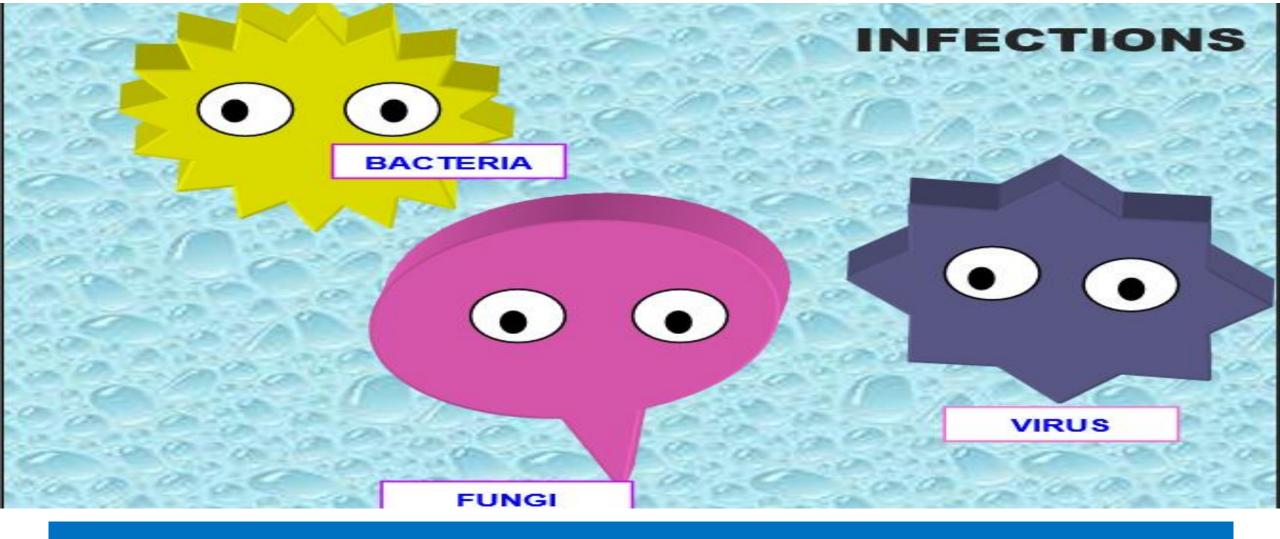
Hazards in Healthcare



Nosocomial Infection

Nosocomial Infection (also called "hospital acquired infection") can be defined as:

- An infection acquired in hospital by a patient who was admitted for a reason other than that infection.

An infection occurring in a patient in a hospital or other health care facility in whom the infection was not present or incubating at the time of admission.

• This includes infections acquired in the hospital but appearing after discharge, and also occupational infections among staff of the facility

Infection that first appears between 48 hours and four days after a patient is admitted to a hospital or other health-care facility.

Patient care is provided in facilities which range from highly equipped clinics and technologically advanced university hospitals to front-line units with only basic facilities.





Despite progress in public health and hospital care, infections continue to develop in hospitalized patients, and may also affect hospital staff.

Many factors promote infection among hospitalized patients: decreased immunity among patients; the increasing variety of medical procedures and invasive techniques creating potential routes of infection; and the transmission of drug-resistant bacteria among crowded hospital populations, where **poor infection control practices** may facilitate transmission.











Epidemiology of hospital acquired infections

Nosocomial infections occur <u>worldwide</u> and affect both <u>developed</u> and <u>resource-poor countries</u>.

Infections acquired in health care settings are among the major causes of death and increased morbidity among hospitalized patients. They are a significant burden both for the patient and for public health.

A prevalence survey conducted under the auspices of WHO in 55 hospitals of 14 countries representing 4 WHO Regions shows that the highest prevalence of nosocomial infections occurs IN

Intensive care units and in acute surgical and orthopaedic wards







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Infection rates are higher among patients with increased susceptibility because of old age, underlying disease, or chemotherapy.





