok

Approved by: **Dr. Yogesh Verma** Medical Superintendent Central Referral Hospital 5 Mile Tadong, Gangtok Sikkim - 737102

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Acute pancreatitis			routine use of prophylactic antibiotics not recommended
Liver abscess	Polymicrobial	Amoxycillin-clavulanate/3 <sup>rd</sup> generation Cephalosporin +Metronidazole 500mg IV TID for 2 weeks	Piperacillin – Tazobactam IV

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B. CENTRAL NERVOUS SYSTEM INFECTIONS				
Condition	Likely causative Organisms	Empiric antibiotics (Presumptive antibiotics)	Alternative antibiotics	Comments
Acute bacterial Meningitis	<i>S.pneumoniae</i> , <i>H.influenzae</i> , <i>Neisseria meningitidis</i>	Ceftriaxone 2g IV 12hourly/ Cefotaxime 2g IV 4-6 hourly for 10-14 days	Meropenem 1gm IV 8 hourly	Antibiotics should be started as soon as the possibility of bacterial meningitis becomes evident. Ideally within 30 minutes. Do not wait for CT scan or LP results.
Brain abscess	<i>Streptococci</i> , <i>Bacteroides</i> , <i>Enterobacteriaceae</i> , <i>S.aureus</i>	Ceftriaxone 2g IV 12hourly or Cefotaxime 2g IV 4-6 hourly AND Metronidazole 1gm IV 12 hourly Duration of treatment to be decided by clinical and radiological response, minimum two moths required	Meropenem 2gm IV 8 hourly	

	 Sr. <b>Tshering C. Tshering</b> Member Secretary HICC & BMW, Central Referral Hospital Tadong, Gangtok	 <b>Dr. Yogesh Verma</b> Medical Superintendent, Central Referral Hospital 5th Mile Tadong, Gangtok Sikkim - 737102
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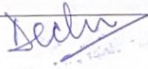

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## SEPSIS/SEPTIC SHOCK

Sepsis	<i>E.coli,</i> <i>Klebsiella, Enterobacter, Pseudomonas,</i> <i>Acinetobacter, S.aureus,</i> <i>Streptococcus spp</i>	Piperacillin-Tazobactam, Meropenem, Imipenem, or Colistin	To step down or modify according to c/s report
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	 <b>Dr. Dechen C. Tshering</b> Member Secretary Central Referral Hospital Tadong, Gangtok	 <b>Yogesh Verma</b> Medical Superintendent Central Referral Hospital 5th Mile Tadong, Gangtok Sikkim - 737102
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C. CARDIOVASCULAR INFECTIONS				
Condition	Likely causative Organism	Empiric antibiotics (Presumptive antibiotics)	Alternative antibiotics	Comments
Infective Endocarditis: Native valve	<i>Viridans streptococci, other Streptococci, Enterococci</i>	Penicillin G 2-3 millions unit, iv 4 hourly X 4 weeks 2. Ceftraxone 2gm iv OD x 4 -6 wks.+ Inj. Gentamycin		Modify antibiotics based on culture result and complete 4-6 weeks of antibiotics
Infective Endocarditis: Prosthetic valve awaiting cultures	<i>MSSA, Streptococcus, Enterococcus</i>	Vancomycin 15mg/kg IV 12 hourly (maximum 1g 12 hourly)  Teicoplanin 12mg/kg IV 12hourly X 3 doses followed by 6-12 mg once daily IV depending upon severity + Gentamicin 1mg/kg q12h IV	Daptomycin can be used in place of Vancomycin/ Teicoplanin for patient unresponsive to or intolerant of Vancomycin/ Teicoplanin or with Vancomycin/Glycopeptide-resistant isolates	Antibiotic choice as per sensitivity. Guidance from infectious disease specialist or microbiologist is recommended.

