

Medical Necessity Guidelines

Service Description	Medical Necessity Guidelines	Limits or Restrictions	Most Common Antibiotics
<p>1. Penicillins</p>	<p>Penicillin is one of the most commonly used antibiotics globally; it has a wide range of clinical indications. It is also considered one of the strongest. Interrupts proliferation of the bacteria.</p> <p>Penicillin is effective against many different infections involving gram-positive cocci, gram-positive rods (e.g., Listeria), most anaerobes, and gram-negative cocci (e.g., Neisseria).</p> <p>Importantly, certain bacterial species have obtained penicillin resistance, including enterococci. Enterococci infections now receive treatment with a combination of penicillin and streptomycin or gentamicin.</p> <p>Certain gram-negative rods are also resistant to penicillin due to penicillin's poor ability to penetrate the porin channel.</p> <p>However, later generations of broad-spectrum penicillins are effective against gram-negative rods.</p> <p>Second-generation penicillins (ampicillin and amoxicillin) can also penetrate the porin channel, making these drugs effective against Proteus mirabilis, Shigella, H. influenzae, Salmonella, and E. coli.</p> <p>Third-generation penicillin such as carbenicillin is also able</p>	<p>It's important to note that penicillins may interfere with the effectiveness of birth control pills.</p> <p>Some individuals exhibit a severe allergic reaction to penicillin known as anaphylaxis. Anaphylaxis is a potentially life-threatening condition that causes dysfunction in several body systems.</p> <p>Penicillins and other beta-lactams do not penetrate well into phagocytes, thus limiting their ability to kill intracellular pathogens. In addition, penicillins only exert their bactericidal effect on bacteria that are actively replicating.</p>	<p>Penicillin G Pennicillin VK Nafcillin Oxacillin Cloxacillin Flucloxacillin Dicloxacillin Ampicillin Amoxicillin Amox-Clav Amp-Sulb Pip-Tazo</p>

	<p>to penetrate gram-negative bacterial porin channels.</p> <p>Fourth-generation penicillins such as piperacillin are effective against the same bacterial strains as third-generation penicillins and Klebsiella, enterococci, Pseudomonas aeruginosa, and Bacteroides fragilis.</p> <p>Penicillins are commonly used for the following conditions: Pneumonia, Tonsillitis, Dental Abscess, Strep Throat, Urinary Tract.</p>		
2. Cephalosporins	<p>These types of antibiotics are usually grouped into categories that are called generations. There are five generations of cephalosporins. The first generation of these antibiotics is usually used for infections that are easier to treat. The latter generations are for more serious bacterial infections. Cephalosporins are often used for strep throat, meningitis, pneumonia, urinary tract infections and ear infections.</p> <p>The fifth generation of cephalosporins is called Ceftaroline and is used for antibiotic resistant infections such as MRSA.</p> <p>The cephalosporins that are primarily prescribed include cephalexin, cefaclor and ceftriaxone (as an injection).</p> <p>Cefazolin, cefuroxime and cefoxitin are not used as often and normally prescribed for individuals with cystic fibrosis or those undergoing dialysis.</p>	<p>Side effects are similar to those experienced with penicillin. These include nausea, diarrhea, rash and thrush. If someone is allergic to penicillins it is likely they will be allergic to cephalosporins since they are similar in molecular structure. Depending on how severe the allergy is, some individuals may be able to still take third, fourth or fifth generation cephalosporins.</p> <p>Cephalosporins have the following limitations: Lack of activity against enterococci. Enterococcus faecalis and E. faecium cause a variety of infections, including endocarditis, urinary tract infections.</p>	<p>Cefazolin Cefotetan Cefoxitin Cefuroxime Cefotaxime Ceftizoxime Cefuroxime Cefoperazone Ceftriaxone Ceftazidime Cefepime Ceftaz-Avibac Ceftaroline Ceftobiprole Ceftobiprole Cefto-Tazo Cefudocol</p>
3. Carbapenems	<p>They are a class of antibiotics also known as beta lactam.</p>	<p>Adverse effects include increased resistance to one</p>	<p>Doripenem Ertapenem</p>

