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## **Bari English Medical Curriculum (D.M. 270/04)**

### **Microbiology and Parasitology**

#### Introduction to Medical Microbiology

- Basic concepts of bacterial world.
- Bacterial structure.
- Bacterial metabolism.
- Bacterial genetics. Plasmids.

#### Bacterial taxonomy.

#### Infection: basic concepts.

#### Pathogenesis of bacterial infections

- Pathogenicity and virulence
- The interplay between humans and bacteria. The normal indigenous flora.
- Attributes of bacterial pathogenicity: spreading factors, toxins, the role of particular bacterial structures (e.g. capsule, fimbriae, pili).

#### The immune response of the host to bacteria. Vaccines.

#### Principles of laboratory diagnosis of infectious diseases.

Pathogenic bacteria. Staphylococci. Streptococci and Enterococci. Corynebacterium. Listeria. Mycobacteria. Clostridium and other anaerobes. Neisseriae. Haemophilus. Enterobacteriaceae. Pseudomonas. Legionella. Rickettsia. Ehrlichia. Bartonella. Spirochetes. Mycoplasma. Chlamydia.

#### Antibacterial agents and resistance.

#### Pathogenic parasites.

- Basic concepts of parasitology.
- Classification of parasites.
- Apicomplexa and Microsporidia.
- Sarcocystis. The Amebas and the Flagellates.
- Tissue and intestinal Nematodes.
- Cestodes.
- Trematodes.