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D. URINARY TRACT INFECTION				
Conditions	Likely causative Organism	Empiric antibiotics (Presumptive antibiotics)	Alternative antibiotics	Comments
Acute uncomplicated cystitis & Urethritis	<i>E.coli, Staphylococcus saprophyticus</i> (in sexually active young women), <i>Klebsiella pneumoniae</i>	Nitrofurantoin 100 mg BD for 7 days or Cotrimoxazole 960mg BD for 3-5 days Fosfomycin 3gm OD single dose	Amoxyclav, Levofloxacin, Ciprofloxacin	
Asymptomatic Bacteriuria (positive urine culture from an individual without symptoms or signs of UTI)	<i>E.coli</i>	No antimicrobial treatment needed		Screening and treatment of Asymptomatic bacteriuria is indicated for a) Pregnant women b) Patients undergoing urologic procedure  Nitrofurantoin 100mg BD for 7 days OR Cap Amoxicillin 500mg BD for 7 to 10 days OR Oral Cephalosporins

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Pyelonephritis (Uncomplicated)	<i>E.coli</i> & <i>Pseudomonas</i>	Piperacillin+ Tazobactam 4.5gm IV 6 hourly OR Amikacin 1g OD IV OR Cefoperazone Sulbactam 3gm Iv 12hourly	Levofloxacin 750mg od	In pregnancy Inj.Ceftriaxone
Complicated UTI	<i>E.coli</i> , <i>Proteus</i> & <i>Pseudomonas</i>	Meropenem 1gm IV tid	Levofloxacin, Amikacin. (based on culture)	
Foleys Catheter associated UTI	<i>E.coli</i> & <i>Pseudomonas</i>			No empiric treatment



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E . RESPIRATORY TRACT INFECTIONS				
Condition	Likely causative Organism	Empiric antibiotics (Presumptive antibiotics)	Alternative antibiotics	Comments
Community acquired Pneumonia	<i>S. pneumoniae</i> <i>H. influenzae</i> , <i>E.coli</i> , <i>Legionella spp</i> , <i>Klebsiella spp</i>	Cefexime 200 mg oral BD for 7 to 10 days Azithromycin 500 mg oral Moxifloxacin 400mg oral/ IV OD for 7-10 days OR Levofloxacin 750mg oral or IV OD for 5 days		As Tuberculosis is endemic, in our country , use of Fluroquinolones has to be avoided. They have been kept reserved for MDR tuberculosis
Acute Bacterial Exacerbation of COPD	<i>S. pneumoniae</i> <i>H. influenzae</i> , <i>Moraxella</i>	Amoxyclav 625 mg oral TDS for 7 days OR Azithromycin 500 mg oral OD for 3 days	Cefpodoxime 200mg bid	
Acute Pharyngitis	Group A Beta haemolytic Streptococci	Amoxicillin 500 mg TDS for 10 days OR Azithromycin 500 mg OD for 5 days	Roxithromycin	

Prepared by: \_\_\_\_\_  
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F . SKIN AND SOFT TISSUE INFECTIONS				
Conditions	Likely causative Organism	Empiric antibiotics (Presumptive antibiotics)	Alternative antibiotics	Comments
Cellulitis	<i>Staphylococcus aureus</i>	Amoxyclav 1.2 IV TDS OR 625 mg oral TDS for 5-7 days Ceftriaxone 2gm IV OD for 5-7 days Clindamycin 600-900 mg IV TDS for 5-7 days		
Furuncles , Carbuncles , Cutaneous abscesses	<i>Staphylococcus aureus</i>	Tab Cloxacillin 500mg 6 hourly for 7 to 10 days		
Burn Wound Infections	<i>Pseudomonas spp, Staphylococcus aureus</i>	Piperacillin + Tazobactam 4.5 gm IV 6 hourly Cefazoline 1gm IV 8 hourly		
Necrotizing fasciitis	<i>Strept. pyogenes , Staphylococcus aureus</i>	Piperacillin + Tazobactam 4.5 gm IV 6 hourly Cefoperazone Sulbactam 3gm IV 12 hourly		