	<p>They work by inhibiting synthesis of the bacterial cell wall. Carbapenems are often used for serious urinary infections, abdominal infections, blood infections and pneumonia.</p> <p>Carbapenems possess the broadest spectrum of activity and greatest potency against Gram-positive and Gram-negative bacteria. As a result, they are often used as “last-line agents” or “antibiotics of last resort” when patients with infections become gravely ill or are suspected of harboring resistant bacteria.</p> <p>The carbapenem antibiotics and their role in our antimicrobial armamentarium. Among the β-lactams currently available, carbapenems are unique because they are relatively resistant to hydrolysis by most β-lactamases, in some cases act as “slow substrates” or inhibitors of β-lactamases, and still target penicillin binding proteins. This “value-added feature” of inhibiting β-lactamases serves as a major rationale for expansion of this class of β-lactams. Interferes with membrane proteins.</p> <p>The most common are: Mero-Meropenem, IMP-cila -rele, Imp-cilastatin, Ertapenem, Doripenem</p> <p>Doripenem, ertapenem, imipenem, and meropenem are each drugs in the Carbapenem class that are usually</p>	<p>of the drugs used in the combination, as well as a lack of synergy or additivity and strain dependence.</p> <p>Carbapenems have low oral bioavailability and thus do not cross gastrointestinal membranes readily and must be administered intravenously.</p> <p>Are eliminated predominately by renal excretion. Carbapenems exhibit unique pharmacological properties and are typically used to treat complicated bacterial infections. A carbapenem is often combined with an antibiotic that targets Gram-positive bacteria when used for the empirical treatment of patients with serious nosocomial infections of unidentified origin.</p> <p>Safety and tolerability. Nephrotoxicity, neurotoxicity, and immunomodulation have been reported with the use of carbapenems, and thus predisposing factors should be considered when administering any carbapenem, they alter the intestinal microflora and select for carbapenem-resistant isolates.</p>	<p>Imp-cilastatin Imp-cila-rele Meropenem Mero-Vabor Aztreonam</p>
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	<p>administered intravenously or injected into a muscle. These drugs are often prescribed for infections that aren't easily treated with other antibiotics.</p> <p>Carbapenems are similar to penicillins. These types of antibiotics, however, so far seem unaffected by the increasing problem of antibiotic resistance.</p>		
4. Fluoroquinolone	<p>The fluoroquinolones are a family of broad spectrum, systemic antibacterial agents that have been used widely as therapy of respiratory and urinary tract infections. Interferes with bacteria DNA replication and transcription.</p> <p>Fluoroquinolones are active against a wide range of aerobic gram-positive and gram-negative organisms.</p> <ul style="list-style-type: none"> Gram-positive coverage includes penicillinase- and non-penicillinase producing Staphylococci, Streptococcus pneumoniae and viridans, Enterococcus faecalis, Listeria monocytogenes, and Nocardia species. Gram negative coverage includes Neisseria meningitides and gonorrhoeae, Haemophilus influenzae, and most clinically important Enterobacteriaceae species, Pseudomonas aeruginosa and Vibrio species. 	<p>It is generally recommended to use these antibiotics only after other courses of treatment have failed.</p> <p>Fluroquinolones have also been linked in recent years to mental health problems, disturbances with blood sugar and specifically aortic aneurysms.</p> <p>Within the last year the FDA has required labeling changes to strengthen the warnings. There may be some cases, however, such as when treating bacterial pneumonia, that the potential benefits outweigh the risks. Serious cases of pneumonia and abdominal infections may require the use of fluoroquinolones.</p>	<p>Ciprofloxacin Delafloxacin Gemifloxacin Ofloxacin Levofloxacin Moxifloxacin Norfloxacin Prulifloxacin Gemifloxacin Gatifloxacin</p>
5. Aminoglycosides	<p>The aminoglycosides are natural products and</p>	<p>The aminoglycosides all have serious toxicities</p>	<p>Gentamicin Tobramycin</p>