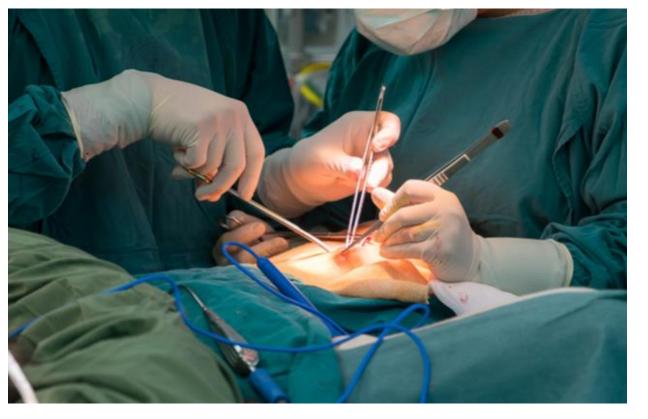




Most common hospital acquired infections for surveillance

1- Surgical site infection

Any purulent discharge, abscess, or spreading cellulitis at the surgical site during the month after the operation







2- Urinary infection

Positive urine culture (1 or 2 species) with at least 105 bacteria/ml, with or without clinical symptoms

3- Respiratory infection (nosocomial pneumonia)

Respiratory symptoms with at least two of the following signs appearing during hospitalization:

- cough
- purulent sputum
- new infiltrate on chest radiograph consistent with infection





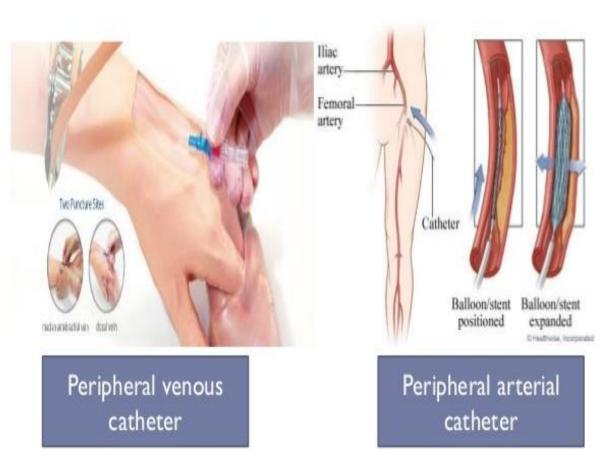




4- Vascular catheter infection

Inflammation, lymphangitis or purulent discharge at the insertion site of the catheter





5- Septicaemia

Fever or rigours and at least one positive blood culture

Other nosocomial infections

Skin and soft tissue infections:

Open sores (ulcers, burns and bedsores) encourage bacterial colonization and may lead to systemic infection.

Gastroenteritis

The most common nosocomial infection in children, where rotavirus is a chief pathogen: Clostridium difficile is the major cause of nosocomial gastroenteritis in adults in developed countries.

Sinusitis

and other enteric infections, infections of the eye and conjunctiva.

Endometritis

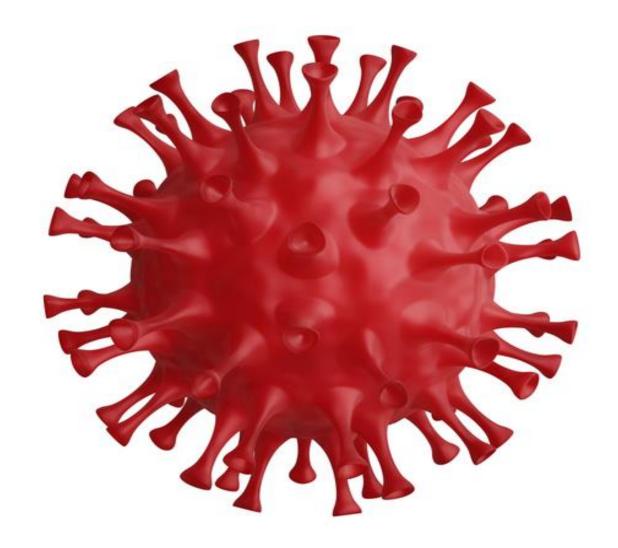
and other infections of the reproductive organs following childbirth.