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G . BONE AND JOINTS INFECTIONS				
Conditions	Likely causative Organism	Empiric antibiotics (Presumptive antibiotics)	Alternative antibiotics	Comments
Acute Osteomyelitis	<i>Staph. aureus</i> , <i>Strept. pyogenes</i>	Ceftriaxone 2gm IV OD followed by oral therapy Cloxacillin 500mg 8 hourly Cephalexin 500 mg 6 hourly for 4-6 weeks		
Chronic Osteomyelitis	<i>Staph. aureus</i> , aerobic GNB <i>Streptococci</i> & <i>Anaerobes</i>	No Empiric therapy		Definitive treatment guided by bone/synovial biopsy and culture.
Septic Arthritis	<i>Staph. aureus</i> ,	Cefazolin 1gm IV 8 hourly for 3 weeks or Cloxacillin 500mg 8 hourly for 3 weeks OR Cefuroxime 250-500 mg oral for 3 weeks		

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## H. ENT INFECTIONS

Conditions	Likely causative Organism	Empiric antibiotics (Presumptive antibiotics)	Alternative antibiotics	Comments
Otitis externa	<i>Staph. aureus</i>	Cefuroxime Cefadroxil		
Malignant Otitis externa	<i>Pseudomonas aeruginosa</i>	Piperacillin + Tazobactam 4.5 gm IV 6 hourly OR Imipenem, Meropenem, ciprofloxacin		
Acute otitis media	<i>Strept pneumoniae</i> , <i>H. influenzae</i> , <i>Moraxella</i>	Amoxycylav 90/6.4 mg /kg/day BID OR Cefpodoxime/ Cefuroxime 250mg BD		
Chronic otitis media	<i>Proteus spp</i> , <i>Staph. aureus</i> , <i>Pseudomonas Spp</i> , <i>coliforms</i>	Gentamycin / Neomycin drops with hydrocortisone		
Acute Bacterial Rhinosinusitis	<i>Strept pneumoniae</i> , <i>H. influenzae</i> , <i>Moraxella</i>	Amoxycillin 500mg / Oral TID for 10-14 days		

Prepared by:	Reviewed by: <b>Dr. Dechen C. Tshering</b> Member Secretary HIOC & BMW Central Referral Hospital	Approved by: <b>Dr. Yogesh Verma</b> Medical Superintendent Central Referral Hospital

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I. FEBRILE ILLNESS				
Conditions	Likely causative Organism	Empiric antibiotics (Presumptive antibiotics)	Alternative antibiotics	Comments
Scrub Typhus	<i>Orientia tsutsugamushi</i>	Doxycycline 100mg BD for 7 days		
Enteric Fever	<i>Salmonella Typhi, Salmonella paratyphi</i>	<b>Outpatients</b> Cefexime 20 mg/kg/day for 14 days OR Azithromycin 500mg BD for 7 days OR <b>Inpatients</b> Ceftriaxone 2 gmIV bd for 2 weeks +/- Azithromycin 500mg bd for 7 days		Avoid use of Fluoroquinolones

J. Eye infections				
Conditions	Likely causative Organism	Empiric antibiotics (Presumptive antibiotics)	Alternative antibiotics	Comments
Blepharitis	<i>S. aureus, S.epidermidis</i>	oral Cloxacillin 250 to 500 mg qid or oral Cephalexin 500mg qid	warm compress 24 hourly, artificial tears if associated with dry eye	
viral conjunctivitis		no antibiotic treatment required		

Prepared by:	Reviewed by: <b>Dr. Dechen C. Ishering</b> Member Secretary IACC & BMW	Approved by: <b>Dr. Yogesh Verma</b> Medical Superintendent

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Bacterial conjunctivitis	<i>S.aureus, S.pneumoniae, H. influenzae</i>	Ophthalmologic solutions Gatifloxacin 0.3%, Levofloxacin 0.5%, Moxifloxacin 0.5% 1-2 drops q2h while awake during first 2 days then q4-8 hourly upto 7 days		
<b>corneal infections</b>				
Herpes simplex keratitis	Herpes simplex type 1 and 2	Trifluridine ophthalmic solution 1 drop 2 hourly upto 9 times per day until reepithilised then 1 drop 4 hourly upto 5 times per day for 21 days total	gancyclovir 0.15% ophthalmic gel	
Varicella zoster ophthalmicus	Varicella zoster virus	Famcyclovir 500mg bd or valacyclovir 1 gram oral tid for 10 days	acyclovir 800mg 5 times per day for 10 days	
Acute bacterial keratitis	<i>S. aureus, S. pneumoniae, S. pyogenes, Haemophilus spp.</i>	Moxifloxacin 0.5% 1 drop 1 hourly for first 48 hours then reduce as per response	gatifloxacin 0.3% ophthalmic solution 1 drop 1 hourly for first 48 hours then reduce as per response	

