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important considerations when prescribing antimicrobial therapy include obtaining an accurate diagnosis of infection understanding the difference between empiric and definitive therapy identifying opportunities to switch to narrow spectrum cost effective oral agents for the shortest duration necessary understanding drug characteristics that important considerations when prescribing antimicrobial therapy include obtaining an accurate diagnosis of infection understanding the difference between empiric and definitive therapy identifying opportunities to switch to narrow spectrum cost effective oral agents for the shortest duration necessary understanding drug characteristics that antimicrobial agents are appropriate treatment for acute severe persistent or progressive infectious diseases the efficacy of treatment depends on the accuracy of the diagnosis of infection and the appropriateness of the antimicrobial agent for the causative microorganism on completion of this article you should be able to 1 determine the appropriate timing of initiation of antimicrobial therapy 2 recognize different types of adverse effects of antimicrobial agents and modify antimicrobial therapy as appropriate and 3 identify clinical scenarios in which use of antimicrobial agents is inappropriate prevention of antimicrobial resistance in healthcare settings requires an integrated strategy focusing on the following preventing infection diagnosing and treating infection effectively using antimicrobials wisely and preventing transmission the following methods have been proposed thus far bacteriophage therapy prophylactic vaccination the use of antimicrobial peptides photodynamic therapy silver ion therapy and chelate therapy antimicrobial resistance amr makes antimicrobial therapy exceptionally challenging 1 the rights of individuals to access safe and effective antimicrobial agents are intricately balanced with the long term need to preserve these agents as strategically valuable societal assets the use of antimicrobials disrupts the normal gut microbiota allowing for the overgrowth of resulting in fever severe diarrhea and colitis the importance of the oral microbiome to our health is no exception novel biomarkers such as multi protein signatures and host gene expression tests have shown promise as tools to better differentiate between bacterial and non bacterial infections clinical studies are needed to determine whether they can be used to help optimize the duration of amt 1 introduction in both the community and hospital setting antibiotics are being commonly prescribed to treat many common infections antimicrobial drug uses in hospitals contribute significantly to rising healthcare costs and have been reported to account for up to 25 50 of a pharmacy department s drug acquisition budget 1 4 this chapter reviews the general classes of antimicrobial drugs their mechanisms of action and mechanisms of resistance and principles of drug selection chapters 57 through 68 present the pharmacological properties and uses of individual classes of antimicrobials controlling the emergence and spread of antimicrobial resistance combat through infection prevention improved antibiotic and antifungal use actions to slow spread inhaled antibiotics dramatically improve targeting of drug to the site of respiratory infections while simultaneously minimizing systemic exposure and associated toxicity the high local concentrations of antibiotic may enable more effective treatment of multi drug resistant pathogens important considerations when prescribing antimicrobial therapy include obtaining an accurate diagnosis of infection understanding the difference between empiric and definitive therapy identifying opportunities to switch to narrow spectrum cost effective oral agents for the shortest duration necessary understanding drug characteristics that beginning date 1971 former title guide to antimicrobial therapy 1971 1994 frequency annual vol date range 1971 note sanford guide on cover hot disease in chinese characters sanford guide antimicrobial therapy free webhelpful in day to day practice and as a component of your organization s antimicrobial stewardship program the sanford guide provides valuable guidance in the age of antibiotic resistance we must all advocate for phage therapy in order for it to become a viable treatment option to help overcome the antimicrobial resistance crisis references summers w c bacteriophage 2 130 this is dwarfed by antimicrobial consumption in animals which accounts for 80 of antimicrobial use in the united states and more than 63 000 tons globally most for non therapeutic use growth antimicrobial resistance amr is a global threat to public health with deaths attributed to resistant infections projected to exceed ten million per year by 2050 1 the rapid evolution of resistance requires early identification of patients at risk followed by administration of appropriate empiric antibiotic therapy collaboration between stewardship teams and the microbiology lab can play a antimicrobial therapy is the cornerstone of treatment with a high cure and low recurrence rate antimicrobial treatment alone is highly efficacious in small relatively new buruli ulcer lesions primary regimens consist of rifampicin with a macrolide e g clarithromycin or a quinolone e g moxifloxacin

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