

Empirical Antimicrobial Treatment

Student name:

Student ID:

University name:

The Essay Assignment Help

Site of Infection	Usual Causes	First Choice Treatment (Select antibiotics and dosage) as influenced by Dumpis et al. (2019)	Alternative Treatment as influenced by Bolson et al. (2015)	What do you do if the patient is allergic? As influenced by Comejo-Garcia et al. (2016)
Otitis media	Pneumococci, <i>Haemophilus influenzae</i> , <i>Moraxella catarrhalis</i> , group A streptococci, <i>Staphylococcus aureus</i> , Enterobacteriaceae	Amoxicillin 45 to 60 mg/kg per day in 3 divided doses	acupuncture or homeopathy	use xylitol that inhibits the growth of bacteria
Sinusitis	Most common: <i>Streptococcus pneumoniae</i> , <i>H. influenzae</i> , <i>M.</i>	amoxicillin 875 mg twice a day x 7 days	Saline nasal spray	Use essential oils to get rid of nose congestion

The Essay Assignment Help

	<p><i>catarrhalis</i>.</p> <p>Others: <i>S. aureus</i>, <i>Streptococcus</i> spp, <i>Neisseria</i> spp anaerobes, and gram-negative rods</p>			
Pharyngitis	<p>Group A, C, G streptococci, mononucleosis, <i>Corynebacterium diphtheriae</i>, <i>Arcanobacterium haemolyticum</i>, <i>Mycoplasma pneumoniae</i></p>	<p>Penicillin (oral)</p> <p>Children: 250mg two times a day</p> <p>adults: 250 mg 4 times a day for ten days</p>	<p>saltwater gargle</p>	<p>use of licorice root or use Amoxicillin</p>
Bronchitis	<p>Virus; rare <i>M. pneumoniae</i>, <i>Chlamydia</i></p>	<p>azithromycin, 500 mg intravenously (IV) as a single dose</p>	<p>Quit smoking using essential oils from eucalyptus for easing the</p>	<p>P Penicillin</p>

The Essay Assignment Help

			symptoms	
Acute bronchitis or pneumonia in patients with COPD	<i>S. pneumoniae</i> , <i>H. influenzae</i> , <i>M. catarrhalis</i>	telithromycin, two tablets of 400 mg taken once for 7 to 10 days for patients who are 18 years or older	a Practise breathing exercises	advanced macrolide
Pneumonia, community- acquired	<i>S. pneumoniae</i> , <i>H. influenzae</i> , <i>S.</i> <i>aureus</i> , <i>Klebsiella</i> <i>pneumoniae</i> , gram-negative bacilli, anaerobes atypical <i>Legionella</i> , <i>M.</i> <i>pneumoniae</i> , <i>Chlamydia</i> <i>pneumoniae</i> , tuberculosis, <i>Pneumocystis</i>	200 mg doxycycline o n the first day, and 100mg for the remaining days	Use of herbs such as eucalyptus that can break the mucus in upper respiratory tract	Deep breathing exercises

The Essay Assignment Help

Diarrhea, traveler's	<i>Escherichia coli, Shigella, Salmonella, Campylobacter,</i> amebiasis	Fluoroquinolones 500 mg twice daily	Avoid caffeine but consume water and other liquids	Use levaquin
Diarrhea, severe	<i>Shigella, Salmonella, Campylobacter jejuni, E. coli, Clostridium difficile, Entamoeba histolytica</i>	rifaximin 600mg per day	Remain hydrated and eat light	Electrolyte solutions such as Pedialyte can be used
Diverticulitis	Enterobacteriaceae, <i>Bacteroides,</i> enterococci	Moxifloxacin 400 mg PO daily for 7 to 10 days	Change in diet coupled with an increase in consumption of antioxidants	A liquid diet until the bowel heals
Gonorrhoea	<i>Neisseria gonorrhoeae</i>	the single intramuscular dose of ceftriaxone 250 mg	Practise safe sex to avoid the disease	Use of azithromycin as an alternative drug

