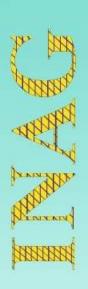
الدليل العراقي لأستعمال المضادات الحياتية

مقاومة البكتيريا للمضادات الحياتية تمثل أكبر تهديد للصحة العالمية





IRAQI National AntimicRobial Guidelines

First Edition 2020









IRAQI National Antimicrobial Guidelines (INAG)

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First Edition 2020









In the Name of ALLAH.

Antimicrobial resistance has become a global problem which needs great concern. The main responsible factors for this problem are the use of the antimicrobials whether rationally or irrationally. One of the activities under the main mission of The Ministry of Health and Environment is the promotion of the rational use of antimicrobials. The Ministry has regulations for the use of certain types of these drugs, however the need of guidelines for the rest of antimicrobials remained an important issue and challenge for the Ministry. These national guidelines should be focused to enhance appropriate use of antimicrobials and recommends the antimicrobial treatment for the common infectious diseases in Iraq.

I am happy to note that the clinical pharmacy section in the pharmacy department in collaboration with the department of therapeutics in the directorate of technical affairs has undertaken the opportunity to publish the first and new IRAQI NATIONAL ANTIMICROBIAL GUIDE (INAG), which will pave the way for rationalizing the use of antimicrobials in the health care facilities in the country, thereby reducing the development of antimicrobial resistance. These guidelines were prepared with the excellent cooperation with the consultant committees of different high specialities in the Ministry.

As these guidelines put the appropriate step in the rational use of antimicrobials according to the national list of antimicrobials approved by the national committee for selection of drugs (NCSD), I hope that the clinicians in our country, both in the public and private sectors, would use them to the optimum for the benefit of the patients.

I congratulate the directorate of technical affairs and all the contributors who have worked hardely for preparing this document.

Dr. Jaffar Allawi MD

Minister of Health and Environment

In the Name of ALLAH.

The problem of antimicrobial resistance in pathogens is a threat to all our health system. It is recognized as a global threat to human beings and their health. The problem does not stop at the drug use level, however it is associated with increased morbidity, mortality and hospitalization and healthcare costs. Resistance to antimicrobials started with the simple and widely used antimicrobials, and nowadays even the potent and expensive antimicrobials have been under the same problem. The main cause of this problem is well known to be the irrational use and misuse of these antimicrobials. In Iraq, just like all over the world, it is an important health issue which has, in addition to the aforementioned, its socio-economic impact.

The rational use of antimicrobials needs to be increased by increasing the awareness in all health care team members. The directortate of technical affairs is in charge of the rational use of these drugs by the collaboration between the clinical pharmacy section in the department of pharmacy and departments of therapeutics, laboratories, and consultant committees. The cornerstone for the rational use of antibiotics is preparing a document that should be followed by all the healthcare team. In this regard the clinical pharmacy section in the pharmacy department in collaboration with the department of therapeutics has prepared this document. the IRAQI NATIONAL ANTIMICROBIAL GUIDE (INAG) which is under our hands now to be a concise guide for common infectious diseases in Iraq using the national list of antimicrobial drugs prepared by the national committee for selection of drugs (NCSD) which is considered to be the higher authority for drug approvals in the country. These guidelines will definitely help to minimize inappropriate use of antimicrobial agents, optimize selection, to choose the right dose and duration of treatment, to minimize detrimental adverse events, excessive costs and lastely the emergence of resistant strains. It should be put in mind that guidelines do not replace the need for consultation for expert advice. It should also be put in mind that different individual patient needs need full attention when choosing the appropriate

antimicrobial agent within the guidelines and so these guidelines should be used in context of the patient case to reach the best clinical responces.

As antimicrobial drugs are a big field of newly patented drugs and a largely changing sensitivity of microorganisms, we hope that the authors update this guide according to any changes in the national list and according to the accumulated data base of resistance and sensitivity. And here I have to express my deep thanks for the efforts of the authors and contributors and consultant committees who have given their valuable input for the document. We also hope that this document would be helpful to all physicians, pharmacists and the other healthcare professionals both in public and private sectors to lower the AMR burden in our country.

Dr. Hani Moosa Badr

Director General - Directorate of Technical Affairs

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Preface

Rational use of drugs is one of the cornerstones in successful clinical practice. Antimicrobial drugs, unlike other drugs, are agents that achieve their action by targeting microbes that can change their response by mutation leading to resistance which is entitled as one of the greatest healthcare threats globally.

The most important role in rational use of drugs is to give the right drug in the right dose by the right route for the right patient for the right duration (the 5 rights). This document simplifies these points for the health-care professionals by putting the essential information in a tabulated form.

Antimicrobials have saved many lives worldwide since the first antibiotic was discovered. Decades after that many antibiotics have been discovered giving the opportunity to treat a wide variety of infections which otherwise were life-threatening. However, developing new antibiotics is not an easy procedure, and in the last two decades a little of new antibiotics have been discovered leaving us with the old ones, some of have microorganisms developed resistance against them. Antimicrobial resistance has been found to increase and so most of the newly discovered antimicrobials are rendered ineffective leaving the patients with costly treatments or even impossible cure. As a result, many hospital acquired infections are associated with high morbidity and mortality rates, and leading to high health-care costs. Resistance has been found to increase worldwide in new and expensive antibiotics such as imipenem, meropenem, fluoroquinolones and third generation cephalosporins reaching to levels of 50% and above. It has been found that even new resistant strains such as methicillin resistant staph aureus (MRSA) is increasing leading to higher morbidity and mortality rates. This problem depends on different factors such as location, availability of antimicrobials in hospitals, irrational prescribing and dispensing habits, and even high tourism activity which spreads the resistant strains all over the world. Irrational use of antimicrobials, as well as their misuse and selfmedication have been considered as the main causes of emergence and spread of resistant strains. From this we can notice the importance of different steps in this long way starting from increasing awareness about the problem among the different stakeholders, setting guidelines, and stewardship committees.

This document – the **IRAQI NATIONAL ANTIMICROBIAL GUIDE (INAG)** – is one of the important steps in the aforementioned process. It should be kept in mind that information herein are recommendations for paving the way towards the rational use of these drugs, and may not apply to specific patients. Clinical judgment and data from antibiograms as well as specific regulations made by pharmacy and therapeutic committees and antibiotic committees in hospitals may not be overcome putting in mind the goal of rational drug use.

Finally, as this is considered to be the first document in this field, it should be revised according to the updated data of antimicrobials and resistance pattern of the microbes in the country. Any comments or suggestions for improvement are welcomed.

The Authors

Acknowledgment

Our deep thanks are due to Pharmacist Hala Hadi Abdullah – the previous head of the pharmacy department, at her time was most of the work in this document. Her daily followup and encouragement gave us continuous push to continue this hard work.

Many thanks are due to Pharmacist Nawfal Karim Abdulhadi – the present head of the pharmacy department for his encouragement to continue this document and finalize it.

Thanks also to Dr. Faiz AbdulShaheed and Pharmacist Haider Hussein Mutlak, the deputies director general of the Directorate of Technical Affairs for their encouragement to finalize this document.

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	пертноюву	- الدكتُور قاسم راهي عيسى الطائي / دائرة صحة بغداد – الكرخ / مستشفى
		الطفل المركزي
		 الدكتور عدنان عبد العظيم مهدي الحسني / دائرة مدينة الطب
		- الدكتور حسنين محد علي العامري / دائرة صحة البصرة / مركز البصرة
		لزرع الكلى

AIMS OF GUIDELINES

- To provide a simple, straight forward approach to the empirical treatment of common infections in Iraq
- To promote the rational (safe, effective and economic) use of antibiotics according to the nationally approved antimicrobial drugs
- To put a concise document under the hands of the healthcare team to delay the emergence of bacterial resistance in the community

PRINCIPLES OF ANTIMICROBIAL PRESCRIBING

The following principles should be highlighted regarding prescribing antimicrobials:

- 1- They should not be prescribed unless there is clear diagnosis. This needs minimum appropriate investigations for diagnosis and prognosis and follow up done by microbiological samples before starting therapy even when empiric therapy is to be started. These are to done to build up a national data base which could give a clear view of types of microorganisms and resistance patern within a given period.
- 2- Start with the first line in the treatment group
- 3- Start with non-drug treatment if the illness does not need the use of antimicrobial agents.
- 4- Empiric therapy should be considered with a number of limitations (be carefull, study all causes and interactions, attain synergy, review diagnosis in context of available microbiological data, consider the cost of treatment)
- 5- Consider the risk-benefit balance especially in conditions like pregnancy
- 6- Obstructive lesions should be treated in ways (opening or drainage) to clear the site from any causes of recurrence.
- 7- Consider the dose adjustment in cases such as renal impairment, liver dysfunction, pediatrics and geriatrics, and different hemodynamics of patients
- 8- Consider the availability of drugs and formulary restrictions.
- 9- Choose the antimicrobial according to local antibiogram in the health-care setting
- 10- Initiate antibiotics as soon as possible in severe infections
- 11- Do not prescribe an antibiotic for viral sore throat, simple coughs and colds.

- 12- Don't prescribe antibiotics for acute self-limiting upper respiratory tract infections, or delay prescription
- Use simple antibiotics first whenever possible.
- 14- Combination therapy is to be considered only in cases like preventing bacterial resistance in long term therapy, synergy in cases like infective endocarditis and in mixed infections, or to reduce doses of toxic drugs
- 15- True penicillin allergy should be considered before prescribing. This should be confirmed by medication history or allergy tests.
- 16- Avoid broad spectrum antibiotics when narrow spectrum agents are effective, as this increases the risk of MRSA and resistant UTIs.
- 17- Macrolide antibiotics should be only prescribed in preference to penicillins where the patient is truly allergic.
- In pregnancy AVOID tetracyclines, aminoglycosides, quinolones, and high dose (> 400mg) metronidazole.
- 19- In children AVOID tetracyclines and quinolones.
- 20- Give antibiotics for the SHORTEST time possible.
- 21- Certain drug interactions may have an impact on anti-microbial drug dosing.
- 22- Breast feeding is a condition that needs attention when prescribing antimicrobials to nursing mothers.
- 23- The antimicrobial therapy should be reviewed continuously for changing or stopping.

MONITORING ANTIMICROBIAL USE

According to the WHO reports, the irrational use of antimicrobials is leading to resistance of microbes to their action and hence inability to treat and cure common illnesses caused by infections in the community and hospitals. The highest proportion is amongst microbes that cause common infections throughout the world. This is very common when there is high rate of irrational use of these drugs which could be overuse, underuse, inappropriate choice, and incorrect dose — high or low, and poor compliance with treatment. That is why monitoring antimicrobial use is essential in improving health care programmes in hospitals, health care centers and the community.

Surveillance activities are essential for updating data regarding resistance patterns of bacteria to antimicrobials, updating guidelines and regulations of use. Antibiograms made in drug information centers in collaboration with the antibiotic stewardship committees in the hospitals (clinical pharmacist, physician, and microbiologist) are considered to be regional surverys helping in identifying priorities and types of interventions for this goal.

The Defined Daily Dose (DDD) is the gold standard recommended by the WHO for drug safety assessment and pharmacoepidemiology and for comparing data on drug use at different national and international levels.

THE NATIONAL DRUG LIST OF ANTIMICROBIAL DRUGS

5 A a. Penicillins
Amoxycillin as trihydrate tab or cap 500mg
Amoxycillin as trihydrate 125mg/5ml suspension
Amoxycillin as trihydrate 250mg/5ml (100 ml) suspension
Amoxycillin as trihydrate drop 50mg/ml (20 ml) suspension
Amoxycillin as sodium inj 250mg per vial
Amoxycillin as sodium inj 500mg per vial
Amoxycillin as sodium 1g I.V., I.M inj
Amoxycillin as trihydrate 250mg + clavulanic acid as pot. salt 125mg tab
Amoxycillin as trihydrate 400mg + clavulanic acid as pot. salt 57mg susp (70 ML)
Amoxycillin as trihydrate 600mg + Clavulanic acid as pot. 42.9mg/5ml susp
Amoxycillin as trihydrate 500mg + clavulanic acid as pot. salt 125mg tab
Amoxycillin as trihydrate 875mg + clavulanic acid as pot. 125mg tab
Amoxycillin as trihydrate 125mg + clavulanic acid as pot. salt 31.25mg/5ml susp
Amoxycillin as trihydrate 250mg + clavulanic acid as pot. salt 62.5mg/5ml susp
Amoxycillin as sodium 500mg + clavulanic acid as pot. salt 100mg inj/vial
Amoxycillin as sodium 1000mg + clavulanic acid as pot. salt 200mg inj/vial
Ampicillin as trihydrate cap 250mg
Ampicillin as trihydrate cap 500mg
Ampicillin as trihydrate syrup125mg/5ml
Ampicillin as trihydrate syrup 250mg/5ml
Ampicillin as sodium inj 250mg per vial
Ampicillin as sodium inj 500mg per vial I.V. I.M.
Ampicillin 250 mg + flucloxacillin 250 mg vial
Benzathine penicillin inj 0.6M U per vial
Benzathine penicillin inj 1.2M U per vial
Benzathine penicillin inj 2.4M U per vial
Benzathine penicillin 0.6 M U + procaine penicillin 0.3 M U +benzylpenicillin 0.3 M U inj per vial
Benzylpenicillin (as sod. or pot.) for inj. I.M, slow I.V, & by I.V infusion 1 million unit (1mega unit)
Benzylpenicillin (as sod. or pot.) for inj. I.M, slow I.V, & by I.V infusion 2 million unit (2mega unit)
Benzylpenicillin (as sod. or pot.) for inj. I.M, slow I.V, & by I.V infusion 5 million unit (5mega unit)
Benzylpenicillin (as sod. or pot.) for inj. I.M, slow I.V, & by I.V infusion 10 million unit (10 mega unit)
Clavulanate potentiated ticarcillin inj 800mg
Clavulanate potentiated ticarcillin inj 1.6g
Clavulanate potentiated ticarcillin inj 3.2g
Flucloxacillin as sodium caps 250mg

