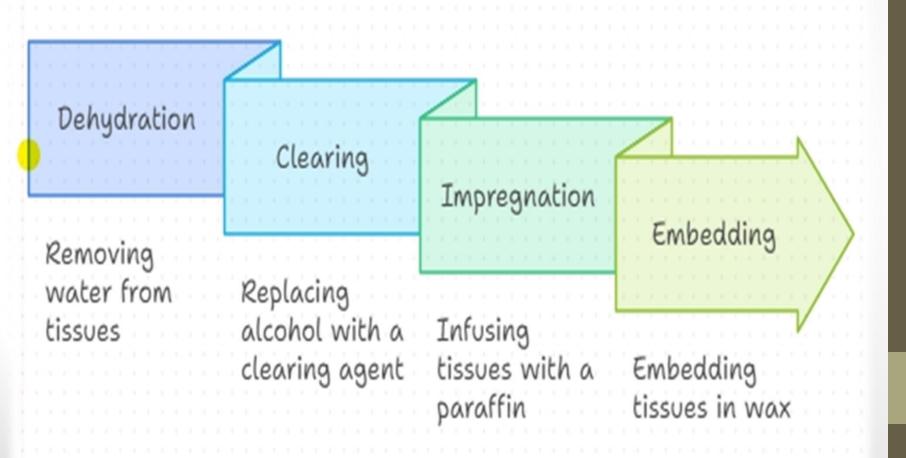


Tissues Processing

Tissue Processing Sequence



1_Dehydration

Which dehydration agent to use for tissue preparation?

Methanol

Ethanol

Less common, effective.

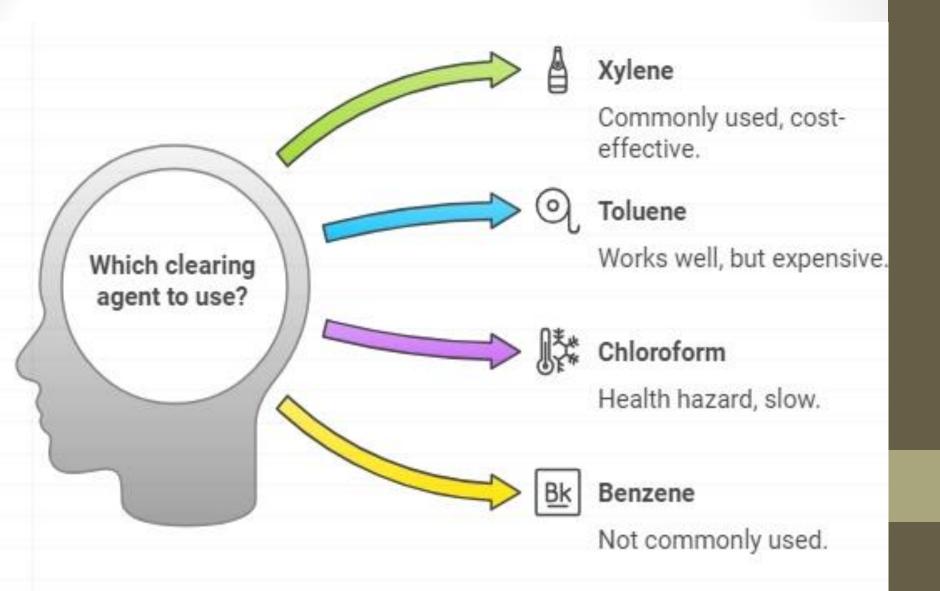
Acetone

Widely used, safe, effective.

Fast, but a fire hazard.



2_Clearing



Choice of a clearing agent depends upon following

- The type of tissue to be processed and the type of processing to be undertaken.
- Safety factors
- Cost and convenience
- Speedy removal by molten paraffin wax.
- Minimal tissue damage

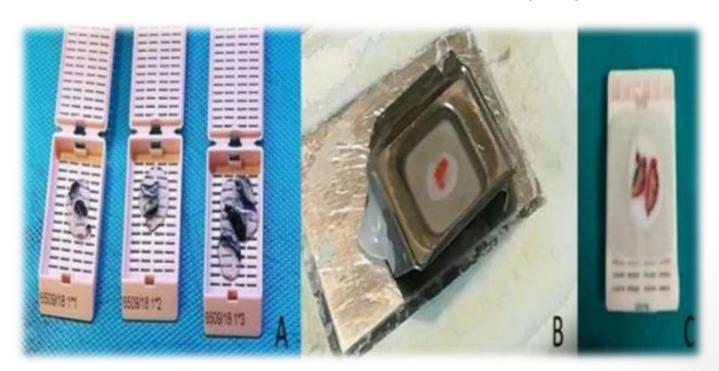
3_Impregnation

- The tissues are put from 2 4 hours in hot soft paraffin at 57
 °C in the oven.
- The paraffin will penetrate in-between the cells of the tissues.



4_Embedding

- Impregnated tissues are placed in a mould and then fresh melted wax is poured in it and allowed to settle and solidify.
- Once the block has cooled sufficiently to form a surface skin it should be immersed in cold water to cool it rapidly.



Trimming

After preparation of was templates preferably trimmed with a sharp blade so that the specimen be in a position Suitable for cutting edges so that they become parallel and can be applied to edge of the knife of microtome.



Summary of Paraffin Wax Embedding

1. Dehydration:

- a. 70% alcohol 1 hour
- b. 90% alcohol I 1 hour
- c. 90% alcohol II 1 hours
- 2. Clearing:
- a. Xylene I 15 minute
- b. Xylene II 15 minute
- 3. Wax Impregnation:
- a. Paraffin wax 1 1 hour
- b. Paraffin wax II 1 hour
- c. Paraffin wax III 1 hou
- 4.Embedding

Sample preparation for the microtome sectioning