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K. Paediatric Infections				
Conditions	Likely causative Organism	Empiric antibiotics (Presumptive antibiotics)	Alternative antibiotics	Comments
Urinary Tract Infection	<i>E.coli, Klebsiella, Proteus</i>			
Pyelonephritis		Amikacin 10-15mg/kg/day IV OD or Ciprofloxacin 15-20mg/kg/day		Avoid use of Fluoroquinolones
Cystitis /uncomplicated UTI		Oral Coamoxyclav 40-50mg/kg/day BD Cotrimoxazole 8-10mg/kg/day PO		
Respiratory Tract Infection				
Community acquired Pneumonia	<i>Streptococcus pneumoniae, Haemophilus influenzae</i>	Amoxycillin/Clavulanic acid for 5-10 days Injection Ampicillin + injection Gentamicin for 5-10 days		
Upper respiratory tract infections				
Bacterial Pharyngotonsillitis	Group A <i>Streptococcus</i>	Oral Amoxycillin for 10 days or Azithromycin for 5 days		
Faucial diphtheria	<i>Corynebacterium diphtheriae</i>	Erythromycin for 14 days or Azithromycin for 5 days		
Acute Otitis media		Oral Amoxyclav for 7-10 days		
Acute sinusitis with URI		Oral Amoxyclav for 7-10 days		
Febrile illness				

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Enteric fever	<i>Salmonella Typhi and S. Paratyphi A</i>	Outpatient Cefixine 20mg/kg/day for 14 days or Azithromycin 10-15mg/kg/day for 7 days Inpatient Inj Ceftriaxone	Oral	
Scrub Typhus	<i>Orientia tsutsugamushi</i>	Azithromycin or Doxycycline		
Early onset neonatal sepsis		Inj. Ampicillin + Gentamicin		
Late onset neonatal sepsis		Inj. Ampiclox + Amikacin		

	<i>Dechen</i> Dr. Dechen C. Tsia Member Secretary	<i>Yogesh</i> Dr. Yogesh Verma Medical Superintendent
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L. Obstetric and gynaecological infections				
Conditions	Likely causative Organism	Empiric antibiotics (Presumptive antibiotics)	Alternative antibiotics	Comments
asymptomatic bacteriuria		Nitrofurantoin 100mg oral Bd for 7 days or Amoxycillin 500 mg oral bd for 7-10 days or Fosfomycin single dose	oral cephalosporins	screen in first trimester of pregnancy
Group streptococcal diseases	Group B Streptococci	iv Penicillin G 5 million units (loading dose) then 2.5-3 million units iv qid until delivery or Ampicillin 2 gram iv ( loading dose) then 1 gram qid until delivery	cefazolin 2 grams iv (loading dose) then 1 gram tid clindamycin 900 mg iv tid	associated with high risk of preterm labour, still birth, neonatal sepsis
chorioamnionitis	Group B Streptococcus, gram negative bacilli, Chlamydiae, Ureaplasma and anaerobes	Clindamycin, Vancomycin, Teicoplanin and cefoperazone sulbactam, if patient is not in sepsis then iv Ampicillin/Amoxyclav		
septic abortion		Amoxyclav or ampicillin 500mg qid + metronidazole 500 mg iv tds	Ceftriaxone 2grams iv od	
obstetric sepsis during pregnancy	Group A beta haemolytic Streptococcus, E. coli, Anaerobes	Amoxyclav or Ceftriaxone 2 gram iv od + metronidazole 500 mg iv tds +/- gentamycin 7mg per kg per day		