Flucloxacillin as sodium caps 500mg Flucloxacillin as sodium syrup 125mg/5ml

Flucloxacillin as magnesium susp. 125mg/5ml

Flucloxacillin as sodium inj 250mg vial

Flucloxacillin as sodium inj 500mg vial I.V

Phenoxymethylpenicillin (Pen V) as pot. tab 250mg

Piperacillin as sodium inj 1g (I.V. & I.M)

Piperacillin as sodium inj 2g (I.V. & I.M)

Piperacillin as sodium salt 3g inj. - vial

Piperacillin as sodium inj 4g (I.V)

Procaine penicillin 300 000U (300mg) + benzyl penicillin sodium 100000 U (60mg)/vial

Procaine benzyl penicillin 600 000U vial

Procaine penicillin 1 MU vial

Procaine penicillin 600 000 U + benzylpenicillin 200 000U/vial

Tazobactam as sodium salt 250mg + Piperacillin as sodium salt 2g inj. vial (I.V Infusion)

Tazobactam as sodium salt 375mg + Piperacillin as sodium salt 3g inj. vial (I.V Infusion)

Tazobactam as sodium salt 500mg + Piperacillin as sodium salt 4g inj. (I.V Infusion).

Tazobactam as sodium salt inj. 250mg/vial

Tazobactam as sodium salt inj. 375mg/vial

Tazobactam as sodium salt inj. 500mg/vial

Ticarcillin inj 1g

5 A b.Cephalosporin

Cefixime (trihydrate) equ. to cefixime 400 mg (anhydrous) cap or tab

Cefixime (trihydrate) equ. to cefixime 200 mg (anhydrous) cap

Cefixime 100mg/5ml susp or cefixime as T.H 100mg/5ml susp

Cefdinir susp. 125mg/5ml

Cefdinir cap. 300mg

Cefaclor as monohydrate 375mg MR tab or (Extend Release) tab

Cefaclor as monohydrate 750mg MR tab or (Extend Release) tab

Cefaclor as monohydrate 250mg. cap.

Cefaclor as monohydrate 500mg, cap.

Cefaclor as monohydrate or Cefaclor unhydrous 125mg/5ml susp.

Cefaclor as monohydrate or Cefaclor unhydrous 250mg/5ml susp.

Cefditoren as pivoxil 200mg tab

Cefepime as Hcl or as Di-HCl monohydrate inj. 500mg/vial I.M., I.V vial + solvent water for injection

Cefepime as Hcl or as Di-HCl monohydrate inj. 500mg/vial I.M + solvent 1% lidocaine Hcl

Cefepime as Hcl or as Di-HCl monohydrate inj. 1g/vial I.M vial + solvent 1% lidocaine

Cefepime as Hcl or as Di-HCl monohydrate inj. 1g/vial I.V vial + solvent water for injection I.V infusion over ½hour

Cefepime as Hcl or as Di-HCl monohydrate inj. 2g/vial I.V or I.V infusion vial + solvent water for injection

Cefotaxime (as sodium salt) inj 0.5g I.V. & I.M. vial + solvent(10ml) water for injection

Cefotaxime (as sodium salt) inj 0.5g I.M. vial + solvent 1% Lidocaine Hcl

Cefotaxime (as sodium salt) inj I.M. 1g vial + solvent 1% lidocaine Hcl
Cefotaxime (as sodium salt) inj I.V. 1g vial + solvent(10ml) water for injection

Cefotaxime (as sodium salt) inj 2g vial+ solvent(10ml). (Slow I.V within 3 -5 min. or I.V Infusion within 10 - 60 min.) + solvent water for injection Cefpodoxime 100mg as cefpodoxime proxetil tab Cefpodoxime 200mg as cefpodoxime proxetil tab Cefpodoxime (as proxetil) 100 mg/ 5 ml powder for suspension Cephalexin as monohydrate caps 250mg Cephalexin (as monohydrate) = 500 mg anhydrous cephalexin 500mg cap Cephalexin as monohydrate susp 125mg/5ml suspension Cephalexin as monohydrate susp 250mg/5ml suspension Cephalexin as monohydrate drops 100mg/ml Cephalothin as sod. salt I.M inj 1g + solvent 1% lidocaine Hcl Ceftazidime as pentahydrate inj 0.5g l.M , l.V + solvent water for injection Ceftazidime as pentahydrate inj 0.5g I.M + solvent 1% lidocaine Hcl Ceftazidime as pentahydrate inj 1g I.V + solvent water for injection Ceftazidime as pentahydrate inj 1g I.M + solvent 1% lidocaine Hcl Ceftizoxime as sodium 1g I.M inj + solvent 0.5 -1% lidocain. Hcl Ceftizoxime as sodium inj I.V, I.M 500mg + solvent water for injection Ceftizoxime as sodium ini, I.M 500mg + solvent 1% lidocaine Hcl Ceftizoxime as sodium inj I.V. 1g + solvent water for injection Ceftizoxime as sodium inj I.M. 1g + solvent 1% lidocaine Hcl Ceftriaxon as sodium or as di.sod salt or(Disodium sesquarterhydrate) inj I.V, I.M 250mg + solvent(5ml) water for injection Ceftriaxon as Sodium or as di.sod. salt inj I.V, I.M 500mg + solvent(10ml) water for injection Ceftriaxon as sodium or as di.sod salt or (disodium sesquarterhydrate) I.M 500mg + solvent 1% lidocaine Hcl Ceftriaxon as sodium or as di.sod salt or (disodium sesquarterhydrate) inj I.V. 1g + solvent (10ml)water for injection Ceftriaxon as sodium or as di.sod salt or (disodium sesquarterhydrate) inj I.M. 1g + solvent 1% lidocaine Hcl Ceftriaxon as sodium (di.sod.) salt or (disodium sesquarterhydrate) powder for reconsitution for infusion(2 gm) vial Cefuroxime as axetil tab. 125mg Cefuroxime as axetil tab. 250mg Cefuroxime as axetil tab. 500mg Cefuroxime as sod inj: 750mg - vial I.V, I.M, I.V infusion Cefuroxime as axetil susp. 125mg./5ml Cefazolin inj 0.5 gm I.M , I.V + solvent water for injection

Cefazolin inj 0.5 gm I.M + solvent1% lidocaine Hcl Cefazolin inj 1 gm I.M. + solvent 1% lidocaine Hcl Cefazolin inj 1 gm I.V. + solvent water for injection

Cefadroxil cap or tab 500mg

5 A c. Aminoglycosides

Amikacin as sulphate inj 250mg/ml, (2ml vial)or amp I.M or slow IV or I.V infusion

Amikacin 500 mg amp or vial I.M or slow IV or I.V infusion

Amikacin as sulphate (paed) inj 50mg/ml, (2ml vial), amp I.M, slow I.V, I.V infusion

Gentamicin as sulphate inj 40mg/ml, (2ml vial) or amp I.M , I.V

Gentamicin as sulphate ini 10mg/ml, (2ml vial or amp.) I.M I.V

Neomycin sulphate tab 500mg

Netilmicin as sulphate inj 25mg/ml, (2ml vial)

Netilmicin as sulphate inj 100mg/ml, (1.5ml vial)

Tobramycin as sulphate inj 40mg/ml, (2ml vial)

5 A d. Tetracyclines

Doxycyclin (as hyclate)100 mg tab. or cap

Doxycyclin (as monohydrate) 100 mg dispersable tab or tab

Tetracycline Hcl caps 250mg

Tigecycline I.V. infusion inj: 50mg - vial

Tetracycline as pyrrolidinomethyl inj 250mg vial

5 A e. Chloramphenicol

Chloramphenicol as sod. succinate I.V inj 1g vial

5 A f. Sulphonamide and trimethoprim

Cotrimoxazol tab 480mg

Cotrimoxazol tab 960mg

Cotrimoxazol susp 240mg/5ml

Cotrimoxazol inj I.M 320mg/ml, (3ml amp)

Cotrimoxazol inj I.V. infusion 96mg/ml, (5ml amp)

Sulphadiazine tab 500mg

Trimethoprim tab 100mg

Trimethoprim susp 50mg/5ml

Aztreonam I.V. & I.M. inj 500mg

Aztreonam I.V. & I.M. inj 1g

Azithromycin (as dihydrate) or (as monohydrate) equ. to base anhydrous tab. or cap 250mg

Azithromycin (as dihydrate) or (as monohydrate) equ. to base anhydrous Azithromycin tab or cap. 500mg

Azithromycin (as dihydrate) or (as monohydrate) or base (anhydrous) 200mg/5ml (22.5-30ml)

Azithromycin (as dihydrate)or (as monohydrate) or base (anhydrous)100mg kid tab

Ciprofloxacin as Hcl or Ciprofloxacin as Hcl monohydrate tab 250mg

Ciprofloxacin as Hcl or Ciprofloxacin as Hcl monohydrate tab 500mg

Ciprofloxacin as Hcl or Ciprofloxacin as Hcl monohydrate tab 750mg

Ciprofloxacin 1000 mg SR cap. Or tab.

Ciprofloxacin I.V 200mg/20ml vial (1%)

Ciprofloxacin I.V 400mg/40ml vial (1%)

Ciprofloxacin flexible container (0.2%) 400mg/200ml 5% dextrose Ciprofloxacin (as lactate) 2mg/ml I.V infusion 0.9% normal saline containe/ 100 ml (200mg) container Clarithromycin tab 500mg Clarithromycin tab 500mg Clarithromycin susp 125mg/5ml (70 ml) (100 ML) Clarithromycin susp 125mg/5ml (70 ml) (100 ML) Clarithromycin susp 250mg/5ml (70 ml) (100 ML) Clarithromycin susp 250mg/5ml (70 ml) (100 ML) Clindamycin as Hcl caps 150mg Clindamycin as palmitate Hcl susp 75mg/5ml Clindamycin as phosphate inj 150mg/ml, (I.V., I.M) (2ml amp) Clindamycin as phosphate inj 150mg/ml (I.V., I.M), (4ml amp) Doripenem as monohydrate I.V Infusion : 500mg-vial Daptomycin I.V Infusion 500 mg/ vial Erythromycin as ethyl succinate drops 100mg/2.5ml Erythromycin as ethyl succinate enteric coated tab 250mg Erythromycin as ethyl succinate enteric coated tab 250mg Erythromycin as stearate film coated tab 250mg Erythromycin as stearate film coated tab 500mg Erythromycin as ethylsuccinate caps or scord tab 500mg Erythromycin as ethylsuccinate caps 250mg Erythromycin as ethylsuccinate susp 125mg/5ml Erythromycin as ethylsuccinate susp 125mg/5ml Erythromycin as ethylsuccinate susp 125mg/5ml Erythromycin as ethylsuccinate or as anhydrous 500mg + Cilastatin as sodium salt 500mg (I.V infusion inj: vial Levofloxacin temhydrate or as anhydrous 500mg + Cilastatin as sodium salt 500mg (I.V infusion inj: vial Levofloxacin temhydrate or as anhydrous 500mg + Cilastatin as sodium salt 500mg (I.V infusion tab 400mg Ofloxacin tab 500mg Sodium Fusidate 1.V. infusion 200mg-vial	Ciprofloxacin flexible container (0.2%) 200mg/100ml 5% dextrose
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Roxithromycin tab 300mg Sodium Fusidate 250mg tab	
Sodium Fusidate 250mg tab	
Sodium Fusidate I.V infusion: 500mg-vial	
	Sodium Fusidate I.V infusion: 500mg-vial