		<p>semisynthetic derivatives from a variety of actinomycetes and have potent activity against many gram-negative bacteria. The first aminoglycoside used in clinical practice was streptomycin which was derived from <i>Streptomyces griseus</i> and was the first effective agent against mycobacterium tuberculosis. The aminoglycosides are believed to act by binding to ribosomes of bacteria and blocking protein synthesis.</p> <p>The aminoglycosides are poorly absorbed orally and typically are given parenterally, either by intravenous or intramuscular injection. Gentamicin, tobramycin and amikacin are given parenterally and are used for severe gram negative bacterial infections usually in combination with penicillins or cephalosporins. Streptomycin is now rarely used and largely as adjunctive therapy of multi-drug resistant tuberculosis. Plazomicin is a recently introduced agent and is given intravenously as monotherapy for complicated urinary tract infections or acute pyelonephritis. Plazomicin is a semi-synthetic aminoglycoside which has been modified to evade conventional forms of aminoglycoside resistance. Neomycin is used orally to treat hepatic encephalopathy. Because it is poorly absorbed orally, neomycin causes a decrease in intestinal bacteria, thereby decreasing ammonia production and absorption from the colon.</p>	<p>which often limit their applicability and the dose and duration of therapy. The common serious adverse effects of the aminoglycosides are ototoxicity, neuropathy, and nephrotoxicity.</p> <p>Liver injury from the aminoglycosides is rare, perhaps because the other side effects of aminoglycosides limit the amount that can be given. Isolated case reports of idiosyncratic hepatotoxicity have been published for most, but not all of the aminoglycosides.</p>	<p>Amikacin Plazomicin</p>	
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	<p>Aminoglycosides are broad-spectrum bactericidal antibiotics used mainly to treat aerobic Gram-negative bacteria and selected Gram-positive bacteria often in combination with other antibiotics.</p> <p>Aminoglycosides entered widespread clinical use to combat infections caused by members of the Enterobacterales order of Gram-negatives including Escherichia coli and Klebsiella pneumonia (Krause et al. 2016), and they have also been used effectively against Pseudomonas aeruginosa (Karlowsky et al. 2003) and Staphylococcus aureus (Lee and Lee 2016).</p>			
<p>6. Macrolides</p>	<p>They are usually given as oral medication. Macrolides are often used to treat very basic bacterial infections.</p> <p>Inhibits synthesis of proteins by bacteria, occasionally leading to cell death.</p> <p>These antibiotics are often used for specific types of pneumonia, chlamydia, and urethritis. Macrolides are sometimes prescribed to prevent a bacterial infection.</p> <p>If an individual has had their spleen removed or suffers from sickle-cell disease the person may need to use one of these antibiotics on a regular basis to prevent an infection.</p> <p>Specific drugs in this class include roxithromycin, clarithromycin, azithromycin, and erythromycin.</p>	<p>Minor side effects can include nausea, diarrhea and ringing in the ears.</p> <p>Macrolides are often a good alternative for individuals that are allergic to penicillins or cephalosporins. However, potential complications regarding these antibiotics are that they do have some drug interaction concerns that could lead to serious heart complications.</p>	<p>Erythromycin Azithromycin Clarithromycin Telithromycin</p>	

