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**Diploma in Pharmacy 2<sup>nd</sup> Year**  
**Pharmacotherapeutics**  
**Chapter 2 ( 1 ) : Anti Microbial Resistance (AMR)**

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## Anti Microbial Resistance (AMR)

- Introduction Anti microbial resistance is the ability of microorganism ( like Bacteria viruses , fungus ) to stop in microbial drug ( antibiotics , antiviral anti malarial etc.) from working against it . And as a result the standard treatment of chemotherapy became ineffective and thus the infection persist in the body and increases the risk of transmission to other.
- The bacteria become antibiotic resistant and infect the human and animal and this infection is harder to treat than those caused by the non resistant bacteria .
- Antibiotic resistance or anti-microbial resistance leads to higher medical cost , prolong hospital stay , and increase mortality rate.

### Types of Anti Microbial Resistance

- **Multi drug resistance ( MDR )** : It is anti microbial resistance shown by a species of microorganism to at least 1 anti microbial drug in 3 or more anti microbial categories ( beta lactam , macrolides , Tetracycline etc.)
- **Extensively drug resistance (XDR)** : The bacteria are classified in this category if they are resistant to all anti microbial agents except in two or less anti microbial categories
- **Pandrug resistance** : The bacteria are classified in this are resistant to all anti microbial agents in all antimicrobial categories.

### Causes of anti microbial resistance

- ✚ It occurs naturally
- ✚ Non resistance bacteria multiply by the billions , a few of them will mutate , some mutation make the bacterium drug resistance
- ✚ Misuse and overuse of antibiotics
- ✚ Not taking complete course of antibiotics
- ✚ Taking antibiotics in low dose than the prescribed dose
- ✚ Taking antibiotics for the infections are commonly self cured

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