Teicoplanin inj 200mg/ vial Teicoplanin ini: 400mg/vial Vancomycin as Hcl cap 125mg Vancomycin as Hcl inj 500mg - vial Vancomycin as Hcl 1g -vial 5 A h. Antitubercular drugs Capreomycin (as sulphate) inj 1g/vial (1 g = 1 Milion unit) IV infusion Capreomycin (as sulphate) inj 1g/vial (1 g = 1 Milion unit) deep IM Cycloserine tab or cap 250mg Ethambutol Hcl tab 100mg film coated tab Ethambutol Hcl tab 400mg Ethambutol Hcl tab 500mg Ethambutol Hcl 300mg + isoniazide 100mg tab Ethionamid 250mg Tab Isoniazid Tab 50mg Isoniazid scored dispersable tab. 50mg Isoniazid Tab 100mg Isoniazid Tab 300mg (dose 3-10mg/kg body wt) Isoniazid syr 10mg/ml Kit contains (over 50kg body wt): Tab:R 600mg + H 300mg + Tab: Z 2g Tab: E 1.5g Note: Tab or cap is possible Kit contains (below 50kg body wt): Tab:R 600mg+ H 300mg+ Tab: Z 1.5g+ Tab: E 1.2g Note: Tab or cap is possible Tab or cap: R 600mg + H 300mg Kit contains: Uncoated dispersable tab. :- R 120mg + H 60mg + Z 300mg R: Rifampicin H: INH Z: Pyrazinamid E: Ethambntol Para-amino salicylic acid (PAS) 4g/sachet Prothionamid tab 250mg Pyrazinamide tab 400 mg Pyrazinamide tab 500mg Pyrazinamide scored dispersable Tab 350mg Rifampicin caps 150mg Rifampicin caps 300mg Rifampicin syr 100mg/5ml Rifampicin 300mg + isoniazid 150mg tab or cap Rifampicin 100mg + isoniazid 50mg scored dispersable tab or dispersable tab Rifampicin I.V. inj 300mg Rifampicin I.V.inj 600mg Rifampicin 60 mg + Isoniazid 30 mg/tab Rifampicin 60 mg + Isoniazid 30 mg/uncoated Dispersable tab

Rifampicin 60 mg + Isoniazid 30 mg + Pyrazinamid 150mg/tab Rifampicin 60 mg + Isoniazid 30 mg + Pyrazinamide 150 mg uncoated Dispersable tab Rifampicin 150 mg + Isoniazid 75 mg + Ethambutol 275 mg - 3Tab Rifampicin 150 mg + Isoniazid 75 mg + Ethambutol 275 mg + Pyrazinamid 400 mg(RHEZ) = KIT Rifampicin 150 mg +Isoniazid 75 mg + Ethambutol 275 mg + Pyrazinamid 400 mg- 4Tab Rifampicin 150 mg + Isoniazid 75 mg (RH) = KIT Rifampicin 150 mg + Isoniazid 75 mg/ film coated tab Rifaximin 200 mg tab Streptomycin as sulphate inj 500mg Streptomycin as sulphate inj 750mg Streptomycin as sulphate inj 1g Thiacetazone tab 50 mg Thiacetazone tab 150mg Thiacetazone 150mg + INH 300mg tab Kanamycin 1g vial Bedaquiline 100mg tab Delamanid 100mg tab 5 A i. Anti leprosy drugs Clofazimine caps 100mg Dapsone tab 50mg Dapsone tab 100mg Thiambutosine tab 500mg 5 A j. Drugs for UTI Nalidixic acid susp 300mg/5ml Nitrofurantoin tab/ caps 50mg Nitrofurantoin tab/ caps 100mg or Retard cap 100mg (macrocrystals) Nitrofurantoin 25mg / 5ml oral suspension 5 B Antiviral drugs Acyclovir (as sod. salt) inj I.V. infusion 250mg vial Acyclovir tab 200mg Acyclovir tab 400mg Acyclovir tab 800mg Acyclovir susp 200mg/5ml Acyclovir susp 400mg/5ml Didanosine (DDI) tab: 25mg Didanosine (DDI) tab or chewable tab: 100mg Didanosine (DDI) tab: 150mg Efavirenz (EFZ) 600mg tab. Or cap Entecavir as (monohydrte) 0.5 mg tab

Entecavir as (monohydrte) 1 mg tab

Entecavir as (monohydrte) oral solution 50µg/ ml Famciclovir 125mg tab Famciclovir 250mg tab Famciclovir 500mg tab Foscarnet sodium hexahydrate I.V. infusion: 24mg/ml (250ml-bottle) Ganciclovir I.V. infusion 500mg vial Indinavir (as sulphate) cap: 400mg (protease inhibitor) Lopinavir 100mg + Ritonavir 25mg tab Lopinavir 200 mg + ritonavir 50 mg/ tab Lamivudine solution 25mg/5ml Lamivudine solution 10mg/1ml Lamivudine 100mg tab Lamivudine (3TC) tab: 150mg Nevirapine tab 200mg Oseltamivir as (Phosphate) cap 45mg Palivizumab inj. 50 mg vial Palivizumab inj.100 mg vial Ribavirin (Tribavirin) inhalation: 6g for Reconstitution with 300ml water for inj (vial)+ device for administration (vial 6 gm for inhalation with erosol inhalation or nebulisation (via small partical aerosol generator) Ribavirin (Tribavirin) cap 200mg Ribavirin - oral solution 200 mg/5ml - 100ml Stavudine (d4t) cap: 15mg Stavudine (d4t) cap: 20mg Valaciclovir as HCl tab. 500mg Valganciclovir as Hcl tab: 450mg Vidarabine I.V. inj 200mg/ml, (5ml vial) Zalcitabine (DDC) tab: 375mcg Zalcitabine (DDC) tab: 750mcg Zanamivir: Dry powder for inhalation disk containing blisters of zanamivir 5mg/blister with disk haler device Zidovudine 300mg + lamivudine 150mg/tab Zidovudine 50 mg / 5 ml oral solution(as aliquid dosage form) Ombitasvir 12.5mg + paritaprevir 75mg + ritonavir 50 mg tablet or cap Ledipasvir 90mg / Sofosbuvir 400mg 1 bottle of film-coated tab Tenofovir Disoproxil Fumerate 300mg tab Dasabuvir 250 mg tab or cap for (Genotype 1,4) 5 C Antifungal drugs

Amphotericin I.V. infusion 50mg per vial Amphotericin lipid complex 100mg/ vial

liposomal Amphotericin B 50mg vial Amphotericin B lozenges 10mg Amphotericin tab 100mg Caspofungin (as acetate) I.V infusion: 50mg - vial (powder for reconstitution) Micafungin Sodium 50 mg / vial I.V infusion Fluconazole cap or film coated Tab or plain Tab 50mg Fluconazole cap or film coated Tab or plain Tab 150mg Fluconazole cap or film coated Tab or plain Tab 200mg Fluconazole scored tab or plain Tab 100mg Fluconazole oral susp 50mg/5ml Fluconazole oral susp 200mg/5ml Fluconazole I.V infusion: 2mg/ml in Nacl I.V infusion 0.9% 25ml bottle, (Electrolyte Na + 15mmol/ 100ml bottle) Fluconazole I.V infusion: 2mg/ml in Nacl I.V infusion 0.9% 100ml bottle, (Electrolyte Na + 15mmol/ 100ml bottle) Griseofulvin susp 125mg/5ml Griseofulvin tab 125mg Griseofulvin tab 500mg Itraconazole cap 100mg Ketoconazole tab 200mg Ketoconazole syrup 20mg/ml Miconazole tab 250 mg Miconazole I.V. inj 10mg/ml Nystatin tab 500000U Nystatin susp100000U/ml (30 ml) Nystatin Pastilles 100000U Terbinafin as HCl 125mg tab Terbinafin as HCI 250mg tab Voriconazole 200mg tab voriconazole 50mg tab Voriconazole 200 mg vial: 1 vial powder for solution for infusion

= to 10 mg/ml when reconstituted as recommended Posaconazole 40mg/ml suspension 5 D Antiprotozoal drugs Artemether 20mg + Lumefantrine120mg/ Tab Chloroquine phosphate or Chloroquine sulphate

Chloroquine base 150mg-tab Chloroquine sulphate syr: - 68mg/ 5ml

Chloroquine base 50mg/ 5ml Chloroquine sulphate inj. 54.5 mg/ ml ^o Chloroquine base 40 mg/ml (5 ml Amp) Diloxanide furoate tab 500mg

Dehydroemetine inj

Hydroxychloroquine sulphate tab 200mg

Mefloquine as Hcl tab or Lactab 250mg

Metronidazole coated tab 200mg or 250mg

Metronidazole coated tab 400mg or 500mg

Metronidazole I.V. infusion 5mg/ml, (100ml vial) (0.5%)

Metronidazole as benzoate susp 200mg/5ml

Meglumine antimonate ini 9 85mg of pentavalent antimony/ ml

Nimorazole oral 250mg tab

Orindazole 500mg tab

Primaquine as phosphate tab 15mg

Proguanil HCl 100mg tab

Pyrimethamine tab 25mg

Pyrimethamine 25mg + sulphadoxine 500mg tab

Pentamidine isetionate powder for inj 300mg vial I.V. Infusion

Pentamidine isetionate Nebuliser solution 300mg bottle

Quinine inj: 300mg/ ml (2ml - Amp)

Quinine sulphate tablet 200mg

Quinine di-Hcl inj: 300mg/ ml (2ml-Amp)

Sodium stibogluconate inj ⁹ pentavalant antimony 100mg/ ml (100ml vial)orsodium antimony gluconate 100mg/ml is the same sodium stibogluconate which is approved previously

Spiramycin tab 1500000 IU 9 468. 75mg or 1600000 IU 9 500mg

Spiramycin tab 3000000 IU

Spiramycin inj

Tinidazole tab 500mg

5 E Antihelminthic drugs

Albendazole 200 mg chewable or plain tab

Albendazole 400 mg tab

Albendazole suspension 100mg/5ml

Albendazole suspension 200mg/5ml (10ml)

Levamisole 40mg tab. or Levamisole as Hcl 50mg tab

Levamisole syr 40mg-50mg/5ml

Mebendazole chewable or plain tab 100mg

Mebendazole susp 100mg/5ml

Niclosamide chewable tab 500mg

Piperazine as citrate elixir 750mg/5ml (by prescription only & dose for children under 2 year is 50mg 75mg/ kg body wt one single dose for 7 days)

Praziquantel tab 600mg

Pyrvinium pamoate susp 50mg base/5ml

7 C Treatment of vulval and vaginal diseases

Acetic acid 0.92% in buffered base (PH 7.4) with applicator vag. jelly

Chlorhexidine gluconate 5% w/v obstetric cream Chloramphenicol 250mg+Cloponone 2.5mg + myralact 10mg vag. Tab Clotrimazole 1% vaginal cream Clotrimazole vag tab 100mg Clotrimazole vag tab 500mg Clotrimazole vag. Cream: 0.5g/5g with applicator. (single dose) Clindamycin (as phosphate) vag. Cream: 2% with applicators Diiodohydroxyquinoline 100mg vag tab.with applicator Furazolidone 0.25% + nifuroxime 0.376%, vag supp Furazolidone 7.5% + nifuroxime 12mg, vag supp Isoconazole nitrate vag. tab. 300mg Metronidazole vag. Gel: 0.75% with applicators Metronidazole 500 mg for vaginal use Miconazole nitrate 200mg vag. (ovules or supp or cap or tab) Miconazole nitrate 400mg vag. (ovules or supp or cap or tab Miconazole nitrate 1200 mg vag. (ovules or supp. or cap or tab) Miconazole nitrate 2% cream Miconazole nitrate 2% intravaginal cream Nifuratel vag tab 250mg Nifuratel vag oint 10% (3g/30g) Nimorazole tab 250mg see 5D Nystatin 100000 units, vag tab (pessaries) with applicator Nystatin 100000 units/4g application, vag. cream with applicator Nystatin 100000 units/g topical oint Nystatin 100000 units/g cream Sulphathiazole 3.42%+sulphacetamide 2.86% + sulphabenzamide 3.7% vag cream with applicator Tetracycline Hcl 100mg + Amphotericin 50mg vag tab 11 DRUGS ACTING ON THE EYE 11 A Anti infective preparations Acyclovir eye oint 3% Chloramphenicol eye drops 0.5% Chloramphenicol eye oint 1% Clotrimazole eye drop 1% Ciprofloxacin as Hcl eye drop 0.3% Flucytosine eye drops 1% Fusidic acid viscous eye drop 1% gel base liquify on contact with eye Gentamycin as sulphate eye/ear drops 0.3% Gentamycin as sulphate eve oint 0.3% Gatifloxacin as sesiquihydrate 3mg/ ml eye drop Miconazole eye drop (1-2%)

Neomycin sulphate + polymixin B sulphate + phenylephrine Hcl + HPM cellulose eye drop

Norfloxacin 0.3% eye/ear drop

Moxifloxacin as Hcl 0.5% (5mg/ ml) eye drop

Levofloxacin as hemihydrate 0.5% eye drop

Ofloxacin eye drop 0.3%

Polymixin B sulphate 5000 I.U + Neomycin sulphate 2.5mg ≡1.75mg Neomycin base +

Gramicidin 0.025mg/1ml eye drop

Polymixin B sulphate 16250 I.U + Neomycin sulphate 5mg ≡3.5mg Neomycin base/ml. eye drop

Rifamycin mono sodium eye drops 1%

Rifamycin sod. 10mg/1g. eye oint

Tetracycline Hcl eye oint 1%

Tobramycin eye drops 0.3%

Tobramycin eye oint. 3mg ≡ to 3000 I.U./1g

Trimethoprim 1mg + polymixin B Sulphate 10000 U/ml eye drop

12 EAR, NOSE AND OROPHARYNX

12 A Drugs acting on the ear

Aluminium acetate solution (B.P) ear drop 13%

Chloramphenicol 5% Ear drop. (It was recommended that propylene glycol should not be used as a solvent for chloramphenicol ear drops)