<p>7. Tetracyclines</p>	<p>Tetracyclines (tetracycline, doxycycline, minocycline, tigecycline) are a class of medication used to manage and treat various bacterial infections.</p> <p>Tetracyclines classify as protein synthesis inhibitor antibiotics and are considered to be broad-spectrum.</p> <p>Tetracyclines activity against a wide range of microorganisms including gram-positive and gram-negative bacteria, chlamydiae, mycoplasmas, rickettsiae, and protozoan parasites.</p> <p>Tetracycline resistance now occurs in an increasing number of pathogenic, opportunistic, and commensal bacteria. The presence of tetracycline-resistant pathogens limits the use of these agents in treatment of disease.</p> <p>Tetracycline resistance is often due to the acquisition of new genes, which code for energy-dependent efflux of tetracyclines or for a protein that protects bacterial ribosomes from the action of tetracyclines. Many of these genes are associated with mobile plasmids or transposons and can be distinguished from each other using molecular methods including DNA-DNA hybridization with oligonucleotide probes and DNA sequencing.</p> <p>A limited number of bacteria acquire resistance by mutations, which alter the permeability of the outer</p>	<p>The most common side effects may include nausea, diarrhea, swollen tongue, troubling swallowing and soreness or swelling in the genital area.</p> <p>A rare but potential serious side effect is possible blindness due to intracranial hypertension.</p> <p>Tetracycline should be taken on an empty stomach, at least 1 hour before or 2 hours after meals or snacks. Drink a full glass of water with each dose of tetracycline. Do not take tetracycline with food, especially dairy products such as milk, yogurt, cheese, and ice cream.</p> <p>Tetracyclines are contraindicated in pregnancy because of the risk of hepatotoxicity in the mother, the potential for permanent discoloration of teeth in the fetus (yellow or brown in appearance), as well as impairment of fetal long bone growth. Tetracycline usage is also associated with teeth discoloration in children under the age of eight. Thus, it should be avoided in pediatric patients under that age.</p> <p>Clinicians should also avoid tetracyclines in patients with renal failure due to the excretion of the drug being primarily by the kidneys. If tetracyclines must be used in this group</p>	<p>Doxycycline Eravacycline Minocycline Omadacycline Tetracycline Tigecycline</p>
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	<p>membrane porins and/or lipopolysaccharides in the outer membrane, change the regulation of innate efflux systems, or alter the 16S rRNA.</p> <p>These drugs can treat rickettsial infections, ehrlichiosis, anaplasmosis, leptospirosis, amebiasis, actinomycosis, nocardiosis, brucellosis, melioidosis, tularemia, chlamydial infections, pelvic inflammatory disease, syphilis, traveler's diarrhea, early Lyme disease, acne, legionnaire's disease, and Whipple disease. They cover <i>Borrelia recurrentis</i>, <i>Mycobacterium marinum</i>, <i>Mycoplasma pneumoniae</i>, <i>Staphylococcus aureus</i> (including methicillin-resistant <i>S. aureus</i> [MRSA]), <i>Vibrio vulnificus</i>, and vancomycin-resistant enterococcus (VRE) (susceptible strains). Meningococcal prophylaxis is also achievable.</p> <p>Other indications of tetracyclines include rosacea, bullous dermatoses, sarcoidosis, Kaposi sarcoma, pyoderma gangrenosum, hidradenitis suppurativa, Sweet syndrome, α1-antitrypsin deficiency, panniculitis, pityriasis lichenoides chronica, rheumatoid arthritis, scleroderma, cancer, and cardiovascular diseases (abdominal aortic aneurysm and acute myocardial infarction).</p>	<p>of patients, either reduce the dosage and/or increase the interval between doses should be prolonged.</p>	
<p>8. Glico-Lipo</p>	<p>The term glycopeptide refers to a group of antimicrobial agents that includes vancomycin and teicoplanin. Since the first two</p>		<p>Daptomycin Vancomycin Teicoplanin Telavancin</p>

	<p>VISA isolates in the United States were also resistant to teicoplanin, the term glycopeptide-intermediate S. aureus (GISA) was used to indicate this broader resistance profile.</p> <p>While GISA may be a more specific term for strains intermediate to both vancomycin and teicoplanin, not all VISA strains are intermediate to teicoplanin; therefore, VISA is a more accurate and widely used term.</p>		<p>Oritavancin Dalbavancin</p>
<p>9. Ox-Lid (Oxazolidinones)</p>	<p>Oxazolidinones are a new class of antibiotics used to treat serious skin and bacterial infections, often after other antibiotics have been ineffective.</p> <p>Target protein synthesis in a wide spectrum of gram-positive and anaerobic bacteria. Inhibits synthesis of proteins by bacteria, preventing growth.</p> <p>Oxazolidinones are a recent class of synthetic antibiotics with a chemical structure characterized by a basic nucleus of 2-oxazolidone active against a wide spectrum of multidrug-resistant Gram-positive bacteria (GPB), namely vancomycin-resistant Enterococcus (VRE), MRSA and Mycobacterium tuberculosis (Mtb).</p> <p>Oxazolidinones bind to the 50S ribosomal subunit, inhibiting the biosynthesis of bacterial proteins. The first oxazolidinone clinically available was Linezolid (LNZ), discovered in 1996 and</p>		<p>Linezolid Tedizoline</p>

