

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:



4. Curing of Plastinated specimens:

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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

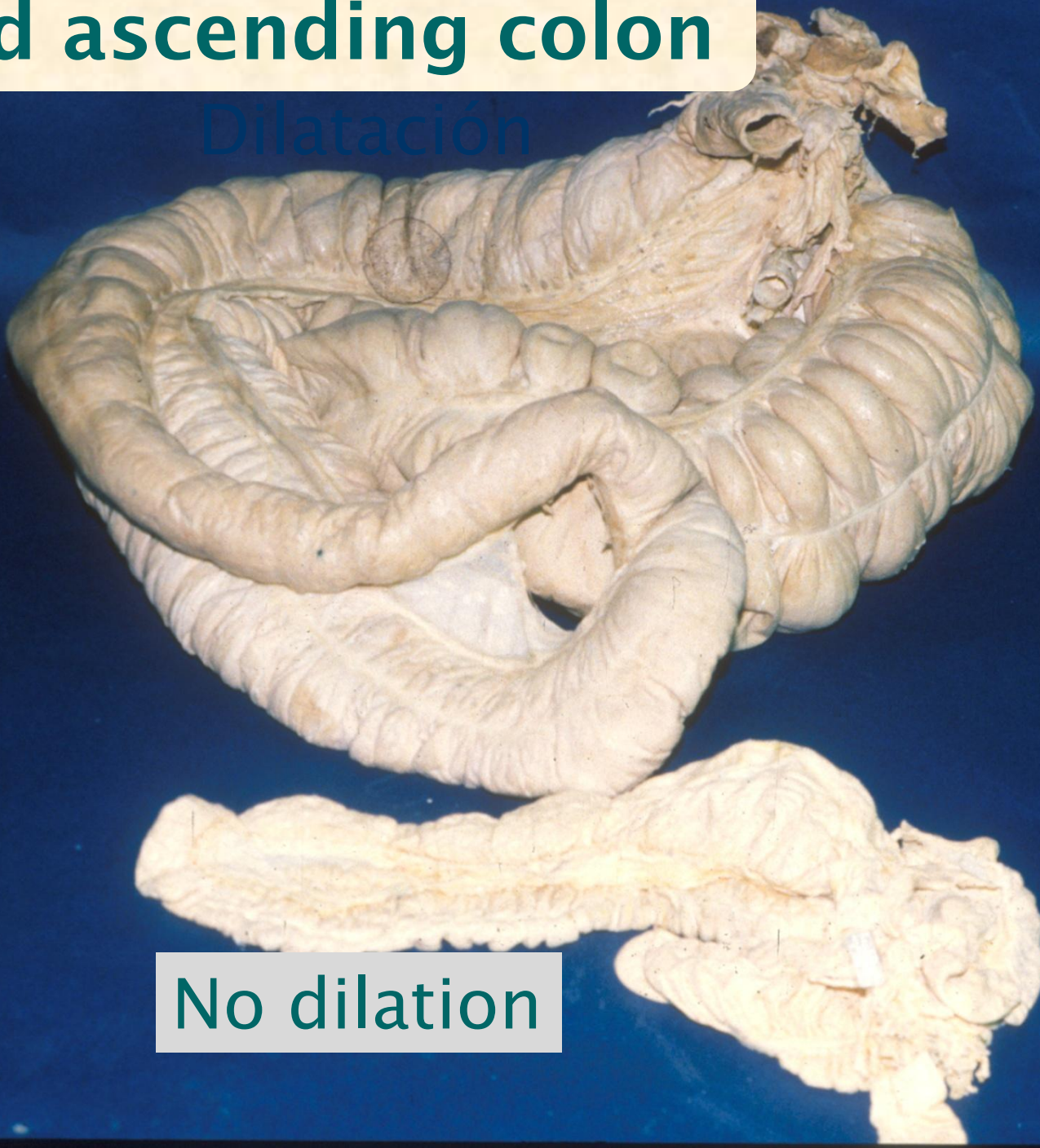
No dilation!



Dilated ascending colon

Curing:

Dilatación



No dilation

Dilate curing:

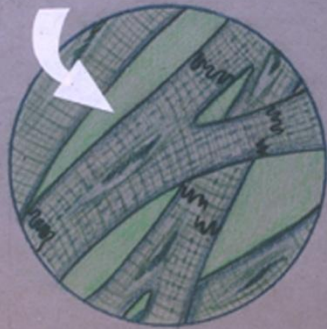
- Start air flow 2 or 3 days post impregnation
- Make sure that organ has returned to room temperature
- Expand organ slowly!
- For prime results - consider allowing air flow for $\frac{1}{2}$ to 1 year. If necessary volatilize $\frac{1}{2}$ ml of S6 in the air line to finalize curing.

Basic principals:

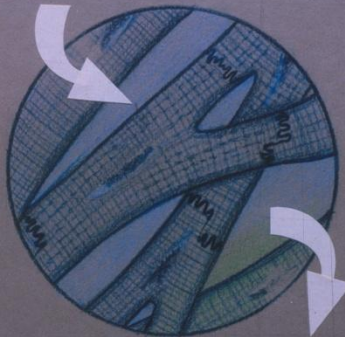
- Specimen preparation
- Dehydration
- Impregnation
- *Curing/Hardening

Plastination

1. Fix



H₂O

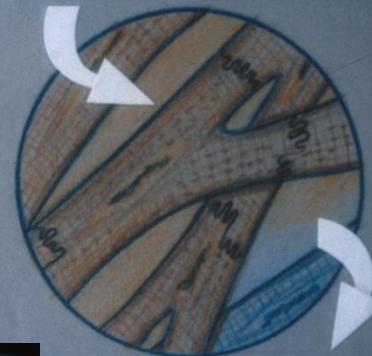


Formaldehyde

2. Dehydrate



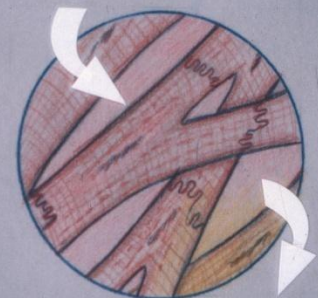
Acetone



H₂O

3. Impregnate

Polymer



Acetone

4. Cure



Heidleberg castle:



Thanks for your attention!

