
Different Histological Methods

Definitions

- ▶ **Histology:** The study of the microscopic structure of tissues.
- ▶ **Tissue:** An aggregate of cells in an organism that have similar structure and function.
- ▶ **Cell:** A membrane bound structure containing biomolecules, such as nucleic acids, proteins, and polysaccharides

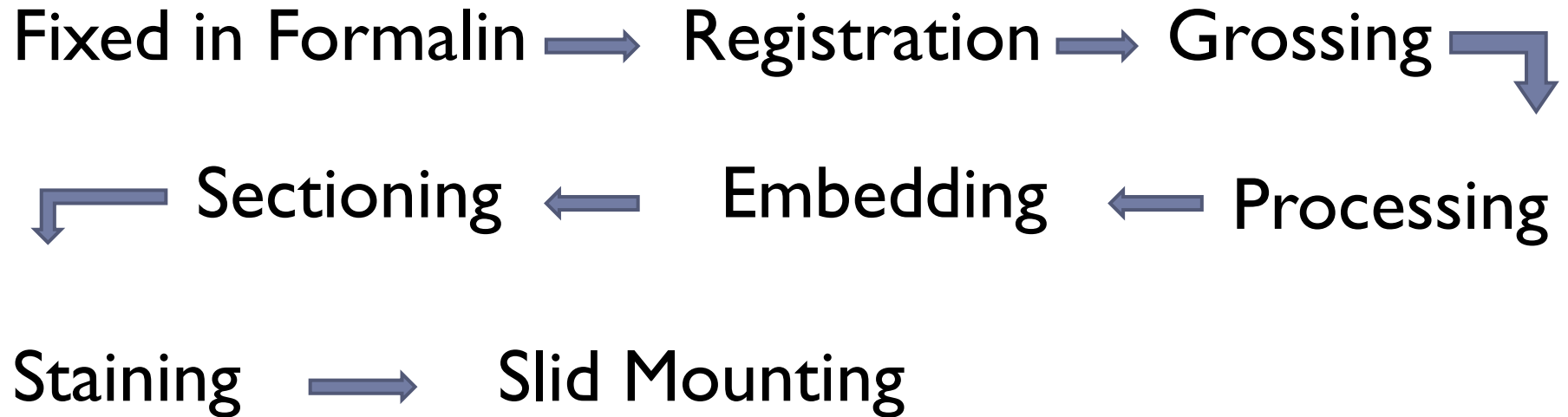


Tissue on arrival

Fresh tissue → Registration → Frozen section → Result



Fixed tissue



Registration

- Each patient should have unique Medical file number

Grossing

- Each specimen need to be descried
- Taking representative part of the specimen

Processing

- Dehydration (Removal of Water), Clearing (Removal of Alcohol, Infiltration (Interpenetration)



Embedding

- Paraffin Wax
- Others

Sectioning

- Trimming the block, cooling
- Cutting, ribbon

Staining

- Hematoxylin (Basic dye) and Eosin (Acidic dye)
- Others

Cover slipping

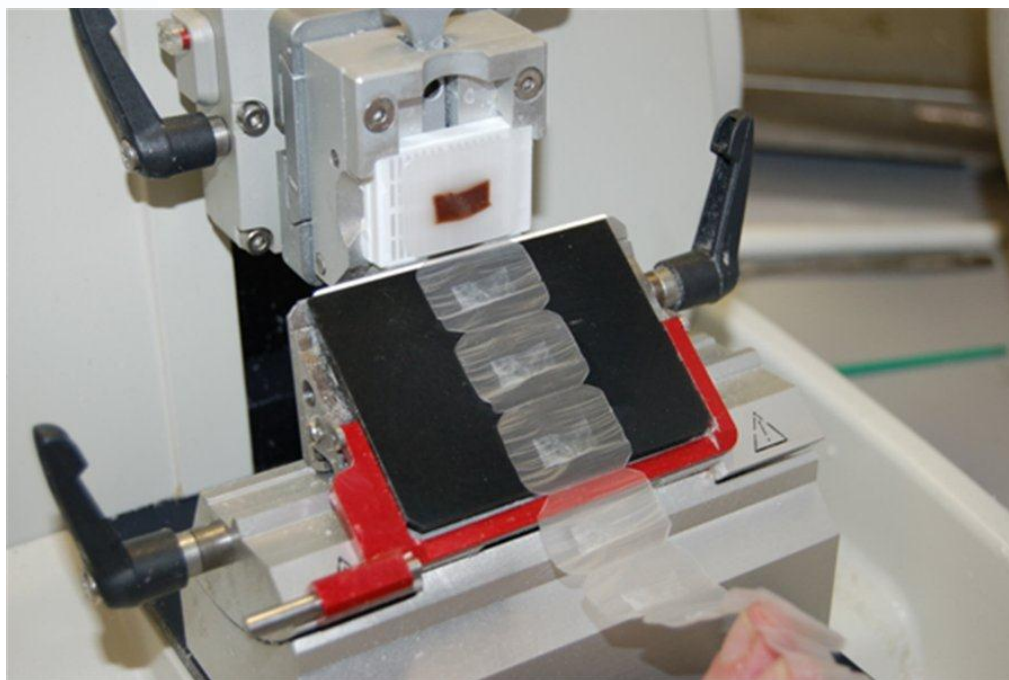
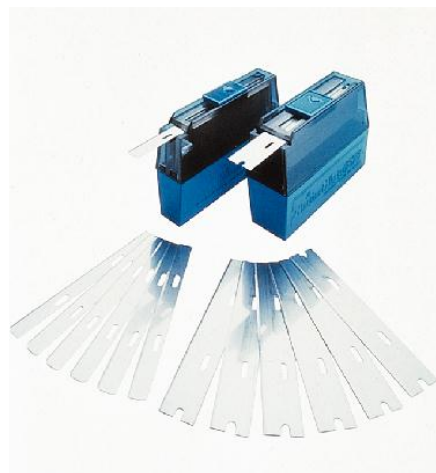
- Mounting Media, DPX
- Xylene



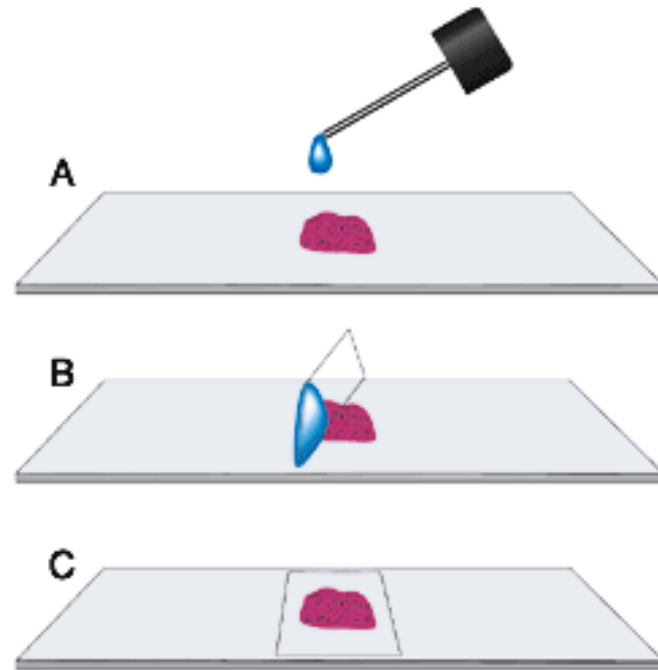












<http://library.med.utah.edu/WebPath/HISTHTML/HISTOTCH/HISTOTCH.html>