	 <b>Dr. Dechen C. Tsho</b> Member Secretary	 <b>Dr. Yogesh Verma</b> Medical Superintendent
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acute toxoplasmosis in pregnancy		<18 weeks of gestation at diagnosis spiramycin 1 gram oral qid until 16-18 weeks / pyrimethamine + sulfadiazine alternate every 2 weeks >18 weeks gestation: pyremethamine 50 mg oral bd for 2 days then 50 mg od + sulfadiazine 75 mg/kg oral x 1 dose then 50 mg per kg bd +folinic acid 10-20mg oral daily for minimum of 4 weeks		
candidiasis	Candida species	fluconazole oral 150 mg single dose for milder cases intra vaginal agents as creams or suppositories clotrimazole, miconazole, nystatin single dose to 7-14 days		
bacterial vaginosis	polymicrobial	metronidazole 500mg oral bd for 7 days or tinidazole 2 grams oral od for 3 days		treat the partner
trichomoniasis	Trichomonas vaginalis	metronidazole 2 gram single dose or 500mg oral bd for 7 days or tinidazole 2 gram oral single dose		treat the partner

	<i>Dechen</i>	
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cervicitis, urethritis	polymicrobial	ceftriaxone 250mg im single dose + azithromycin 1 gram single dose or doxycycline 100mg bd for 7 days		
pelvic inflammatory diseases (salpingitis and tuboovarian abscess)	S.aureus, Enterobacteria ceae, Gonococci, Gardenella	ceftriaxone 250mg im/iv single dose + metronidazole 500mg bd for 14 days + doxycycline 100mg bd for 14 days		

	<i>Dechen</i>		<i>Jy</i>
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## Antimicrobial susceptibility profile of Blood Stream Infections (BSI) – Year 2020-2021

TABLE 1: AST Profile of organisms causing BSI – Susceptible percentage (%)

	<i>Escherichia coli</i> (n= 38)	<i>Klebsiella spp.</i> (n= 26)	<i>Staphylococcus aureus</i> (n= 20)
Ampicillin	18%	8%	
Nalidixic acid	18%	27%	
Ciprofloxacin	21%	27%	20%
Cefuroxime	26%	15%	
Cefuroxime Axetil	29%	15%	
Ceftriaxone	29%	19%	
Trimethoprim Sulfamethoxazole	50%	35%	25%
Cefepime	55%	38%	
Gentamycin	61%	38%	75%
Amoxicillin Clavulinic acid	63%	23%	
Piperacillin-Tazobactam	68%	27%	
Cefoperazone Sulbactam	76%	27%	
Imipenem	79%	46%	
Meropenem	79%	35%	
Amikacin	84%	35%	
Ertapenem	87%	62%	
Tegecycline	87%	69%	
Azteronam	89%	100%	97%
Levofloxacin	89%	100%	15%
Colistin	95%	27%	
Ceftazidime	95%	100%	
Ticarillin-Clavulinic acid	97%		

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Doripenem	97%	100%	94%	
Nitrofurantoin	97%	65%	100%	
Minocycline	100%	100%	97%	
Oxacillin			20%	
Erythromycin			35%	
Clindamycin			40%	
Linezolid			80%	
Vancomycin			85%	
Tetracycline			85%	
Ticoplanin			90%	
Rifampicin			90%	
Benzylpenicillin			100%	
Daptomyin			100%	
Tigecycline			100%	

>80% Susceptible

70-79% Susceptible

<69% Susceptible

Antibiotic susceptibility profile of UTI – Year 2020-2021

TABLE 2: AST Profile of organisms causing UTI – Susceptible percentage (%)

	<i>Escherichia coli</i> (n= 354)	<i>Klebsiella spp.</i> (n= 93)	<i>Enterococcus faecalis</i> (n= 70)
Ampicillin	22%	5%	
Nalidixic acid	25%	35%	
Ciprofloxacin	32%	37%	79%
Cefuroxime		30%	
Cefuroxime Axetil	40%	32%	
Ceftriaxone	39%	33%	
Trimethoprim Sulfamethoxazole	51%	46%	100%
Cefepime	69%	51%	
Gentamycin	79%	68%	80%
Amoxicillin	66%	42%	
Clavulanic acid			