Clotrimazole 1% Otic solution

Dioctyl sodium sulphosuccinate 0.5% ear drops

Dioctyl sodium sulphosuccinate 5% ear drops

Framycetin sulphate ear drop 0.5%

Gentamycin as sulphate 0.3% +hydrocortisone acetate 1% ear drop

Norfloxacin drop

Polymixin B sulphate 10000 units+neomycin sulphate 3400units + hydrocortisone 10mg/ml ear drops

12 C Drugs acting on the oropharynx

Amyl meta cresol 0.5% gargle

Amphotericin B lozenges 10mg

Bisdequalinium chloride 100mg +B glycerrhetinic acid 60mg +hydrocortisone acetate 60mg +tyrothricin 400mg +lidocaine 100mg/100ml (aerosol)

Benzocaine lozenges 10mg

Benzoxonium chloride 1mg + lidocaine Hcl 1mg/Lozenges

Benzydamine Hcl 0.15% oral rinse

Benzydamine Hcl 0.15% oral spray

Carbenoxolone sod. Mouth wash

Chlorhexidine gluconate 0.2%+ Sod. Fluoride 0.05%. (mouth wash)

Chlorhexidine gluconate 1% dental (oral) gel

Chlorhexidine gluconate 0.2% mouth wash

Chlorhexidine gluconate 0.2% oral spray

Ethanol 96% + benzoic acid 0.12% + eucalyptus 0.09% + menthol 0.04% + methyl salicylate 0.05% + thymol 0.06% gargle

Lignocaine 0.6% + cetylpyridinium chloride 0.02% + menthol 0.06% + cineole 0.1% dental gel

Nystatin 100000 units/ml susp,

Miconazole base 2% oral gel

Menthol 0.4g + thymol 0.4g + Tr.Krameria 6ml + glycerin 10ml + alcohol (95%) 20ml/60ml gargle

Povidon - lodine 1% w/v mouth wash

13 G Antibacterial skin preparations

Chlortetracycline Hcl 3% Skin oint

Clindamycin as phosphate 1% topical solution

Clindamycin as phosphate 10mg/g -topical gel

Duoderm dressing (sheets)

Erythromycin base 2% topical solution in alcohol basis

Erythromycin 4%+ zinc acetate 1.2% - lotion

Framycetin sulphate 0.5% cream

Framycetin sulphate 0.5% oint

Framycetin sulphate 1.5% + gramicidin 0.005% oint

Framvcetin sulphate impregnated dressing 1%

Fusidic acid 2% cream

Gentamycin 0.3% cream

Gentamycin 0.3% oint

Mafenide as acetate 8.5% cream

Neomycin sulphate +bacitracin zinc cream

Neomycin sulphate +bacitracin zinc aerosol

Povidone iodine sterile adherent dressing

Polymixin B sulphate topical use

Silver sulphadiazine 1% cream

Sodium fusidate 2% oint

Sodium fusidate 2% cream

Tetracycline Hcl 3% skin oint

Tissue impregrated with the following mixture

Neomycin sulphate 425000 I.U+polymixin B.sulphate 300000 I.U+paraffin Q.S. AD 100gm

Povidon iodine 10 % oniment

13 I Antifungal preparations

Chlorphenesin powder 1%

Chlorquinaldol 5% oint

Clioquinol 3% cream (by prescription only)

Clotrimazole 1% cream

Clotrimazole 1% solution

Clotrimazole 1% (10mg/ ml) spray

Econazole nitrate 1% cream
Econazole nitrate 1% solution
Econazole nitrate 1% lotion
Econazole nitrate 1% spray
Econazole nitrate 1% powder
Econazole base 1% foaming solution
Ketoconazole 2% shampoo
Ketoconazole 2% cream
Miconazole nitrate 2% cream
Miconazole nitrate 2% lotion
Nystatin 100000 units/g oint
Nystatin 100000 units/g cream
Salicylic acid 3%+benzoic acid 6% oint
Sertaconazol 2% cream
Folnaftate 1% solution
Ferbinafine Hcl 1% cream
Ferbinafine Hcl 1% Topical spray
Zinc undecenoate 8%+zinc naphthenate (10% zinc) 8%+mesulphen 8% + methyl salicylate 2.5%+ terpineol 2.5% +chlorocresol 0.1% oint

GASTROINTESTINAL & INTRA-ABDOMINAL INFECTIONS

Condition	Likely Causative Organism	Drug(s)	Dose	Duration	Comments and clinical considerations
te nteritis	Viral, Entero- toxigenic & Entero- pathogenic E. coli	None			Rehydration (oral / IV) essential
Acute Gastroenteritis	to exclude Antibiotic Initiate tre systemical Notify susp	E coli therapy is not ind atment, on advice	licated unlesses of microbic	ss systemica logist, if the	
ebic tery	E. histolytica	Metronidazole	500mg oral 8 hourly	7-10 days	Add diloxanide furoate 500 mg three times daily for 10 days
Amoebic		OR Tinidazole	2gm oral once daily	3 days	
<u></u>	nellosis	Ciprofloxacin	15mg/kg orally 12 hourly	3 days	For Campylobacter the drug of choice is azithromycin
Bacterial dysentery	Shigella sp., Campylobacter, Non- typhoidal salmonellosis	OR Ceftriaxone	50-100mg /kg IM once daily	2-5 days	
cterial		OR Cefixime	10-15mg /kg/day	5 days	
Ba	Non-ty	OR Azithromycin	6-20mg /kg once daily	1-5 days	

	Shiga toxin producing E. coli	Antibiotic Treati recommended	ment not		Antibiotic use associated with development of hemolytic uremic syndrome.
ıs tis)		Ceftriaxone	2gm IV once daily	7-10 days	Surgical or endoscopic
Biliary tract infections (cholangitis, cholecystitis	Enterobacteriaceae (E.coli, Klebsiella sp.)	OR Piperacillin- Tazobactam	4.5gm IV 8 hourly	7-10 days	intervention to be considered if there is biliary obstruction. De-escalate therapy
is, (bac	Second line			once antibiotic
iary tı langit	ntero coli,	Imipenem	500mg IV 6 hourly	7-10 days	susceptibility is known
Ch Bi	ш ш	OR Meropenem	1gm IV 8 hourly	7-10 days	
	V.cholerae	Doxycycline	300mg oral	Single dose	Rehydration (oral/IV) is essential. Antibiotics are adjunctive therapy.
		OR Azithromycin	1gm	Single dose	
		OR Ciprofloxacin	500mg 12 hourly	3 days	
Cholera		In children Erythromycin	12.5 mg/kg 6 hourly	3 days	
		OR Azithromycin	20mg/kg (not to exceed 1gm)	Single dose	
		In pregnancy Azithromycin	1gm daily	Single dose	
rt tis	t ive	Co-amoxiclav	625mg 8hrly	7 days	
Diverticulitis Mild- OPD treatment	Gram-Negative Bacteria Anaerobes	OR Ciprofloxacin	750mg 12 hourly	7 days	
Dive	Grar	+ Metronidazole	500mg 8 hourly		

erate	acteria	Ceftriaxone	2gm IV once daily		Duration based on improvement
Diverticulitis moderate	Negative Ba Anaerobes	+ metronidazole	500 mg IV 8 hourly		
Divertica	Gram- Negative Bacteria Anaerobes	OR Piperacillin- Tazobactam	4.5 gm IV 8 hourly empirical ly		
erticul itis evere	Gram- Negative	Meropenem	1gm IV 8 hourly		Duration based on improvement
Diverticul itis Severe	Bacteria Anaerobes	OR Imipenem Cilastatin	500mg IV 6 hourly		
	S.Typhi, S.Paratyphi	Ciprofloxacin	15mg/kg /d	5-7 days	Ceftriaxone to be changed to oral
		OR Cefixime	20mg/kg /d	7-14 days	cefixime when patient is afebrile to finish total duration of 14 days
c feve		OR Azithromycin	8-10mg /kg/day	7 days	
Enteric fever		OR Ceftriaxone	75mg/kg /d	14 days	
		+/- Azithromycin	8-10mg /kg/day	7 days	
		OR Co- trimoxazole	960mg 12 hourly	14 days	
bacter		First line: Lansoprazole	30mg 12 hrly	7 days	
telicol		+Amoxicillin	1 g twice daily	7 days	
on of He		+ Clarithromycin	500mg 12 hourly	14 days	
Eradication of <i>Helicobacter</i> pylori		OR Metronidazole	500mg 12 hourly		
Era		Penicillin allergic			

		Lansoprazole	30 mg 12 hourly		
		+ Clarithromycin	500mg 12 hourly		
		+ Metronidazole	400mg 12 hourly		
		Treatment failure			
		Lansoprazole	30mg twice daily		
		+Bismuth salt	240mg twice daily		
		+two unused antibiotics:			
		Amoxicillin	1g twice daily		
		Metronidazole	400mg 8 hourly		
		Tetracycline	500mg 6 hourly		
Food poisoning	S. aureus, B. cereus, C. botulinum	None			Rehydration (oral/IV) essential
Giardiasi s	Giardia Iamblia	Metronidazole	250- 500mg 8 hourly	7-10 days	
G		Tinidazole	2gm oral	single dose	
ed ea	cile	Metronidazole	500mg oral 8 hourly	10-14 days	
Hospital acquired diarrhea	C. difficile	Severe disease: start Vancomycin	125mg oral 6 hourly	10-14 days	

Liver Abscess	Polymicr obial	Co-amoxiclav/ 3rd generation cephalosporin + Metronidazole	500mg IV. 8 hourly 800mg oral 8 hourly	2 weeks	Ultrasound guided drainage indicated in large abscesses, signs of imminent rupture and no response to medical treatment.
5		Piperacillin- Tazobactam IV	4.5 gm IV 8 hourly empirical ly		
		Cefotaxime	1-2gm 8 hourly		
Spontaneous bacterial Peritonitis	iaceae illa sp.)	OR Piperacillin- Tazobactam	4.5gm 8 hourly		
onit	cter	Second line			1
ontaneous bad Peritonitis	Enterobacteriaceae (E.coli, Klebsiella sp.)	Imipenem	500mg 6 hourly	5-7 days after	-
g.	Ē Ē	OR Meropenem	1gm 8 hourly	improve ment	
Pancreatitis Mild- moderate		No antibiotics			
Traveller's Diarrhoea		taken if illness d 3 days). Restrict	evelops. (Cip t to people t	orofloxacin S ravelling to	carried abroad and 500mg twice daily for remote areas and for diarrhoea could be

Oral Candida		Miconazole oral gel. Consider change of use to nystatin if patient taking a statin or warfarin. Antifungal agents absorbed from the gastrointestinal tract prevent oral candidiasis in patients receiving treatment for cancer.	5ml 6 hrly (retain gel in mouth near lesions). Dental prosthesis should be removed at night and brushed with gel.	Continue for 48hrs after lesions have healed. Review with a dental practitioner	Typically presents as white plaques on mucosal surfaces. They can be wiped off to reveal a raw erythematous base that may bleed. Should be distinguished from leukoplakia, a premalignant condition where that plaque cannot be wiped off. It is important to treat any pre-disposing factors: Diabetes mellitus Corticosteroids (inhaled/oral) Oral antibiotics should be reviewed Medication that causes a dry mouth Denture hygiene should be optimized
cyst;	. Sp.	Piperacillin- Tazobactam	4.5 gm IV 8 hourly empirically		Duration of treatment is based on source control
Post necrotizing pancreatitisinfected pseudocyst; pancreatic abscess	Entrobacteriaceae, Enterococci, S. aureus, S. epidermidis, anaerobes, Candida sp.	In very sick patients, if required, addition of cover for yeast fluconazole	IV 800 mg loading dose day 1, followed by 400 mg 2nd day onwards		and clinical improvement
ing pancre pancrea		for Enterococcus vancomycin /teicoplanin		7-10 days	
t necrotiz		Second line Imipenem- Cilastatin	500mg IV 6 hourly		
Posi	S. a	OR Meropenem	1gm IV 8 hourly		

	Piperacillin-	4.5gm	If	Source control is
8	Tazobactam	8 hourly	excellent	important to
	+	500mg IV	source	reduce bacterial
	Metronidazole	8 hourly	control – for 5-7	load.
	In very sick		days;	
	patients, if		otherwise	
	required,		2-3	
10	addition of		weeks	
pes	cover for		suggested	
2	yeast			
Jae	(fluconazole			
Enterobacteriaceae (E.coli, Klebsiella sp.), Bacteroides (colonic perforation), Anaerobes	IV 800 mg			
ae p.),	loading dose			
a s ati	day 1,			
iell	followed by			
Enterobacteriaceae (E.coli, Klebsiella sp.), (colonic perforation)	400 mg 2nd			
K K	day onwards),			
oli,	and for			
E.c (co	Enterococcus			
es ((vancomycin			
bio	/teicoplanin)			
ter	may be			
gac	contemplated			
	Second line	1g IV	1	
	Imipenem	8 hourly		
- 6	+	500mg IV	-	
	Metronidazole	8 hourly		
8	OR	1gm IV	1	
	Meropenem	8 hourly		
\$	+	500mg IV	1	
	Metronidazole	8 hourly		

	First line (> 6 months) (unlicensed under 2 years)			Treat all household contacts at the same time. Advise morning shower /
Threadworm	Mebendazole	100mg	Single dose and repeat after 2	baths, pants at night and hand hygiene for 2 weeks. PLUS wash
Ť.	Second line/ infants under 6 months		weeks	sleepwear, bed linen, dust and vacuum on day 1.
	hygiene for 6 weeks			First trimester of pregnancy – hygiene only

