



# ROLE OF BIOCRAFT IN HOSPITALS

This is the first part of the 10-part series  
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Author

Shankar

GM – Operations

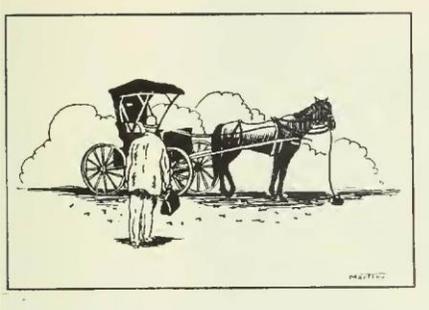
BIOCRAFT

Mobile: 9043020932

E-Mail: [shankar@biocraft.in](mailto:shankar@biocraft.in)

# History of Nosocomial Infections:

This document series has been drafted with Healthcare Professionals in mind, However, we would like to make this document interesting by going back in history to trace the roots of Hospital Acquired Infections (HAI) or Nosocomial infections.



In early days when the concept of hospital was not in vogue, it was always the practice for the doctors (or self-styled healthcare professionals) to visit the patients at home. As the public started to depend more on these professionals a need was perceived to create a space where doctors can be available and the patients can be brought in there for treatment.

It was during this time it was realized that the infections travel from one patient to others through various processes like air borne, touch, surface and other means. The term NOSOCOMIAL infection was coined during this period. As hospitals advanced with time, the problems of cross infection, increased creating a need for a dedicated team of people whose only responsibility would be to control these infections.



As the scope of hospitals developed and with the advent of antibiotics and its extensive usage, gave way to a new problem of the bacteria becoming immune or resistant to the antibacterial treatments and medications, complicating the treatment. This made it imperative for the hospital management to keep bacterial cross infection at the minimum possible levels.

The reactive approaches through chemicals, hand hygiene and good housekeeping practices of healthcare standards are keeping the problem at manageable levels. Though we would like to highlight the HAI case numbers across the different regions, it might be scary for a non-industry person. The problem of HAI, is a reality across nations, immaterial of their classification as developed, developing or under developed. The variations being just the numbers of lives lost but not the risk associated with it.

## Common Terminologies used in Infection control:

**PATHOGENS**: There are thousands of bacteria, viruses and fungal species that are coexisting along with humans in this earth. The harmful types are generically called as pathogens.

**VECTORS**: Any medium through which the pathogens can travel from one person to another are called a Vectors, Air is a vector, dress materials are vectors....so on, the stethoscope is itself a vector capable of harboring over 20,000 bacteria, if not disinfected.

If we go in-depth into the field of Hospital Associated infections, we would come across surgical site infections, respiratory tract infections etc, these infections generally happen during a medical procedures and treatments. The common form of infection spread is through the air borne bacteria and the spread through vectors and physical human interactions.

**World Health Organization** operated under the auspices of **United Nations** have termed the bacterial infection spread as the **Silent Tsunami** and predicted it would be leading to millions of deaths across the globe as early as 2050.

We at BIOCRAFT are glad to be the industry bench marker with the launch of the world's leading technology in PROACTIVE ANTIMICROBIAL PROTECTION, in the Indian market.

The other parts would dwell in detail across the different parts of the hospital and how BIOCRAFT'S non-leaching, long sustaining, wide range antimicrobial protection can complement the hospital management's endeavor to keep the pathogenic bacteria at the minimum possible levels at their infrastructure.