EMERGING" & "RE-EMERGING Diseases

Emerging infectious diseases whose incidence in humans has increased in the past 2 decades or threatens to increase in the near future have been defined as "emerging".

Re-emerging diseases that once were major health problems globally or in a particular country, and then declined dramatically, but are again becoming health problems for a significant proportion of the population.

Diseases thought to be adequately controlled making a "comeback" are "re-emerging"



SELECTION OF IMPORTANT EMERGING INFECTIOUS DISEASES FROM THE LAST DECADE

- 2013 Influenza virus A/H7N9
- 2012 Middle East respiratory syndrome (MERS) e coronavirus
- 2011 Escherichia coli 0104:H4
- 2010 Huaiyangshan virus, associated with severe fever and thrombocytopenia syndrome (SFTS)
- 2009 Influenza virus A/H1N1
- 2008 Plasmodium knowlesi Lujo virus
- 2005 Human retroviruses HTLV3 and HTLV4
- 2004 Re-emergence of influenza virus A/H5N1
- 2003 SARS corona virus

PROTECTION AGAINST EMERGING INFECTIOUS DISEASES

The preventative methods are

- Vaccination,
- Isolation of cases
- Use of Personal Protective Equipment

Radiation

Medical Diagnostic Imaging Department

Radiation



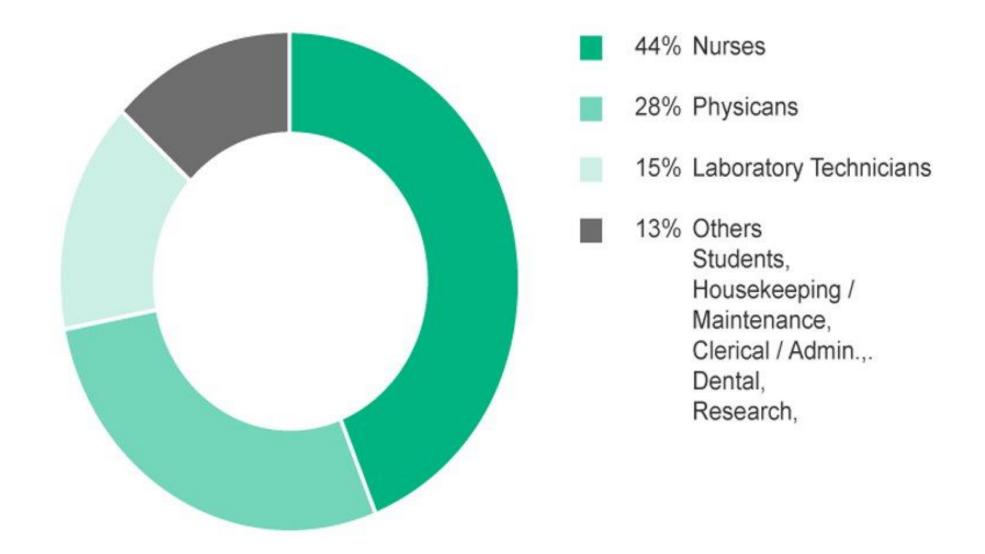
Sharp Injury

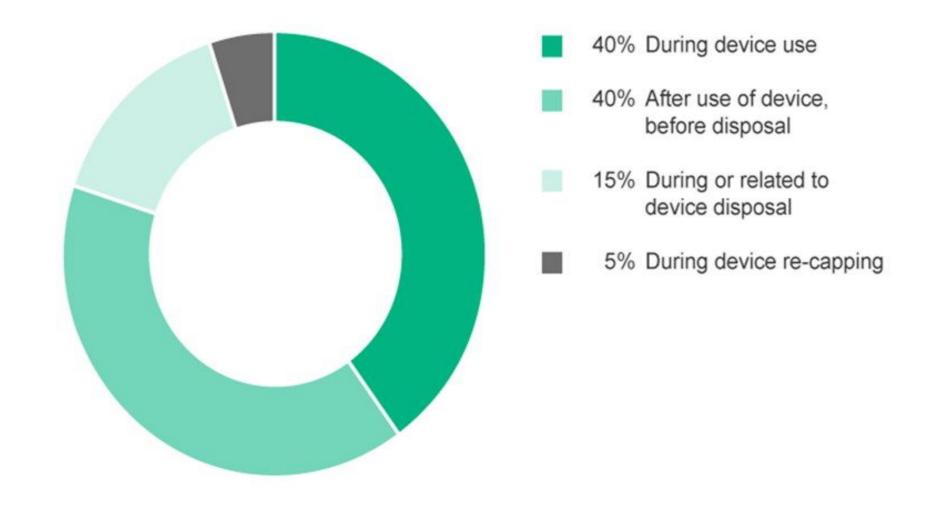


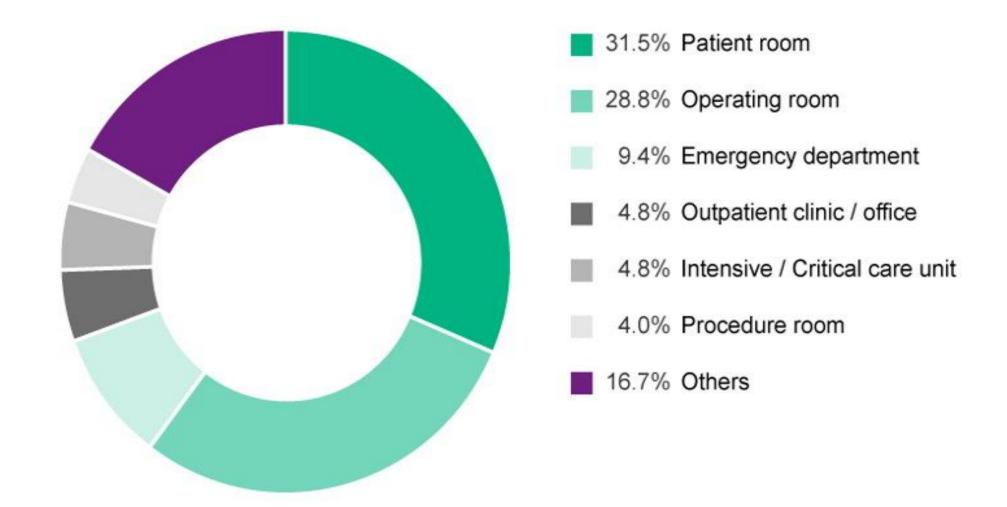
Sharp Injuries are skin penetrating stab wounds caused by sharp instruments and accidents in a medical setting.

These instruments include needles, lancets, scalpels and broken glass.

Diseases associated with Needle Stick Injuries are the blood-borne pathogens HBV, HCV and HIV