CENTRAL NERVOUS SYSTEM INFECTIONS

Condition	Likely Causative Organism	Drug(s)	Dose	Duration	Comments and clinical considerations
ngitis	enzae, tidis	Ceftriaxone	2 g IV 12hourly	10-14 days	Start antibiotics as soon as possibility of bacterial
Meni	1.influ ingitii	OR Cefotaxime	2 g IV 4-6hrly		meningitis is evident, within 30
Acute bacterial Meningitis	S. pneumoniae, H.influenzae, Neisseria meningititidis	Chloramph- enicol if patient is allergic to penicillin			minutes. Do not wait for other investigations. Adjust therapy according to investigations
еша	Streptococci, Bacteroides, Enterobacteriaceae, S.aureus	Ceftriaxone	2 gm IV 12hourly	of treatment to be decided by clinical & radiological response, minimum two months required.	Exclude TB, Nocardia, Aspergillus, Mucor. If abscess <2.5cm & patient neurologically stable, await response to antibiotics. Otherwise, consider aspiration /surgical drainage and modify antibiotics as per sensitivity of aspirated/ drained secretions May need intra ventricular therapy in severe cases
ral empy		OR Cefotaxime	2 gm IV 4- 6hourly		
npqns		+Metronidaz ole	1 gm IV 12hourly		
Brain abscess, Subdural empyema		Second line: Meropenem	2gm IV 8hourly		
Meningitis-Post- neurosurgery or Penetrating head trauma	s, Staph. aureus, Pseudomonus aeruginosa, Acinetobacter baumanii	Meropenem	2gm IV 8 hourly	14 days	
		+ Vancomyci n	15mg/kg IV 8 hourly		

Meningitis with basilar skull fractures	S.pneumoniae, H. influenzae	Ceftriaxone	2gm IV 12 hourly	14 days	+Dexamethasone 0.15mg/kg IV 6 hourly for 2-4days (1st dose with or before first antibiotic dose)
	2	<1 week Amoxicillin or ampicillin +Cefotaxime	50mg/kg 8 hourly 50mg/kg 8 hourly	10-14 days	All doses should be IV wherever possible. • Dexamethasone 0.15 mg/kg IV 6
		OR gentamicin	2.5mg/kg 12 hourly		hourly given 10 to 20 minutes before the first
disease	S. pneumonia	Age: 1-4 weeks Ampicillin +Cefotaxime	50mg/kg 6 hourly 50mg/kg 6-8	10-14 days	dose of antimicrobial therapy and continue for 4 days for
Suspected meningococcal disease		OR gentamicin OR tobramycin	2.5mg/kg 8 hourly		pneumococcal meningitis (discontinue for all other microorganisms)
pected		OR amikacin	10mg/kg 8 hourly		Transfer all patients to hospital immediately. IF time before admission, and non blanching rash,
Susp		1month – 18 years Cefotaxime	75mg/kg 6-8 hourly	10-14 days	
		OR ceftriaxone	50mg/kg 12 hourly		administer Penicillin G (or
		+ Vancomycin	10-15mg /kg 6hourly		cefotaxime) prior to admission, unless allergic.
		OR Rifampicin	10mg/kg 12 hourly		Ideally IV but IM if a vein not found.

	>18 years Cefotaxime	2gm 4-6 hourly	10-14 days	Obtain lumbar puncture and blood cultures prior to
	OR ceftriaxone	2gm 12 hrly		starting therapyNarrow therapy
	+ Vancomycin	10- 20mg/kg 8- 12hourly		based on CSF culture results • Repeat lumbar puncture if no
	OR Rifampicin	300mg 12 hourly		improvement in 48 hours and consider
N. meningitidis	Amoxicillin OR ampicillin OR cefotaxime OR ceftriaxone (same as above)		7 days	viral panel
H. influenza	Amoxicillin OR ampicillin OR cefotaxime OR ceftriaxone (same as above) + meropenem		7-10 days	
S. aureus	Flucloxacillin OR vancomycin		14 days	

CARDIOVASCULAR INFECTIONS

Condition	Likely Causative Organism)	Drug(s)	Dose	Duration	Comments and clinical considerations
		Penicillin G	20MU IV divided doses, 4 hrly	4-6 weeks	If patient is stable, ideally wait blood cultures. Antibiotic choice
Infective Endocarditis: Native valve (awaiting cultures) Viridans Streptococci,		OR Ampicillin	2gm iv 4 hrly		according to sensitivity results.
		+ Gentamicin	1mg/kg IM or IV 8 hrly		
	Viridans Streptococci, other Streptococci, Enterococci	Vancomycin	15mg/kg IV 12 hourly (max. 1g 12 hrly)	4-6 weeks	
		OR Teicoplanin	12mg/kg IV 12 hourly x 3 doses followed by 6 -12 mg once daily IV depending on severity		
		+ Gentamicin	1mg/kg IM or IV 8 hourly		
		OR Daptomycin	6mg/kg IV once a day		

In Severe Sepsis	S.aureus (MSSA or MRSA) Risk for gram-negative bacilli	OR teicoplanin	25-30 mg/kg loading followed by 15-20 mg/kg IV 12 hrly (max. 1gm 12 hrly) 12mg/kg IV 12 hourly x 3 doses followed by 6-12 mg once daily IV dependin g upon severity		Modify antibiotics based on culture results.
nfect	for §	+ Marananam	1gm IV 8 hrly		
_	S.ć Risk	Meropenem Daptomycin	6mg/kg IV once a day		
		+ Meropenem	1gm IV 8 hrly		

Infective Endocarditis: Prosthetic Valve awaiting Cultures	Vancomycin	15mg/kg IV 12 hrly (max. 1gm 12 hrly)	4-6 weeks	Antibiotic choice according to sensitivity.
	OR Teicoplanin	12mg/kg IV 12 hrly x 3 doses followed by 6 -12 mg once daily IV dependin g upon severity		
	+ Gentamicin	1mg/kg 12 hourly IV		

RESPIRATORY TRACT INFECTIONS

Condition	Likely Causative Organism	Drug(s)	Dose	Duration	Comments and clinical considerations
Acute bronchitis	Viral	Antibiotics not required			
		Amoxicillin	500mg 8 hrly	5 days	Antibiotic little benefit if no co-
Acute cough, Bronchitis		If penicillin allergic Adult & child over 12 years: Doxycycline	200mg starting dose then 100mg once daily		morbidity Consider immediate antibiotics if > 80 years and ONE of: hospitalisation in last year oral steroids diabetic CCF > 65 years with 2 of
		CHILD: Clarithromycin			above
Community acquired Pneumonia	se, Legionella, S.aureus	Mild to moderate cases Amoxycillin	500mg- 1g 8 hrly oral.	5-8 days	If MRSA is a concern, add Linezolid 600mg IV/Oral two times daily If atypical
	umoniae, H.influenzae, Legiol E.coli, Klebsiella sp., S.aureus	OR co- amoxiclav	If IV indicated 1.2 g IV 8 hrly		pneumonia suspected, Doxycycline 100mg two times daily
	S.pneumoniae, H.influenzae, Legionella E.coli, Klebsiella sp., S.aureus	OR Ceftriaxone	2g IV once daily		or Azithromycin 500 mg oral/IV once daily

		If allergic to penicillin: Doxycycline	100mg 12 hourly		
		For Severe cases Co- amoxiclav	1.2 g IV 8 hrly OR 2g IV once daily		
		Piperacillin- Tazobactam OR	4.5gm IV 6 hourly 1g IV 6		
F	ation of COPD	Imipenem	hourly		<u> </u>
plim	H.influenzae, -S.pneumoniae G.M.catarrhalis, -Chlamydia, - Chlamydia, - Chiruses	First line: Doxycycline OR Cefuroxime Second line/ penicillin allergic Azithromycin	100 mg 12 hrly 500 mg 12 hrly	3 days	Consider whether antibiotics are needed. 30% is viral, 30-50% is bacterial Consider a sputum sample in non-responders
	- 11 / 25		oral once daily		responders
	-Mild plus presence of	First line: Co- amoxiclav	1gm oral 12 hourly	7 days	
moderate	resistant organisms (β- lactamase producing, penicillin resistant S.	Second line/ penicillin allergic Doxycycline	200mg first dose then 100mg once daily	5 days	

	pneumoni ae) - Enterobact eriace (K. pneumoni ae, E. coli, Proteus, Enterobact er, etc)	OR Azithromycin	500 mg oral once daily	3 days	
	Moderate plus <u>no</u> risk factors	Ceftriaxone	1 gram IV every 24 hours		
	for Pseudomo nas aeruginosa	Severe β- lactam allergy Levofloxacin	750 mg oral or IV every 24 hours		
	Moderate plus risk factors for Pseudomo nas aeruginosa	First line Cefepime	1 gram IV 6 hourly		
severe		Second line Piperacillin- tazobactam	4.5 grams IV 8 hourly		
		Severe β- lactam allergy Aztreonam	2 grams IV 8 hourly		
		+ levofloxacin	750 mg oral or IV every 24 hours		
i.			hours		

Lung abscess, Empyema	S.pneumo niae, E.coli, Klebsiella sp., Pseudomo nas aeruginosa , S.aureus, anaerobes	Piperacillin- Tazobactam + Clindamycin	4.5gm IV 6 hourly 600- 900mg IV 8 hourly	3-4 weeks	
Ludwig's angina Vincent's angina	Polymicrobial (Cover oral anaerobes)	Clindamycin	600 mg IV 8 hourly		Duration based on improvement
wig's a		OR Co- amoxiclav	1.2gm IV		
Vinc		Piperacillin- Tazobactam	4.5gm IV 6 hourly		

URINARY TRACT INFECTIONS

- a- No need for treating asymptomatic bacteriuria except in pregnant women and immunocompromised patients.
- b- Amoxicillin resistance is common therefore only use if culture confirms susceptibility
- c- In the presence of a catheter only treat if systemically unwell or evidence of pyelonephritis. Do not use prophylactic antibiotics for catheter changes unless history of catheter-change-associated UTI or trauma

Condition	Likely Causative Organism	Drug(s)	Dose	Duration	Comments and clinical considerations
ated	cus cually in), iiae	Nitrofurantoin	100 mg 12 hrly	7 days	Get urine cultures before antibiotics;
itis	nylococc is (in ser g wome	OR Cotrimoxazole	960mg 12 hrly	3-5 days	then modify therapy
Acute uncomplicated Cystitis	E.coli, Staphylococcus saphrophyticus (in sexually active young women), Klebsiella pneumoniae	OR Ciprofloxacin	500 mg 12 hrly		accordingly.
Acute	E.cc saphre acti Kleb	OR Cefuroxime	250 mg 12 hrly		
Acute uncomplicated Pyelonephritis	E.coli, Staphylococcus saphrophyticus (in sexually active young women), Klebsiella pneumoniae, Proteus mirabilis	Amikacin	1 g once daily IM/IV	14 days	Get urine cultures before antibiotics; then modify therapy accordingly. Monitor renal function if aminoglycoside is used
		OR Gentamicin	7 mg /kg/d once daily		
		Piperacillin- Tazobactam	4.5g IV 6 hourly		
Genital herpes		First line Aciclovir	200mg 5 times daily	5 days	Higher doses in: - severe infection - immunocompromised
		OR Aciclovir	400mg 8 hourly	5 days	 Longer courses if: new lesions appea healing is incomplete

ass cus		Piperacillin- Tazobactam	4.5gm IV	10-14	Get urine cultures before antibiotics; then
ated hritis Proteus	Proteus udomon terococ multi-dr	OR Amikacin	6 hourly 1 g once daily IV	days	modify therapy accordingly. Used narrow spectrum
Complicated Pyelonephritis	pneumonia, Proteus mirabilis, Pseudomonas aeruginosa, Enterococcus sp. Frequently multi-drug resistant organisms are	Imipenem	1g IV 8 hrly		agent based on sensitivities. Monitor
0 €	pne mirak aerug sp. Fre resist	OR Meropenem	1gm IV 8 hrly		renal function if aminoglycoside is used.
	Enterobact eriaceae	Doxycline	100 mg 12 hrly	3-4 weeks.	Anti-microbial therapy need
792	(E.coli, Klebsiella	OR Co- trimoxazole	960 mg 12 hrly	550-34004	adjusted according to microbiology.
	sp.)	In severe cases, Piperacillin- Tazobactam	4.5gm IV 6 hourly		to microsiology.
		OR Ciprofloxacin	500mg 12 hrly		
		OR Imipenem	1g IV 8 hourly		
		OR Meropenem	1gm IV 8 hourly		
		Gonococcal: Ceftriaxone	500mg IM	14 days	
		OR Cefixime	400mg once daily		
S		+ Doxycycline	100mg 12 hrly		
Epididymo-orchitis		Chlamydial: Doxycycline	100mg 12 hrly	14 days	
		Gram negative: 1st line (if sensitive) Trimethoprim	200mg 12 hrly	longer)	
		2nd line / culture negative : Ciprofloxacin	500mg 12 hrly	14 days or longer	

