

# ***Basic principals:***

**Spring in Knoxville**

**4. Curing!!**



# Workshop in Murcia, Spain



# Basic principals of Plastination:

- Routine silicone procedures:
  1. Specimen preparation
  - 2. Dehydration**
  3. Impregnation
  - 4. \*Curing/hardening**

## 4. Curing of Plastinated specimens:

- a. Hardening liquid silicone Impregnation mixture within the specimen!!
- b. Cross-linker - S6

*Camel liver:*



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*Camel liver:*

## **Curing:**

**Wet slippery silicone impregnated specimens are:**

- **Drained of excess polymer**
- **Wiped of excess polymer**
- **Exposed to curing agent/S6**



Wet to dry

# Curing/hardening:

- Drain minimum of 1 week
- Better to drain longer
- Place specimen in enclosed chamber
- Small quantity of S6/curing agent and volatilize for 10 minutes.

# **Curing/hardening:**

- **Check curing specimen before you go home**
- **Lie on absorbent toweling**
- **Check for fluid/runs/drips in AM & manicure**
- **Volatilized S6 for 10 minutes and check before you go home**

# Curing/hardening:

- **Check daily and manicure and volatilize as needed**
- \* **The longer the specimens lies before exposure to S6, the shorter the exposure time to S6 and likely a more flexible specimen.**

## **Dilate - Hollow organs with air:**

Just as in specimen preparation:  
Dilatation before and during  
curing is important for **Hollow  
organs:**

- **Lungs**
- **Gastrointestinal**
- **Reproductive organs**

# ***Dilate hollow organs with air***



# Ascending colon

No dilation!



# Dilated ascending colon

*Curing:*

Dilatación



No dilation



## Dilate curing:

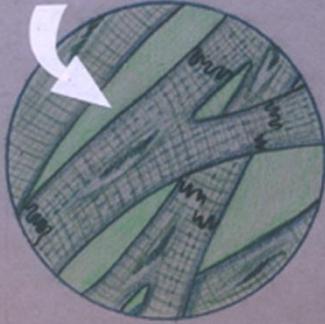
- Start air flow 2 or 3 days post impregnation
- Make sure that organ has returned to room temperature
- Expand organ slowly!
- For prime results - consider allowing air flow for  $\frac{1}{2}$  to 1 year. If necessary volatilize  $\frac{1}{2}$  ml of S6 in the air line to finalize curing.

## Basic principals:

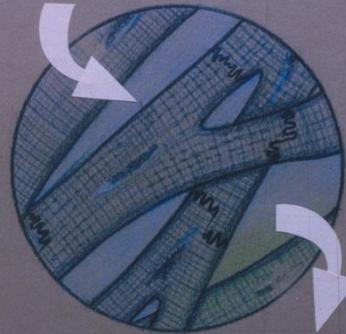
- Specimen preparation
- Dehydration
- **Impregnation**
- **\*Curing/Hardening**

# Plastination

1. Fix



H<sub>2</sub>O

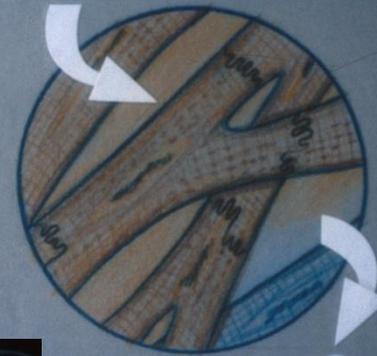


Formaldehyde



2. Dehydrate

Acetone



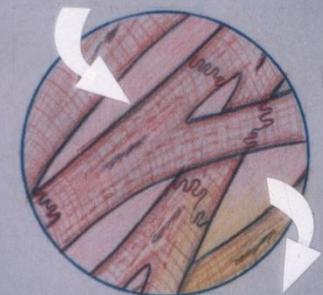
H<sub>2</sub>O

3. Impregnate

4. Cure



Polymer



Acetone

# Heidleberg castle:



*Thanks for your attention!*

