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STERILISATION

Aseptic techniques

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ASEPTIC TECHNIQUES

The methods which are used to prevent the access of microorganisms during the preparation of parenteral products & testing are called “Aseptic Techniques”.

Design of aseptic room:

Site :

- The site selected for an aseptic room in the building should be away from stairs, lift & corridors.
- The best site is the one where the workers can work undisturbed.
- There should be one or two rooms along with aseptic room for changing & washing.



Size :

- It is depending upon the how many peoples works in it.
- The maintenance cost can be reduced if the aseptic room smaller in size.
- The room should be of reasonable size so that it can be cleaned in routine.

Windows :

- In order to provide good light in aseptic room, glass panes should be used.
- Ventilation should be provided by laminar air flow system.



Doors :

- The entrance to the aseptic room should be through an air-lock with double doors about 1 meter apart.
- This is necessary to prevent a sudden in rush of air when the door is opened. The outer door is opened only when it is confirmed that the inner door is closed.
- For this purpose a small window is needed in the outer door.

Surface Material :

- The floors, walls & bench tops of an aseptic room must be smooth, resistance to chemicals & easily cleanable.
- The floor of the aseptic room needs frequently washing to prevent dust.
- The walls & ceiling should be provided with tiles or smooth plaster or coated with plastic laminated boards.



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Services:

Ventilation :

The clean air free from microorganism can be produced by mechanical filtration or electrostatic precipitation.

Electricity :

- For lighting & for equipments & machinery, the switches & sockets should be made from plastic.
- As far as possible, most of the controls should be outside the room.

Gas supply :

Gas cocks may be on the wall or at the back of the bench.

Disposal of waste:

In order to arrangement should be made that majority of the pipes & fittings get hidden in the walls of the room.