	 <b>Dr. Dechen C. Tshering</b> Member Secretary HCC & BMW, Central Referral Hospital, Gangtok, Sikkim	 <b>Dr. Yogesh Verma</b> Superintendent Central Referral Hospital, Gangtok, Sikkim
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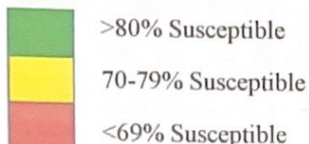
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Piperacillin-Tazobactam	74%	49%	
Cefoperazone Sulbactam	81%	53%	
Imipenem	88%	68%	
Meropenem	88%	63%	
Amikacin	92%	70%	
Ertapenem	94%	89%	
Tegecycline		86%	
Azteronam			
Levofloxacin		100%	79%
Colistin	88%	82%	
Ceftazidime	93%	95%	
Ticarcillin-Clavulinic acid	89%	93%	
Doripenem		98%	
Nitrofurantoin	73%	37%	93%
Minocycline	99%	98%	
Oxacillin			100%
Erythromycin			80%
Clindamycin			99%
Linezolid			99%
Vancomycin			93%
Tetracycline			80%
Ticoplanin			93%
Rifampicin			100%
Benzylpenicillin			77%
Daptomyin			81%
Tigecycline	98%		100%
Cefalotin	90%	96%	
Cefixine	90%	100%	
Cefoxitin	97%	98%	
Aztreonam	99%	96%	

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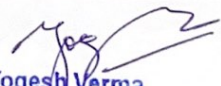
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## Antimicrobial susceptibility profile of CATHETER TIP – Year 2020-2021

TABLE 3: AST Profile of organisms isolated from catheter tip– Susceptible percentage (%)

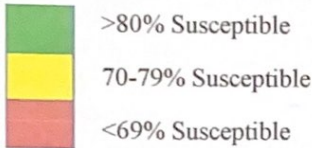
	<i>Escherichia coli</i> (n= 11)	<i>Klebsiella spp.</i> (n= 05)	<i>Acenetobacter spp.</i> (n= 03)
Ampicillin	18.2%	0	
Ciprofloxacin	36.4%	40%	
Cefuroxime	18.2%	60%	
Cefuroxime Axetil	18.2%	20%	
Ceftriaxone	27.3%	40%	
Trimethoprim Sulfamethoxazole			
Cefepime	63.7%	40%	
Gentamycin	63.7%	60%	
Amoxicillin Clavulanic acid	27.3%	0	
Piperacillin-Tazobactam	36.4%	20%	
Cefoperazone Sulbactam	63.7%	40%	
Imipenem	72.8%	40%	
Meropenem	72.8%	40%	
Amikacin		60%	
Colistin		60%	
Nitrofurantoin	45.5%	60%	

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## Antimicrobial susceptibility profile of Skin and Soft Tissue Infections- Year 2020-2021

TABLE 4: AST Profile of organisms isolated from Skin and Soft Tissue Infections – Susceptible percentage (%)

	<i>Staphylococcus aureus</i> (n= 138)	<i>Escherichia coli</i> (n= 77)	<i>Klebsiella spp.</i> (n= 32)
Benzylpenicillin	5%		
Ampicillin		32%	16%
Nalidixic acid		34%	44%
Ciprofloxacin	14%	35%	47%
Levofloxacin	16%	87%	
Linezolid	28%		
Cefuroxime		40%	41%
Cefuroxime Axetil		40%	41%
Ceftriaxone		52%	50%
Trimethoprim Sulfamethoxazole	37%	49%	44%
Erythromycin	40%		
Oxacillin	49%		
Clindamycin	60%		
Cefepime		68%	50%
Gentamycin	91%	77%	66%
Vancomycin	96%		
Tetracycline	96%		
Rifampicin	96%		
Ticoplanin	99%		

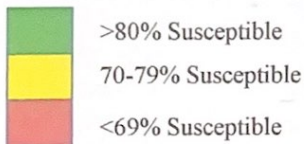
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Amoxicillin		70%	47%
Clavulanic acid			
Piperacillin-Tazobactam		73%	47%
Cefoperazone Sulbactam		91%	47%
Imipenem		87%	53%
Meropenem		88%	56%
Colistin		91%	66%
Nitrofurantoin	99%	87%	66%
Daptomycin	100%		
Tigecycline	100%	97%	69%
Aztrenonam		90%	
Ceftazidime		92%	94%
Amikacin		92%	62%
Ticarcillin-Clavulanic acid		94%	94%
Ertapenem		94%	75%
Doripenem		96%	
Minocycline		99%	



