

Drug-Resistant Organisms Essay

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Drug-Resistant Organisms (DRO's) are bacteria and other organisms that have developed a resistance to certain drugs. In other words, a particular drug is no longer able to kill or control a specific bacteria or organism. Other terms used to describe this situation include antibiotic resistance, antibacterial resistance and antimicrobial resistance. (Canadian Centre for Occupational Health and Safety, 2003)

Sixty-six percent of patients with acute [sinusitis](#) grow at least 1 pathogenic bacterial species on sinus aspirates, while 26-30% percent of patients have multiple predominant bacterial species. The [bacteria](#) most commonly involved in acute sinusitis are part of the normal nasal flora. These bacteria can become sinus pathogens when they are deposited into the sinuses by sneezing, coughing, or direct invasion under conditions that optimize their growth. (Brook and Cunha, 2011)

The most common pathogens isolated from maxillary sinus cultures in patients with acute bacterial rhinosinusitis include Streptococcus pneumoniae, Haemophilus influenzae, and Moraxella catarrhalis. Streptococcus progenies, [Staphylococcus aureus](#), and anaerobes are less commonly associated with acute bacterial rhinosinusitis, they have been found in fewer than 10% of patients with acute bacterial sinusitis, despite the ample environment

available for their growth. The exceptions are in sinusitis resulting from a dental source and in patients with chronic sinus disease, in whom anaerobic organisms are usually isolated. (Brook and Cunha, 2011)

The staphylococci are Gram-positive spherical cells, usually arranged in grapelike irregular clusters. The genus *Staphylococcus* has at least 40 species, which are separated in to two major groups on the basis of their abili...

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...ential pathogens. Their ability to survive and acquire resistance genes in the environment may, in part, explain why they are still continue to be a major potential pathogen to humans and animals. (Abulreesh, 2011)

Works Cited

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