Genital warts	Treatments include: Podophyllot oxin solution or cream	Twice daily for 3 days (then 4 day break) Three times a week, at night.	Repeat weekly until lesions resolve. (max of 4 weeks) Until lesions resolve (max 16 weeks)	Treatment depends on site, character and area involved. Cryotherapy is first line treatment for some cases. Avoid in pregnancy / breast feeding.
Pelvic Inflammatory Disease	First line Ceftriaxone	500mg IM	Single dose	These regimens are not for use in pregnancy.
tory D	+ Metronidazole	500 mg 12 hrly	14 days	
ашша	+ Doxycycline	100 mg 12 hrly	14 days	
ic Infl	Second line Ofloxacin	400mg 12 hrly	14 days	
Pelv	+ Metronidazole	500mg 12 hrly	14 days	
JTIs / year	First line Nitrofurantoin	100mg once daily or 50mg 12 hrly	3-6 months then review recurren	Educate patient on hygiene, lifestyle, diet measures likely to reduce risk of recurrence
Recurrent UTI in women ≥ 3 UTIs / year	Second line Trimethoprim	200mg once daily	ce rate	
	Alternative reg			oded except on

	Trimethoprim	200 mg 12 hrly	Women: 3 days	(If GFR < 45ml/min/1.73m ²
Uncomplicated UTI	<u>OR</u> Nitrofurantoin	100mg 12 hrly OR 50mg 6 hrly	Men: 7 days	use trimethoprim OR one of the 2nd line options) Perform cultures in
	Second line Amoxicillin (Only use if isolate known to be sensitive)	500mg 8 hourly		all treatment failures OR when risk of resistance is considered high
UTI and asymptomatic bacteruria in pregnancy	First Line 1st /2nd trimester: Nitrofurantoin (avoid if GFR < 45ml/min/1.7 3m²)	100mg 12 hrly OR 50mg 6 hourly	recom avoidi (due t	Nitrofurantoin: recommend avoiding at term (due to fetal haemolysis)
symptomatic pregnancy	3rd trimester: Trimethoprim	200mg 12 hourly		
TI and as	Second line Amoxicillin (if sensitive)	500mg 8 hourly		
ם	OR Cefalexin	500mg 8 hourly		
UTI in Children	First line Trimethoprim	See BNFC for dosage	3 days	
	OR Nitrofurantoin			
	Second line Amoxicillin (if sensitive)			
	OR Cefalexin	500mg 6 hourly	7-10 days	

omatis	First line Azithromycin	1 g Single dose	7 days
ydia trach	Second line	100mg	
vomen	Doxycycline	12 hrly	
Uncomplicated Chlamydia trachomatis in men and women	Pregnancy or breastfeeding First line Azithromycin	1 g Single dose	14 days
lucoun	Second line	500mg	
Oucoun	Erythromycin	6 hrly	

OBSTETRICS AND GYNAECOLOGICAL INFECTIONS

- a- Fluoroquinolones and co-trimoxazole are contraindicated in 1st trimester.
- b- Doxycycline is not recommended in nursing mothers. If need to administer doxycycline discontinue nursing.

Condition	Likely Causative Organism)	Drug(s)	Dose	Duration	Comments and clinical considerations
eriuria		Nitrofurantoin	100 mg Oral 12 hrly	7 days	Choose according to microbiology results. Can cause
Asymptomatic Bacteriuria		OR Amoxicillin	500 mg Oral 8 hrly	7-10 days	pylonephritis in up to 25% of pregnant women.
ptoma		OR cephalosporins		7-10 days	30% Chance of
Asym		OR Co- trimoxazole	960mg 12 hrly	7-10 days	empirical therapy.
		<18 weeks gestation at diagnosis Spiramycin	1 gm Oral 6 hourly	until 16- 18 weeks	
egnancy		Pyrimathamine + sulphadizine	Alternate every two weeks		
Acute Toxoplasmosis in pregnancy		>18 weeks gestation and documented fetal infection by positive amniotic fluid PCR. Pyremethamine	50 mg Oral 12 hrly x 2 days then 50 mg once daily		
		+Sulphadiazine	75 mg/kg Oral x 1 dose then 50mg/kg twice daily		

		+ Folinic Acid	10-20 mg Oral daily	Min. of 4weeks or for duration of pregnancy	
s		First line: Metronidazole	500mg Oral 12 hrly	7 days	Topical treatment gives similar cure rates but is more
inosi	bial	OR Tinidazole	2 g oral 12 hrly	3 days	expensive. Metronidazole
Bacterial vaginosis	Polymicrobial	Second Line Metronidazole 0.75% vag gel	5 g applicator full once daily	5 nights	vaginal gel is not recommended during menstruation.
		OR Clindamycin 2% cream		7 nights	Treat the partner
	Candida species	Fluconazole	150 mg single oral dose		Non-pregnant- If recurrent candidiasis, (4 or more
Candidiasis		For milder cases- Intravaginal agents as creams or suppositories clotrimazole, miconazole, nystatin.	single dose to 7-14 days		episodes/year) 6 months suppressive treatment with fluconazole 150 mg oral once a week or clotrimazole vaginal suppositories 500 mg once a week.
Group B streptococcal Disease, Prophylaxis and Treatment	Group B Streptococci	Penicillin G	5 MU Loading dose then 2.5 -3 MU IV 6 hrly	until delivery	Prevalance very low so the prophylaxis may be required only on culture documented report
		OR Ampicillin	2 gm IV Loading then 1gm 6 hrly	until delivery	Associated with high risk of pre-term labour,still birth, neonatal sepsis

		Clindamycin OR vancomycin OR teicoplanin in penicillin	2 gm IV Loading then 1gm 8 hrly 900 mg IV 8 hrly IV		
Chorioamnionitis	Group B streptococcus, Gram -ve bacilli, chlamydiae, ureaplasma and anaerobes, usually Polymicrobial	allergy Clindamycin OR vancomycin OR teicoplanin			If patient is not in sepsis then IV Ampicillin
/Urethritis Mucopurulent gonoccocal	Polymicrobial	+ Azithromycin OR Doxycycline	250 mg IM 1 gm	Single dose single dose 7 day	
Influenza in pregnancy (seasonal And H1N1)		Oseltamivir	75 mg Oral 12 hrly	5 days	The best preventive strategy is administration of single dose of killed vaccine. Treatment should begin within 48 hrs of onset of symptoms.

ř			T = 0.0	î î	
	S. aureus	Co-	500 mg		
		amoxiclav	6 hourly		
		Or			
		Cephalexin			
		OR	2 g once	7	
8		Ceftriaxone	daily		
Š		OR MRSA- I	1,	1	
Mastitis without abscess		sensitivities			
=		+	300 mg	1	
2		Clindamycin	6 hourly		
ž į		OR	I gm IV	-	
tis		Vancomycin	12 hrly		
sti		OR	12mg/kg	†	
S S		teicoplanin	IV 12hrly		
		teicopiaiiiii	x 3 doses		
			then		
			6mg		
			once		
4			daily IV		
				over for MRSA	
		Clindamycin	300mg 6		
			hrly	4	
		OR	15mg/kg		
		Vancomycin	IV 12		
SS			hourly		
8			max. 1g		
Mastitis with abscess			12 hrly		
£		OR	12mg/kg		
3		teicoplanin	IV 12hrly		
Itis		19	x 3 doses		
ast			then		
Σ			6mg		
			once		
			daily IV		
			ually IV		
Ġ.		į.			

Obstetric Sepsis during pregnancy	Group A beta-haemolytic Streptococcus, E.coli, anaerobes	If patient has only fever, with no features of severe sepsis start co- amoxiclav OR Ceftriaxone	625mg oral 8 hourly or IV 1.2 gm 8 hourly		If patient is in shock, start Piperacillin-Tazobactam till the blood sensitivity report is available and change accordingly. If admission needed, MRSA cover with (Vancomycin/
ric Se	E.c.		daily		Teicoplanin) may be
stet	Abo	+ Metronidazole	500mg IV 8 hrly		required if suspected or
9	Group	+/-gentamicin	7mg/kg/ d once daily		colonized.
Obstetric Sepsis following pregnancy	S. pyogenes, E. coli, S. aureus S. pneumoniae, Meticillin-resistant S. aureus (MRSA), C. septicum & Morganella morganii	Same as above			
Pelvic Inflammatory Disease (Salpingitis & tubo-ovarian abscess)	S. aureus, Enterobact eriacae,	Out patient treatment	Drainage of tubo-ovarian abscess wherever indicated. Evaluate and treat sex partner		
	gonococci, gardenella	Ceftriaxone	250 mg IM/IV	single dose	-
vic Inf ease (S o-ovar		+/- Metronidazole	500 mg 12 hrly	14 days	
Pel Dise tubo		+ Doxycycline	100 mg 12 hrly	14 days	

		Inpatient Treatment	18	
		Clindamycin +ceftriaxone then change to outpatient treatment		
<u> </u>	np A	Ampicillin	500 mg 6 hourly	 If patient has not taken any prior
itis an 3, Grou ae, C. gens	B, Gro ae, C. gens	+ Metronidazole	500mg IV 8 hrly	antibiotic (start antibiotic after
Septic abortion and Endomyometritis and Septic Pelvic Vein Phlebitis	Septic abortion and Endomyometritis and Septic Pelvic Vein Phlebitis Septic Pelvic Vein Phlebitis Bacteroides, Prevotella bivius, Group B, Group A Streptococcus, Enterobactereaceae, C. trachomatis, Clostridium perfringens	Ceftriaxone	2g IV once daily	sending cultures) - If patient has been partially treated with antibiotics, send blood cultures and start Piperacillin- Tazobactam or Cefoperazone- sulbactam till the sensitivity report is available.

Tuberculosis in pregnancy	Similar to NON PREGNANT population with some exceptions				Small chance of transmission of infection to fetus. WHO: All first line drugs, except streptomycin, are safe in pregnancy. Pyrazinamide not recommended by US FDA. Mother and baby should continue to breastfeed. B6 supplement recommended for all pregnant or breastfeeding women taking INH as well as to neonate who are being breast fed by mothers taking INH.
		Metronidazole	2 gm	single dose 7 days	Treat sexual partner with metronidazole 2gm
	<u>.s</u>		mg Oral 12 hrly		single dose
asis	aginal	OR Tinidazole	2 gm Oral	single dose	Avoid 2g single dose of
Trichimoniasis	Trichomonas vaginalis	In failure, retreat with Metronidazole	500 mg Oral 12 hourly	7 Days	metronidazole in pregnancy or breast feeding
Ė	Tricho	if 2nd failure Metronidazole	2 gm Oral once daily	3-5 days	
		Clotrimazole	100 mg vag. Suppos once daily	6 days	

		First line Clotrimazole vag suppositories	500mg	Single dose	Topical and oral azoles give 75% cure. If extensive, or unresponsive to
asis		Second line Fluconazole (oral)	150mg	Single dose	first line treatment consider oral therapy.
Vaginal candidiasis		Pregnancy (if symptomatic) Clotrimazole vag. suppository	100mg once daily	6 nights	Add clotrimazole cream, 2-3 times daily for symptomatic relief. In pregnancy avoid fluconazole.
		OR Miconazole 2% cream	5g Intravagi nally twice daily	7 days	
VIRAL	(NO ANTIBIO	OTICS TO BE GIV	EN)		

BONES AND JOINT INFECTIONS

Condition	Likely Causative Organism	Drug(s)	Dose	Duration	Comments and clinical considerations
	genes	Ceftriaxone	2g IV once daily	4-6 weeks from	Treat based on blood/synovial fluid/bone biopsy
Acute osteomyelitis OR Septic arthritis	S.aureus, Streptococcus pyogenes Enterobacteriaceae	Followed by Flucloxacillin	500mg 8 hrly orally	initiation or last major debride	culture. Surgical debridement is essential.
Aci teomy eptic o	strepto erobac	OR Cephalexin	500mg 6hourly	ment	
S. S. S. S. Ente	Piperacillin- tazobactam +Clindamycin	4.5gm IV 6hourly 600- 900mg IV 8 hrly	-		
Chronic osteomyelitis OR Chronic synovitis		No empiric therapy. Choose antibiotic based on sensitivity.		Total duration of treatment depends on the joint and the organism	Definitive treatment guided by bone/synovial biopsy culture. Treat for 6 weeks minimum Investigate for TB Nocardia, fungi.
	Methicillin sensitive staph. aureus	Cefazolin	1-1.5gm 6 hrly	IV for 2 weeks	Extensive surgical debridement.
	(MSSA)	+ gentamicin	5mg/kg every 24 hours		

	Then if patient improvement treatment star	by IV	Oral For 4 weeks	
	Clindamycin	300-450 mg 6 hrly		
	OR ciprofloxacin	750mg 12 hrly		
	OR co- trimoxazole	960mg 12 hrly		
	+ Rifampicin	300mg 12hrly		
	Then clindamycin OR ciprofloxacin OR co-trimoxazole	As above	Oral For 6 weeks	
Methicillin resistant	Vancomycin	1gm 12 hourly	IV for 2 weeks	
staph. aureus	OR teicoplanin	400mg 12 hrly		
(MRSA)	+ gentamicin	5mg/kg 24hrly		
	Then if patient shows improvement by IV treatment start:		Oral For 4 weeks	
	Clindamycin OR co- trimoxazole + Rifampicin	As above		
	Then Clindamycin OR co- trimoxazole	As above	Oral For 6 weeks	