	<p>approved in 2000 for clinical use by the FDA (U.S. Food and Drug Administration). LNZ is widely employed for GPB infections, and it is considered an efficient drug for surgical infections and in the treatment of drug-resistant pulmonary infections and MDR-TB infections.</p> <p>Among oxazolidinones, only LNZ and Tedizolid are clinically approved for MDR-TB infections. Tedizolid (TZD) belongs to the second generation of oxazolidinones and is also indicated for the treatment of skin infections.</p> <p>Radezolid (RZD), belonging to the biaryl oxazolidinone family, is effective against resistant LNZ strains. Although clinical trials into community-acquired pneumonia and into skin and soft tissue infections have concluded, studies on its acceptability are not yet finished.</p> <p>In the field of treating MDR-TB infections, many efforts have been made to discover the next generation of oxazolidinones having better antibacterial efficacy and fewer adverse effects. Recently, several oxazolidinone analogs have been developed at well-known pharmaceutical companies, some of which have been found to be suitable for treating MDR-TB.</p>			
10. Poly	<p>Polymyxins comprise a class of antibiotics targeting gram-negative bacterial infections.</p> <p>Polymyxin B and Polymyxin E (colistin) are the two drugs</p>	<p>Hypersensitivity to polymyxin B, colistin methanesulfonate, colistin, or any formulation component.</p>	<p>Polymyxin B Colistin Lefamulin</p>	

		<p>within this antibiotic class used primarily in clinical practice. They are FDA approved for serious infections with multidrug-resistant gram-negative bacteria, especially those caused by Enterobacteriaceae, Pseudomonas aeruginosa and Acinetobacter baumannii.</p> <p>Polymyxins are often the only effective antibiotic agent against multidrug-resistant organisms, particularly carbapenem-resistant Enterobacteriaceae. They have become the last line of treatment for infections that are resistant to other antibiotics. They are useful in treating infections of the urinary tract, meninges, and bloodstream by susceptible strains of pseudomonas aeruginosa, Enterobacteriaceae, and Acinetobacter baumannii.</p> <p>Drugs act on the outer membrane of gram-negative bacteria by destabilizing the phospholipids and lipopolysaccharides (LPS) present. There is an electrostatic interaction between the positively charged polymyxin and the phosphate groups of the negatively charged lipid A membrane, which causes displacement of divalent cations such as calcium and magnesium from the phosphate groups within these membrane lipids. This activity leads to increased permeability, a disrupted outer cell membrane, and intracellular contents begin to</p>	<p>Renal function requires close monitored during the administration of intravenous polymyxins as a result of the high frequency of nephrotoxicity and potential severity.</p> <p>Therapeutic drug monitoring of polymyxins is also a recommendation due to a narrow therapeutic window for efficacy and toxicity. However, therapeutic drug monitoring for the polymyxins is not universally available. Decreasing urine output, increasing BUN, and creatinine may require discontinuation of systemic therapy with polymyxins.</p> <p>The recommended target serum concentration level is 2 mg/mL for susceptible strains.</p>		
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	leak out, resulting in cellular bacterial death.		
11. Anti fungals	<p>Fungi are unicellular or multicellular eukaryotic organisms that exist in all environments worldwide. While most fungi do not play a significant role in human disease, there are several hundred fungi that do, resulting in fungal infection or disease. Fungal infections (mycoses) range from common benign infections like 'jock itch' to serious, life-threatening infections such as cryptococcal meningitis. Antifungal antimicrobials are one drug class that can combat these mycoses.</p> <p>Clinically, fungal infections are best categorized first according to the site and extent of the infection, then the route of acquisition, and finally, the virulence of the causative organism. These classifications are essential when determining the most effective treatment regimen for a particular mycosis. Mycoses classify as local (superficial, cutaneous, subcutaneous) or systemic (deep, bloodborne). The acquisition of the fungal infection is either an exogenous (airborne/inhalation, cutaneous exposure, percutaneous inoculation) or an endogenous process (normal flora or reactivated infection). The virulence of the organism is classified as either a primary infection (disease arising in a healthy host) or opportunistic infection (disease arising in human hosts that have a compromised immune system or other</p>	<p>All formulations of amphotericin B (AMB-d, L-AMB, ABLC, ABCD) are contraindicated in patients with a known or likely hypersensitivity to amphotericin B or any components of the L-AMB, ABLC, or ABCD formulations.</p> <p>Nystatin is contraindicated in patients with hypersensitivity to the drug or any additional components in the dosage formulation.</p> <p>All azoles should be avoided in patients with hypersensitivities to azole drugs or dosage form components and used with caution in patients with renal impairment/failure and or hepatic impairment/failure.</p> <p>Fluconazole requires cautious administration in patients with electrolyte abnormalities, torsades de pointes, and or medical history, family history, and or current QTc prolongation.</p> <p>Itraconazole has an FDA boxed warning against the use in treating onychomycosis in patients with CHF. Itraconazole is contraindicated in pregnancy, left ventricular dysfunction, and current or active congestive heart failure. This drug should be used cautiously in patients</p>	<p>Amphotericin B Micafungin Casposfungin Anidulafungin Isavuconazonium Sulfate Posaconazole Voriconazole Itraconazole Fluconazole</p>

