Department of Anesthesia Techniques

Title of the lecture:- Microorganismis

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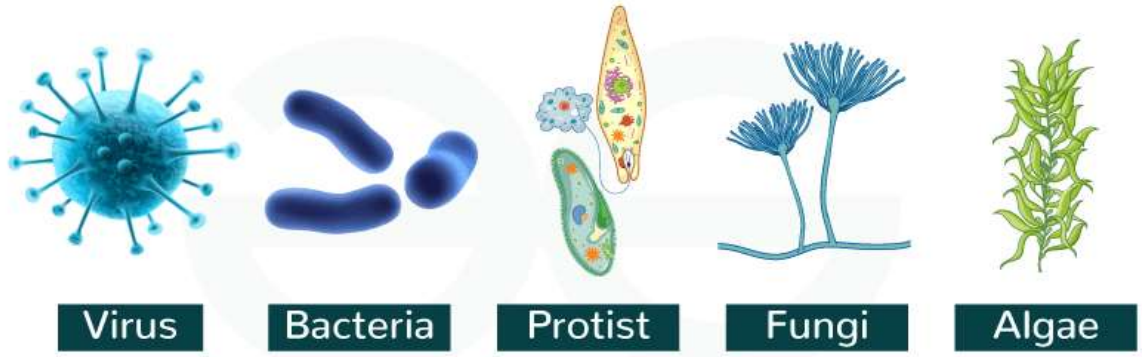
MICROORGANISMIS

A microorganism is a living thing that is too small to be seen with the naked eye. Examples of microorganisms include bacteria, fungi, algae, protozoa, and microscopic animals such as the dust mite.



Instructions to be followed in the microbiology laboratory

1. Commitment to personal protective equipment and following instructions and directions
2. Considering every sample in the laboratory as a pathogen
3. Do not eat or drink inside the laboratory and do not put food in the laboratory refrigerator
4. Dispose of biological and chemical materials in the correct ways
5. Cleaning and disinfecting the experimental site after and before the experiment
6. The laboratory administrator must be informed if any defect occurs

Microbiology laboratory contents

1-Isolation room

It is a glass room used to conduct isolation and purification operations. It contains lighting lamps and an air vacuum. It is preferable to have an ultraviolet lamp for sterilization.

2-Incubator

A device whose temperature can be controlled to achieve good growth of microorganisms such as fungi and bacteria

3-Oven

It is an electrical device whose temperature can be controlled and It is used to heat samples and dry samples such as soil and plant under high heat .

4-Fridge

It is used to preserve samples, fungai or bacterial isolates, or cultural media

5-Autoclave

It is a sturdy metal cylinder to withstand pressure and heat. Water is placed inside it, then the materials and devices to be sterilized are placed. And a special lid that seals it tightly. It is sterilized at a temperature of 101 C for 15-20 minutes.

6-Water bath

It is used to thaw solid environments after sterilization and freezing, and its temperature can be controlled

7-Shaking device 8-Sensitive balance 9-pH meter 10-Centrifuge

11-Electron microscope

Other materials

Glass tools such as test tubes, pipettes, glass slides, slide covers, cylinders, volumetric flasks, Petri dishes.