Anaesthetic Gases



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Medical Waste









Stress



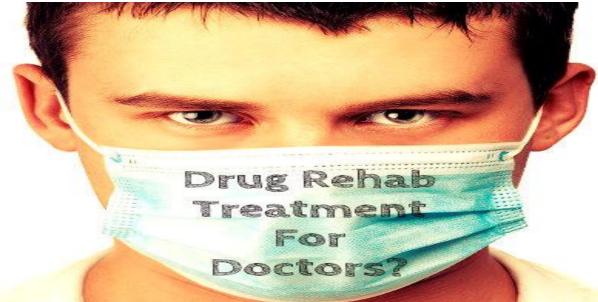




Drug Addiction









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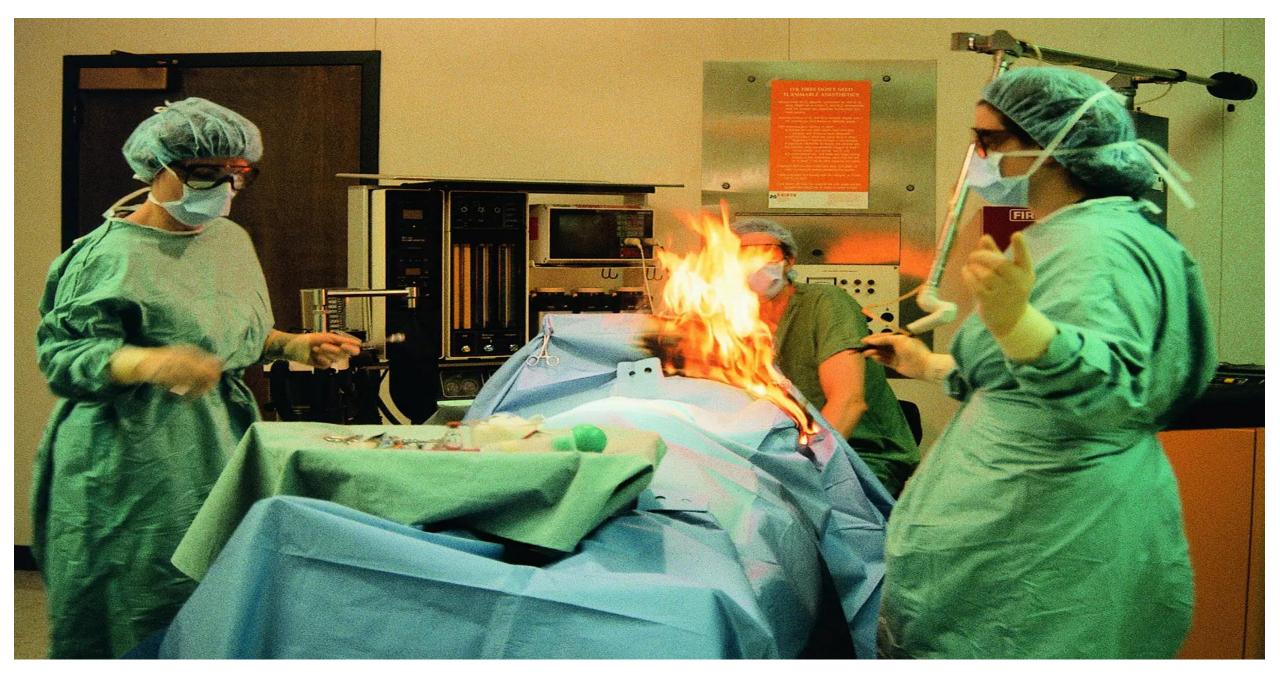
Violence











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Latex Allergies







LATEX



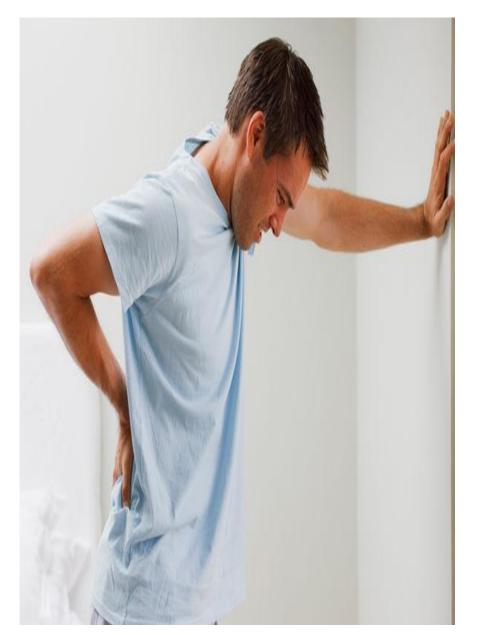
ALLERGY

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Back Pain







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