		<p>defenses).</p> <p>Aspergillosis - <i>Aspergillus fumigatus</i>, <i>A. flavus</i> Blastomycosis - <i>Blastomyces dermatitidis</i> Candidiasis - <i>Candida albicans</i>, <i>C. glabrata</i>, <i>C. krusei</i>, <i>C. parasilosis</i>, <i>C. tropicalis</i> Chromoblastomycosis (Chromomycosis) - <i>Cladosporium carrionii</i>, <i>Phialophora verrucosa</i>, <i>Fonsecaea pedrosoi</i> Coccidioidomycosis - <i>Coccidioides immitis</i>, <i>C. posadasii</i> Cryptococcosis - <i>Cryptococcus neoformans</i>, <i>C. gattii</i> Dermatophytosis (Tinea) - <i>Microsporum</i> spp., <i>Epidermophyton</i> spp., <i>Trichophyton</i> spp. Fusariosis - <i>Fusarium oxysporum</i>, <i>F. proliferatum</i>, <i>F. verticillioides</i> Histoplasmosis - <i>Histoplasma capsulatum</i> Mucormycosis (Zygomycosis) - <i>Mucor</i> spp., <i>Rhizopus</i> spp. Paracoccidioidomycosis - <i>Paracoccidioides brasiliensis</i> Pneumocystis pneumonia - <i>Pneumocystis jirovecii</i> (formerly called <i>P. carinii</i>)* *While this is an essential and prevalent fungal disease, it is not treated with typical antifungal agents. Sporotrichosis - <i>Sporothrix schenckii</i> Tinea (Pityriasis) Versicolor - <i>Malassezia furfur</i> (also called <i>Pityrosporum orbiculare</i>), <i>M. globosa</i></p>	<p>with cystic fibrosis, cardiovascular disease, pulmonary disease, and the elderly. Ketoconazole carries several FDA boxed warnings:</p> <ul style="list-style-type: none"> • This agent should be used only when another effective antifungal, including azoles, cannot be tolerated or is not available • This agent carries a significant risk of hepatotoxicity, even in patients without predisposing factors, and thus any treatment with ketoconazole should include close liver function monitoring. • Ketoconazole has several contraindicated drug interactions that may cause QTc prolongation by increasing concentrations of cisapride, disopyramide, dofetilide, dronedarone, methadone, quinidine, or ranolazine. Ketoconazole is a cytochrome P450 inhibitor. <p>Voriconazole is contraindicated in galactose malabsorption/intolerance, Lapp lactase deficiency, glucose malabsorption, uncorrected electrolyte abnormalities, and</p>		
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			<p>susceptible patients and those with existing disease states; particularly patients with a hypersensitivity to griseofulvin, a hypersensitivity to penicillins (there is a possible cross-reaction between penicillins and griseofulvin), hepatic failure, patients with known porphyrias, and patients that are pregnant or nursing.</p> <p>Flucytosine carries an FDA boxed warning that this agent should be used with extreme caution in renal impairment and that hematologic, hepatic, and renal function should have close monitoring. This agent is contraindicated in patients with hypersensitivity to this drug or its components, first trimester pregnancies, and breastfeeding women. Caution is advisable with this agent in patients with renal impairment, hepatic impairment, bone marrow depression, and pregnant patients in their second or third trimester.</p> <p>The quinolines iodoquinol and clioquinol are contraindicated in patients with hypersensitivities to the drugs or their components.</p> <p>Antifungals, which are utilized only as topical agents, including ciclopirox, potassium iodide, and zinc pyrithione, should be avoided in patients with hypersensitivities to these agents.</p>		
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Medical Policy