Coagulase-negative Staphylococcus, Staphylococcus epidermidis (most	Vancomycin	1gm 12 hrly	IV for 2 weeks
	+Gentamicin	5mg/kg every 24hours	
Sta Sta Sta	OR	600mg	
0	clindamycin	6 hourly	
	Amoxicillin Or Ampicillin	2g 4-6 hourly	IV for 2 weeks
p or cium	+ Gentamicin	5mg/kg 24hourly	
Streptococcus spp or Enterococcus Faecium	Then if patien improvement treatment sta	by IV	Oral for 4 weeks
reptoc	Amoxicillin	2g 4-6 hrly	
S. Er	Then Amoxicillin OR Co- Amoxiclay		Oral for 6 weeks
bilis)	Ceftriaxone	2gm 24hourly	IV for 2 weeks
s mira ation	+ amikacin	15mg/kg 24hourly	
Enterobactiriaceae , klebsiella spp. Proteus mir (sensitive to 3rd generation cephalosporins)	Then Ciprofloxacin	750mg 12 hrly	Oral for 10 weeks
spl spl to 3	OR Co-	960mg	
ella ve t	trimoxazole	12 hrly	
Enterobactiriaceae (e.coli, klebsiella spp. Proteus mirabilis) {sensitive to 3rd generation cephalosporins)	<u>OR</u> Ceftriaxone	1-2gm 24 hrly	IV for 10 weeks

p. not stion	Imipenem	500mg 6hourly	For 2 weeks
tiriaceae siella spp abilis) (no d genera sporins)	+ amikacin	15mg/kg 24hourly	334-739-875-784-855-5
Enterobactriaceae (e.coli, klebsiella spp. Proteus mirabilis) {not sensitive to 3rd generation cephalosporins)	Then Imipenem	500mg 6hourly	For 4 weeks
Enterobact iriaceae	Cefazolin	2gm 8hourly	For 2 weeks
(others)	+ amikacin	15mg/kg 24hrly	3552430545
	Then if patien improvement treatment sta	by IV	
	Ciprofloxacin	750mg 12 hrly	Oral for 10 weeks
	OR Co- trimoxazole	960mg 12 hrly	
	ceftazidime	2gm 8hourly	IV for 2 weeks
	OR Imipenem	500mg 6 hrly	
nosa	+ amikacin	15mg/kg 24hourly	
Pseudomonous aureginosa	Then if patien improvement treatment sta	by IV	IV for 4 weeks
monor	ceftazidime	2gm 8hourly	
seudo	OR Imipenem	500mg 6 hourly	
Δ.	+ ciprofloxacin	750mg 12 hrly	Oral for 4 weeks
	then ciprofloxacin	750mg 12 hrly	Oral for 6 weeks

		Piperacillin-	3.375gm	IV for 2	
		tazobactam	6hourly	weeks	
		OR Imipenem	500mg 6hourly		
		+ amikacin	15mg/kg 24 hrly		
		Then if patient	the state of the s		
	omanii	improvement treatment star	by IV		
	cterbo	Piperacillin- tazobactam	3.375gm 6hourly	IV for 4 weeks	
	Acinetobacter bomanii	OR Imipenem	500mg 6hourly		
	Acin	+ ciprofloxacin	750mg 12 hrly	Oral for 4 weeks	
		Then Piperacillin- tazobactam	3.375gm 6 hrly	IV for 6 weeks	
		OR Imipenem	500mg 6 hrly		
		OR ciprofloxacin	750mg 12 hrly	Oral for 6 weeks	
ion	ococci, ptococci	Ceftriaxone.	2g IV once daily		
ıt infect	staphyl eus, Stre li, Enterd bes	+Vancomycin	1gm IV 12 hrly		
Prosthetic joint infection	Coagulase negative staphylococci, Staphylococcus aureus, Streptococci Gram-negative bacilli, Enterococcus, Anaerobes	OR Teicoplanin	800mg x 3 doses		
Prosth	phyloco m-nega		then 400mg		
	Sta Gra		Once daily		

EAR, NOSE, and THROAT INFECTIONS

Likely Causative Organism	Drug(s)	Dose	Duration	Comments and clinical considerations
moniae reus ienzae ginosa	Cefotaxime	1-2 gm IV 4-8 hourly		Modify as per culture Unusual causes- Nocardia,
S.pneu S.au H.infiu P.aeru	Ceftriaxone	2 gm IV once daily		TB, Actinomyces.
-e	Piperacillin-	4.5g IV		
obi	tazobactam	8hrly		
Polymicr	Meropenem	1 gm IV 8hrly		
Viral	None required			
sn	Penicillin V	500mg oral 12 hourly	10 days	
, Infectio	OR Amoxicillin	500mg oral 8 hourly		
tococcus, ucleosis,	OR Benzathine Penicillin	1.2 MU IM	Single dose	
Group A, C, G Strept mononu	OR Cefdinir	300mg oral 12 hourly	5 days	
	OR cefpodoxime	200mg oral 12 hourly		
	Cansative Organism S. aureus S. H. influenzae P. aeruginosa	Causative Organism Piperacillin- tazobactam Meropenem Viral None required Penicillin V	Causative Organism Pericillin V Cefotaxime 1-2 gm IV 4-8 hourly Ceftriaxone 2 gm IV once daily Piperacillin- tazobactam Meropenem 1 gm IV 8hrly Penicillin V Soomg oral	Cefotaxime Piperacillin- tazobactam None required Penicillin V Penicillin V Soung Sound Sou

		Penicillin allergic, Clindamycin	300-450 mg oral 6- 8 hrly	5 days	
		OR Azithromycin	500 mg oral once daily		
nsillitis yngitis		Erythromycin	500 mg IV 6 hourly		Diptheria antitoxin: Horse serum. <48 hrs:20,000-
Acute Pharyngitis/tonsillitis Membranous pharyngitis C.diptheriae,	OR Penicillin G	50,000 u/kg IV 12 hourly		40,000 units, Nasopharyngeal membranes:40,000 -60,000 units >3 days & bull neck : 80,000-1,20,000 units	
	9	Cefotaxime	50 mg/kg IV 8 hrly		
	pneumonia	OR ceftriaxone	50 mg/kg IV 24 hrly		
.s		Levofloxacin	10 mg/kg IV 24 hrly		
Acute Pharyngitis/tonsillitis Epiglotitis (Supraglotis)	Children: H.influenzae , S.pyogenes, S.pneumoniae, S.aureus. Adult: Group A Streptococcus, H.influenzae	+ clindamycin	7.5 mg/kg IV 6 hrly.		

oat		First line Penicillin-V	500 mg 6 hrly Child: see BNFC	10 days	Avoid antibiotics as 90% resolve in 7 days
Acute sore throat		Second line / penicillin allergic Clarithromycin	Adults: 500mg 12 hourly	5 days	Use Fever PAIN Score: Score 0-1: NO antibiotic; 2-3: 3 day back-up antibiotic; 4 or more: immediate antibiotic
	Viral, S. pneumoniae, H.influenzae, M. catarrhalis	First line Amoxicillin	Adult: 500mg 8 hourly	7 days	Avoid antibiotics as 80% resolve in 14 days without
		CO- Amoxicilav	1gm oral 12 hourly	7 days	antibiotics. Only use for
Rhinosinusitis		Second line /penicllin allergic CHILD: Clarithromycin		7 days	persistent symptoms and purulent discharge lasting at least 7 days or if severe
Rhir		ADULT & CHILD over 12 years: Doxycycline	200 mg first day Then 100 mg once daily	7 days	symptoms, or high risk of serious complications (e.g. immunocompromi
		OR Moxifloxacin	400mg once daily	5-7days	ed, cystic fibrosis). Use adequate analgesia
Laryngitis (hoarseness)	Viral (90%)	No antibiotic indicated			

terna		First line (12 years and over) Acetic acid 2%.	1 spray 8 hourly	7 days	Use analgesia and topical preparations first line. Consider oral antibiotics if
Otitis externa		Second line (any age) gentamicin 0.3% ear drops	2-4 drops, 3-4 times daily, and at night	7-14 days	spreading cellulitis, extending outside of ear canal or systemically unwell
nt	osa	Piperacilin/ Tazobactam	4.5gm IV 6hourly	Do CT or MRI, If	Debridement usually required.
Malignant otitis externa	P. aeruginosa (in >90% cases	OR Imipenem /Meropenem Ciprofloxacin		bone involved, treat for	Rule out osteomyelitis.
	15,275	First line Amoxicillin	Adult: 500mg 8 hourly	4-6 wks. If age <2 years: 10 days If age >2 years : 5-7 days	Optimise analgesia Avoid antibiotics as 60% are better in
		OR Co- amoxiclav	90/6.4mg /kg/day 12 hrly		24 hours without: they only reduce
(Acute)		OR cefpodoxime/ cefuroxime axetil	250mg 12 hrly		pain at 2 days and do not prevent deafness
redia	enza,	OR Ceftriaxone	50mg/kg IM		If >2 years, afebrile and no ear pain-
Otitis media (Acute)	Secon line/y allerg CHILL Clarith ADUL Years Years Years	Second line/penicillin allergic CHILD: Clarithromycin			consider analgesics and defer antibiotics
		ADULT & CHILD over 12 years: Doxycycline	200 mg first day Then 100 mg once daily		

INFECTIONS IN BURN PATIENTS

Condition	Likely Causative Organism	Drug(s)	Dose	Duration	Comments and clinical considerations
For burns wound that is clinically or microbiologically not infected					Prophylactic parenteral antibiotics in burns are NOT indicated Topical antibiotics to be given after debridement
Prophylaxis in Plastic Surgery	Surgical pri		Cefuroxim	ne 1.5 g/ Cefa	azolin IV just before
For burns wound that are clinically or microbiologically infected infected Strep pyogenes, Enterobacter sp., S. aureus, S. epidermidis, Pseudomonas, fungi (rare)	S. aureus, ıgi (rare)	Burn wound sepsis (if there is suspicion for MRSA) Pipercillin- tazobactam			Antibiotic choices are dependent on the antibiogram of the individual institution. Surgical
	OR With or without: Vancomycin OR Teicoplanin			debridement as necessary. Amphotericin B is toxic to all burn patient as renal system	
	Strep pyogenes, Er S. epidermidis, Ps	When extensive burns and patient not responding to antibiotics, antifungal therapy			compromised, hence Caspofungin may be used.

Burn wound cellulitis	
Cefazolin	
OR Clindamycin	
OR Vancomycin	
If there is suspicion for MRSA With and without (burns involving the lower extremity or feet or burns in patients with diabetes)	
Pipercillin- tazobactam	
OR Imipenem OR Meropenem	
+/- Vancomycin / Teicoplanin	

SKIN / SOFT TISSUE INFECTIONS

Condition	Likely Causative Organism	Drug(s)	Dose	Duration	Comments and clinical considerations
		First line: co- amoxiclav	625mg 8 hourly	Review at 24 & 48hrs	Thorough irrigation is important. Assess tetanus,
Bites Animal bite Or Human bite		Penicillin allergic/adults: metronidazole	500mg 8 hourly	Treatme nt -7 days	rabies, HIV/hepatitis B & C risk Antibiotic prophylaxis for: puncture wounds, bite
Anir		+	100mg	days Prophyla	involving hand, face,
Bites Or H		doxycycline Penicillin allergic/ Children: clindamycin	12 hourly	Prophyla xis – 5 days	foot, joint, tendon or ligament, at risk patients e.g. diabetic, asplenic, immunosuppressed, cirrhotic, prosthetic valve or joint.
		First line Flucloxacillin	500 mg – 1g 6hourly	5-7 days 7 days. If slow	If patient afebrile and healthy, other than cellulitis,
		OR Ceftriaxone	2gm IV once daily	response	flucloxacillin may
ø	Streptococcus pyogenes (common), S.aureus	Second line /penicillin allergic: Clarithromycin	500mg 12 hourly	give for be u	be used as single drug treatment.
Cellulitis	ccus p	OR Clindamycin	600-900mg IV 8 hourly		
రి	ptoco	If Facial Co-amoxiclav	625mg 8 hourly		
	Stre (o	Diabetic foot: First line Flucloxacillin	500 mg – 1g 6 hourly		
		Second line /penicillin allergic: Doxycycline	100mg 12 hourly		

Conjunctivitis		1st line chloramphe nicol 0.5% drops +1% ointment 2nd line fusidic acid 1% gel	2 hrly for 2 days then reduce to 6 hrly+ at night 12 hourly	All for 48 hours after resolutio n	Bacterial, usually unilateral and yellow-white mucopurulent discharge. Most bacterial infections are self limiting
Eczema	healing unl	iotics or adding t ess there are visi atment indicated	ble signs of i	nfection.	na does not improve
sis	S.aureus	Co- amoxiclav	1.2gm IV 8 hourly or 625 mg oral 8 hrly	5-7 days	Get pus cultures before starting antibiotics
Furunculosis		OR Ceftriaxone	2gm IV once daily		
2.—	. 3	Clindamycin (in penicillin sensitive patients)	600- 900mg IV 8 hourly		
the proximal toenail		terbinafine	250 mg once daily	Fingers: 6–12 weeks Toes: 3– 6months	Caution in hepatic or renal impairment If patient develops signs of liver dysfunction stop treatment immediately
Fungal infection of the proximal fingernail or toenail		Itraconazole	200 mg twice daily	Give 7days Repeat monthly. Fingers: 2 Cycles Toes: 3 Cycles	