The Essay Assignment Help

Urethritis	<i>Chlamydia trachomatis</i> , <i>Ureaplasma urealyticum</i>	100 mg oral doxycycline twice a day for ten days	3 to 5 pellets of a 12X to 30C remedy every 1 to 4 hours until improvement	Use nonsteroidal anti-inflammatory medications
Syphilis	<i>Treponema pallidum</i>	Penicillin as injection of a single shot	Syphilis is linked with HIV infection and does not demand advanced antimicrobial therapy	doxycycline
Prostatitis >35 years old	Enterobacteriaceae	Carbapenem, 3 to 4 times a day less than 1gram	Drink enough amount of water to keep the system flushed	eat anti-inflammatory medicines or food
UTI, uncomplicated	<i>E. coli</i>	levofloxacin, 750mg for 5days once a day	Remain hydrated and drink cranberry juice	nitrofurantoin
UTI, complicated	<i>E. coli</i> , gram-negative bacilli,	oral fluoroquinolone	Remain hydrated and drink	levofloxacin

The Essay Assignment Help

	enterococci, <i>S. aureus</i> , or <i>Staphylococcus epidermidis</i>	1000 mg ER x 7 days	cranberry juice	
Bite, cat	<i>Pasteurella multocida</i> , <i>S. aureus</i>	clavulanate 20 IU/kg on 3, 7, 14 and 28 days	over the counter antibiotic creams after cleaning the area of the bite	Amoxicillin
Bite, dog	Viridans streptococci, <i>Pasteurella multocida</i> , <i>S. aureus</i> , <i>Bacteroides</i> spp, <i>Fusobacterium</i> spp, <i>Capnocytophaga</i>	clindamycin 150 mg every 6 hours	Directly applying Goldenseal extraction on the infected areas	Goldenseal extraction
Bite, human	Viridans streptococci, <i>S. epidermidis</i> , corynebacteriu	Cephalexin 500mg once a day for a few weeks	Wash the wound and take the first aid	Take a tetanus shot

The Essay Assignment Help

	m, <i>S. aureus</i> , <i>Eikenella</i> , <i>Bacteroides</i> , <i>Peptostreptococcus</i>			
Erysipelas	Group A <i>Streptococcus</i> , <i>S. aureus</i>	penicillin (oral) Children: 250mg two times a day adults: 250 mg 4 times a day for ten days	Homeopathy medicine	Erythromycin
Impetigo	Group A <i>Streptococcus</i> , impetigo	Cephalexin 500mg once a day for a few weeks	Apply raw honey directly to impetigo sores,	Amoxicillin
Infected wound postoperative	<i>S. aureus</i> , Group A streptococci, Enterobacteriaceae	Cefotetan, 2 to 4g daily	Keep the wound dry and clean	Mefoxin

The Essay Assignment Help

Lyme disease	<i>Borrelia burgdorferi</i>	100 mg oral doxycycline twice a day for ten days	Use immune-boosting supplements such as Vitamin B and C	Amoxicillin
--------------	-----------------------------	--	---	-------------

Reference list

- Dumpis, U., Hahlin, A., Varvuolyte, S., Stenmark, S., Veide, S., Valinteliene, R., ... & Struwe, J. (2018). Antibiotic prescription and clinical management of common infections among general practitioners in Latvia, Lithuania, and Sweden: a pilot survey with a simple protocol. *European Journal of Clinical Microbiology & Infectious Diseases*, 37(2), 355-361.
- Bolson, M., Hefler, S. R., Dall, E. I., Chaves, O., Junior, A. G., & Junior, E. L. C. (2015). Ethno-medicinal study of plants used for the treatment of human ailments, with residents of the surrounding region of forest fragments of Paran , Brazil. *Journal of ethnopharmacology*, 161, 1-10.
- Cornejo-Garcia, J. A., Romano, A., Gueant-Rodriguez, R. M., Oussalah, A., Blanca-L pez, N., Gaeta, F., ... & Canto, G. (2016). A non-synonymous polymorphism in galectin-3 lectin domain is associated with allergic reactions to beta-lactam antibiotics — *the pharmacogenomics journal*, 16(1), 79.