Healthcare Services Department

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Reference Information

Gilbert, David N., M.D., Chambers, Henry F., M.D., Saag, Michael S., M.D., Pavia, Andrew T., M.D., Boucher, Helen W., M.d., **The Sanford Guide to Antimicrobial Therapy 2022**, 22nd. Edition.

Links:

Infectious Diseases Society of America

<https://www.idsociety.org/practice-guideline/alphabetical-guidelines/>

National Library of Medicine

<https://www.nlm.nih.gov/>

Policy History

Date	Version	Comments
12/07/2023	Draft	New Medical Policy
12/15/2023	Final	<ul style="list-style-type: none"> Approved by Medical Policy Committee with inclusion of the following wording: The approval of IV antibiotics is subject to step therapy in instances when an oral formulation of the medication is available.
04/08/2024	Revision/Final	<p>Removed the following wording from Policy Name/Title:</p> <ul style="list-style-type: none"> Hydration Administration (IV)/External Infusion Pumps <p>Removed from service description the following:</p> <ul style="list-style-type: none"> The general information related nursing services and general antibiotic use. <p>Removed wording from the General Description of services specifically in the following section: Please note that all services described in this policy require prior authorization.</p> <ul style="list-style-type: none"> Removed: LCD, Articles and other evidence-based guidelines such as MCG (Milliman) are utilized to determine hydrations, supplies and equipment as per standard regulation and as applicable. <p>Removed wording from the following paragraph: Enclosed document contains but is not limited to the following information: Specifically removed the following wording:</p> <ul style="list-style-type: none"> brief service description <p>Removed from Medical Necessity Guidelines the following numbers:</p> <ul style="list-style-type: none"> 12. Hydration Administration 13. External Infusion Pumps <p>Removed the following links from references:</p> <ul style="list-style-type: none"> https://www.hopkinsguides.com/hopkins/index/Johns_Hopkins_ABX_Guide/Antibiotics A52732 Billing and Coding: Hydration Services https://www.cms.gov/medicare-coverage-database/view/ncd.aspx <u>Guidance on the Treatment of Antimicrobial Resistant Gram-Negative Infections</u> https://www.idsociety.org/practice-guideline/amr-guidance/#null

		<ul style="list-style-type: none">• L33794 External Infusion Pumps Medicare Coverage Database https://www.cms.gov/medicare-coverage-database/view/ncd.aspx• National Library of Medicine Fluoroquinolones https://www.ncbi.nlm.nih.gov/books/NBK547840/• National Library of Medicine Article: Oxazolidinone Antibiotics: Chemical, Biological and Analytical Aspects https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8305375/• US Food and Drug Administration https://www.fda.gov/
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