	Topical terbinafine	Twice daily	1-2 weeks	If intractable, use skin scrapings and if
skin	OR Topical Clotrimazole 1%	Apply 2-3 times/ day	4–6 weeks (i.e. 1-2 weeks after healing)	infection confirmed, use oral therapy. Advice patients about general hygiene to improve
n of the	OR Miconazole 2% cream	Apply twice daily	Max 1week	healing and reduce the risk of spread of infection.
Fungal infection of the skin	With significant inflammation Clotrimazole 1% + hydrocortisone 1% OR Miconazole 2% + hydrocortisone 1%	Apply twice daily	Max 1 week	
punom	First line Flucloxacillin	500mg – 1g 6hourly	5 days then review	For severe infections, MRSA skin/soft tissue
ling post-op	+ metronidazole if abdominal / pelvic wound	500mg 8hourly		infections or if patients not improving within 48-72 hours – refer
Infected wound, including post-op wound infections	Second line /penicillin allergic: Doyxcycline	200mg starting dose then 100mg once daily	7 days then review	to specialist team. For tetanus prone wound assess and treat/refer for
Infected	+ metronidazole if abdominal / pelvic wound)	500mg 8hourly		vaccine or immunoglobulin.

inor ski n s		For lesions suitable for topical use: Fusidic acid cream	Topically 3 times daily	5 days	As resistance is increasing topical antibacterials should be reserved for very localised
Impetigo & other minor infections		Systemic treatment First line Flucloxacillin	500mg 6hourly	7 days	skin infections For extensive, severe or bullous impetigo, use oral
Impetigo		Second line / penicillin allergic: Clarithromycin	500mg 12 hourly	7 days	antibiotics.
Leg ulcers	healing. Cult evidence of increased pa	ures / swabs are clinical infection	e only indica , e.g. inflam idates, rapid	ted if diabet mation or re deterioration	nd do not improve ic or there is edness / cellulitis, on of ulcer or pyrexia.
	Streptococ cus pyogenes,	Piperacillin- Tazobactam +	4.5gm IV 6hourly 600-	Duration depends on the	Early surgical intervention crucial
	S. aureus, anaerobes,	Clindamycin	900mg IV 8 hourly	progress	
	S. aureus, anaerobes, Enterobact eriaceae	Clindamycin		progress	
ecrotizing fasciitis	S. aureus, anaerobes, Enterobact	N. A. CONTACT AND THE PROPERTY.	8 hourly 1g IV	progress	
Necrotizing fasciitis	S. aureus, anaerobes, Enterobact eriaceae (polymicro	Imipenem OR	8 hourly 1g IV 8 hourly 1g IV	progress	

MRSA / MSSA Skin colonisation		Chlorhexidin e 4% Aqeous Solution	Wash DAILY including 2 hair washes	10 days	If patient not decolonised – seek specialist advice
MRSA active infection		doxycycline (>12yrs only)	100mg 12 hourly	7 days	MRSA confirmed with lab results
PVL	Panton-Vale	ntine Leukocidir	(PVL) is a to		ed by 4.9% of S.
producing - Staphylo coccus aureus	aureus. Can	rarely cause sev if recurrent boil:			n healthy people.

VIRAL INFECTIONS

Condition	Likely Causative Organism	Drug(s)	Dose	Duration	Comments and clinical considerations
Cold	Topical anti	esolve after 7-1 virals such as ac ation by 12-24 h	iclovir 5% cr		t. a day for 5 days
Herpes zoster/ Chicken pox		aciclovir If indicated	800 mg five times a day	7 days	Treat ONLY IF > 14 years or severe pain, dense oral rash, secondary household case, on steroids or smoker and IF can start within 24 hours of rash.
Varicella zoster/ Shingles		aciclovir If indicated	800 mg five times a day	7 days	Treat ONLY IF over 50 years and within 72 hours of rash; or if active ophthalmic or Ramsey Hunt or eczema.

DENTAL INFECTIONS

Condition	Likely Causative Organism	Drug(s)	Dose	Duration	Comments and clinical considerations
tising e s	8	Metronidazole	500 mg 8hourly	3 days Until oral	Commence metronidazole and
Acute necrotising ulcerative gingivitis		+ Chlorhexidine OR hydrogen peroxide ourses of antibiot		hygiene possible	refer for scaling and advice.
	symptoms - Severe odo	are recommended or high risk of com ntogenic infectior	nplications. ns; defined as	cellulitis plus	e infection, systemic signs of sepsis, difficulty ngina. Refer urgently fo
	admission t - The empiric clindamycir	to protect airway, cal use of cephalo n do not offer adv esponse to first lin	achieve surgion sporins, co-am antage for mo ne drugs wher	cal drainage a noxiclav, clarit st dental pation referral is the	nd IV antibiotics thromycin, and ents and should only be e preferred option.
scess	admission t - The empiric clindamycir	co protect airway, cal use of cephalo n do not offer adv esponse to first lin Amoxicillin	achieve surgions sporins, co-amantage for mone drugs wher 500 mg	al drainage a noxiclav, clarit st dental pation referral is the Up to 5 days	nd IV antibiotics chromycin, and ents and should only be e preferred option. If pus: drain by incision, tooth
tal abscess	admission t - The empiric clindamycir	to protect airway, cal use of cephalo n do not offer adv esponse to first lin	achieve surgions sporins, co-am antage for mo ne drugs wher 500 mg	cal drainage a noxiclay, clarit st dental pati n referral is th Up to 5	nd IV antibiotics thromycin, and ents and should only be e preferred option. If pus: drain by
Dental abscess	admission t - The empiric clindamycir	co protect airway, cal use of cephalon do not offer adv. esponse to first lin Amoxicillin	achieve surgions porins, co-amentage for mone drugs when 500 mg 8hourly 500 mg —	al drainage a noxiclav, clarit st dental pati referral is th Up to 5 days review at	nd IV antibiotics chromycin, and ents and should only be e preferred option. If pus: drain by incision, tooth extraction or via
Dental abscess	admission t - The empiric clindamycir	co protect airway, cal use of cephalor do not offer advises ponse to first lin Amoxicillin OR Penicillin-V True penicillin allergy:	achieve surgions porins, co-ame antage for mone drugs where 500 mg 8hourly 500 mg - 1g 6hrly 500 mg	al drainage a noxiclav, clarit st dental pati referral is th Up to 5 days review at 3d	nd IV antibiotics chromycin, and ents and should only be e preferred option. If pus: drain by incision, tooth extraction or via

is)	Saline mouthwash.			For temporary pain and swelling relief
Mucosal ulceration and inflammation (simple gingivitis)	antiseptic mouthwash			 If more severe & pain limits oral hygiene. To treat or prevent secondary infection.
	Amoxicillin	500 mg 8 hourly	3 days	Refer to dentist for irrigation &
onitis	+ Metronidazole	500mg 8 hourly	3 days Until oral	debridement
Pericoronitis	+ Chlorhexidine OR hydrogen peroxide		hygiene possible	

GENERAL PRINCIPLES OF ANTIBIOTICS USE IN SURGERY

Treatment and prevention of infection is a cardinal responsibility of the surgical team.

Favorable outcome of surgeries were recorded with appropriate use of antibiotics.

SSI increase mortality, morbidity, hospital stay and cost of treatment.

SELECTION OF ANTIBIOTICS

- Require Knowledge of:
 - 1- organisms identity and its sensitivity to a particular agent.
 - 2- sites of the infection (CNS, bone, GI, UT).
 - 3- safety of the agent.
 - 4- patients factors (age, pregnancy, lactation, systemic illnesses)
 - 5- availability, accessability, affordability of the drug.

INDICATIONS FOR PROPHYLAXIS IN SURGERY.

- 1- clean contaminated and contaminated wound.
- 2- clean wound in which implants or prosthesis are inserted.
- animal or human bite.
- 4- Open fracture.
- 5- delay to cleaning more than 6 hrs.
- 6- foot/hand wounds.
- 7- Wound length more than 5cm.
- 8- crush.
- 9- wound involving body cavity/perineum.
- 10- immuno-suppressed patient
- 11- burns.

GENERAL CONSIDERATIONS

- · Not a substitute or alternative to aseptic practice and good surgical technique.
- · Necessary only in high risk cases of bacterial contamination.
- Preoperative selection of antibiotics should consider the normal flora in clean cases and the likely contaminant in dirty cases.

Anatomical sites	Normal flora
Skin	Staph, strep. propionibacteria.
Oral cavity	Above, anaerobes and gram negative rods
Nasopharynxs	Staph, strept. H influenzae and anaerobes
Oesophagus-jejunum	Flora of nasopharynxs and enterobacteria
Large bowel	Gram –ve rods,enerococci and anaerobic
Female genital tract	Flora of large bowel, staph, strept., and H influenaza
Urinary tract	Normally sterile
Limbs	Staph, strept, propionibacteria,
Thorax	Staph, strep, and propionibacteria

RECOMMENDED DRUGS FOR SOME PROCEDURES

Procedure	Likely pathogen(s)	Recommended Drug	Alternative Regimen
Cardiothoracic	Staph epy, staph aueus, streptococcus, corynebacteria, enteric-gram- negative bacili	Cefazolin	Clindamycin
General surgery			6
Appendectomy (no- perforated)	Enteric Gram (-) bacili	Cefazolin + Metronidazole	Clindamycin + Aminoglycoside
colorectal surgery	Enterococcus, anaerobes.	Cefazolin + Metronidazole	Clindamycin + Aminoglycoside
High-risk esophageal, gasto – duodenal, or biliary surgery	Enteric Gram(-) bacili, Gram(+) cocci	Cefazolin	Clindamycin + Aminoglycoside
penetrating abdominal trauma	Enteric Gram(-) bacili, enterococcus, anaerobes	Cefazolin + Metronidazole	Clindamycin + Aminoglycoside
Gynecologic Surgery			
 c-section (after cord-clamping) 	Staph epi, staph aureus, Group B strep, Enterococcus	Cefazolin	Clindamycin + Aminoglycoside
Hysterectomy	Enteric Gram(-) bacili, Group Bstrep, Enterococcus	Cefazolin	Clindamycin + Aminoglycoside
Head and Neck Surgery	Anaerobes, staph aureus, Gram(-) bacili	Clindamycin	Cefazolin + Metronidazole
Neuro Surgery			
• clean	staph aureus, staph epi, Anaerobes,	Cefuroxim Cefazolin	Clindamycin
skull fracture	staph aureus, staph	Cefazolin	Clindamycin

	epi,		
• penetrating trauma	Staph, strep, Gram(-) bacili, anaerobes	Ceftriaxone, Clindamycin	N\A
• spine	staph aureus, staph epi,	Cefazolin	Clindamycin
Orthropedic surgery			
 closed fracture 	staph aureus, staph epi,	Cefuroxime Cefazolin	Clindamycin + Gentamycin
open fracture	Staph, strep, Gram(-) bacili, anaerobes	Ceftriaxone + Clindamycin	Clindamycin
Urologic surgery	Ÿ		
 Genitourinary (high risk only) 	Gram(-) bacilli, Enterococcus	Cefazolin	Clindamycin + Gentamycin
Vascular surgery	Staph epi, staph, strep, Gram(-) bacili, anaerobes	Cefazolin	Clindamycin

PERIOPERATIVE TREATMENT

- It should start with premedication.
- Should be administered 30 min to 1 hour before the surgery.
- Should be intravenous.
- Aiming at saturated tissue concentration above MIC at the time of surgery or manipulation.
- Re-administer at 1-2 t ½ of the antibiotics for prolonged surgery.
- 24-48 hr is as effective as administration for 7 days.

THERAPEUTIC ANTIBIOTIC USE

- Establish a clinical diagnosis and the need for Antibiotics base on history and physical examination.
- 2. Determine the Urgency of the situation.
 - Non-urgent situation: mild infection or chronic infection.
 - Urgent situation: suspected severe infection.
- Obtain an appropriate clinical specimen for examination, culture and sensitivity.
 - 4. Remove barrier to cure by:
 - Debridement.
 - Segustrectomy.
 - Good wound care.
 - Determine the most likely organism causing the infection.
 - Focus of infection.
 - Age.
 - Epidemiologic features.
 - Prior culture data.
 - 6. If multiple antibiotics are available to treat pathogen, choose the best agent.
 - Prior antibiotic allergies.
 - Antibiotic penetration.
 - Potential side effects.
 - Medical condition of the patient.
 - 7. Antibiotic combination can be considered to achieve Synergism.
 - 8. Assess effectiveness of antibiotic therapy.
 - Clinical assessment: Temperature 48 hrs 4 BC antibiotics, 3-4 days 4 BS drugs
 - Inflammatory markers- signif. CPR < 25% from the baseline within 24 hrs.
 - Contagiousness of patient BC 24hrs. BS 5 days
 - 9. Initial therapy may need modification after culture results are available.
 - Modification not necessary if there is significant relief of symptoms.
 - Narrow spectrum of antibiotics should be used (to decrease the risk of colonization).
 - Negative cultures.

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الدليل العراقي لاستعمال المضادات الحياتية

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