Antimicrobial susceptibility profile of Respiratory Tract Infections – Year 2020-2021

TABLE 5: AST Profile of organisms causing Respiratory Tract Infections – Susceptible percentage (%)

	<i>Klebsiella</i> spp. (n= 29)	<i>Acenetobacter</i> spp. (n = 21)	<i>Escherichia coli</i> (n= 19)
Ampicillin	7%	100%	11%

Prepared by: \_\_\_\_\_  
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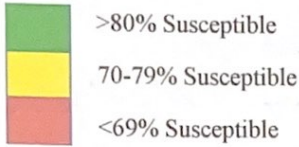
Nalidixic acid	45%	100%	21%
Ciprofloxacin	31%	62%	26%
Cefuroxime	38%	100%	26%
Cefuroxime Axetil	38%	100%	26%
Ceftriaxone	34%	95%	32%
Trimethoprim Sulfamethoxazole	62%	81%	47%
Cefepime	66%	62%	47%
Gentamycin	86%	67%	63%
Amoxicillin Clavulinic acid	69%	100%	32%
Piperacillin-Tazobactam	79%	52%	47%
Cefoperazone Sulbactam	79%	67%	53%
Imipenem	90%		58%
Meropenem	90%	48%	79%
Amikacin	86%	62%	95%
Ertapenem	93%	57%	84%
Tegecycline	69%	100%	89%
Azteronam		100%	95%
Levofloxacin	97%	71%	95%
Colistin	83%	90%	84%
Ceftazidime	97%	71%	95%
Ticarcillin-Clavulinic acid	93%	67%	89%
Doripenem	100%	57%	95%
Nitrofurantoin	66%	100%	79%
Minocycline		86%	95%
Oxacillin	97%		
Cefalotin	97%	100%	95%
Cefixine	97%	100%	95%
Cefoxitin	100%	100%	95%

Prepared by: \_\_\_\_\_  
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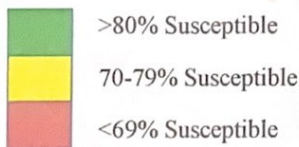
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## Antimicrobial susceptibility profile of ET Tube- Year 2020-2021

TABLE 6: AST Profile of organisms isolated from ET Tube – Susceptible percentage (%)

	<i>Acinetobacter</i> spp. (n=69)	<i>Klebsiella</i> spp. (n= 22)	<i>Escherichia coli</i> (n= 10)
Imipenem	19%	55%	70%
Meropenem	23%	46%	80%
Ciprofloxacin	23%	32%	30%
Piperacillin-Tazobactam	25%	32%	60%
Cefoperazone Sulbactam	34%	41%	60%
Amikacin	28%	64%	
Doripenem	32%		
Gentamicin	32%	64%	70%
Levofloxacin	65%		
Cefuroxime	70%	14%	70%



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# Documented Procedure

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## Antimicrobial susceptibility profile of Body Fluids- Year 2020-2021

TABLE 9: AST Profile of organisms isolated from Body Fluids – Susceptible percentage (%)

	<i>Escherichia coli</i> (n= 07)	<i>Acinetobacter baumannii</i> (n = 05)	<i>Klebsiella spp.</i> (n= 05)
Ampicillin	20%		65%
Nalidixic acid	10%		55%
Ciprofloxacin	16%	25%	
Cefuroxime	20%		50%
Trimethoprim	95%	60%	
Sulfamethoxazole			
Cefepime		50%	
Gentamycin	95%	32%	95%
Amoxicillin			50%
Piperacillin-Tazobactam		20%	25%
Cefoperazone Sulbactam	25%		
Cefotaxime Sulbactam		62%	
Imipenem	90%	30%	50%
Meropenem	80%	30%	25%
Amikacin	93%	32%	90%
Ertapenem	70%		40%
Tigecycline	80%	90%	80%
Levofloxacin	16%	55%	
Colistin		95%	90%
Ceftazidime		55%	
Doripenem		50%	
Cefixime	30%		
Piperacillin	50%		

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