

# GreenLEP

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La tecnica step by step

Dr. Francesco Varvello



Ospedale Michele e Pietro Ferrero  
Verduno (CN)

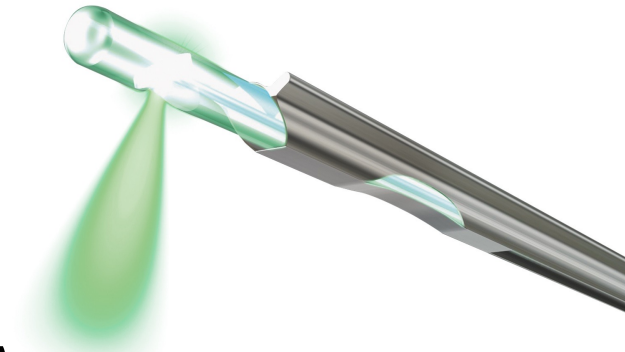


# GreenLEP

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## Caratteristiche

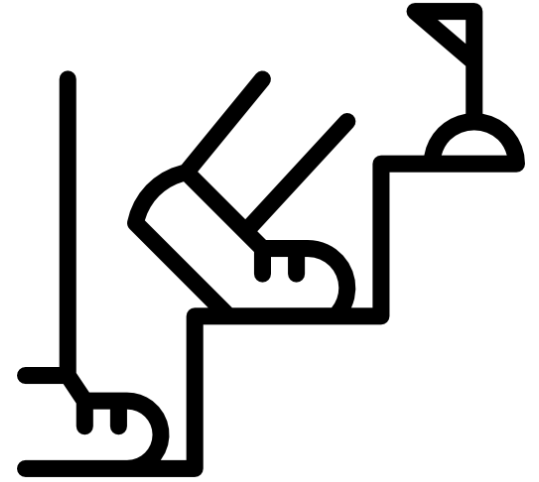
- Enucleazione prevalentemente meccanica
- Fibra 2090 (120 W)
- Funzione coagulo +++ / taglio +
- Bassa quantità di energia (30-50 kJ)
- Ottimo controllo emostatico
- Risultato anatomico



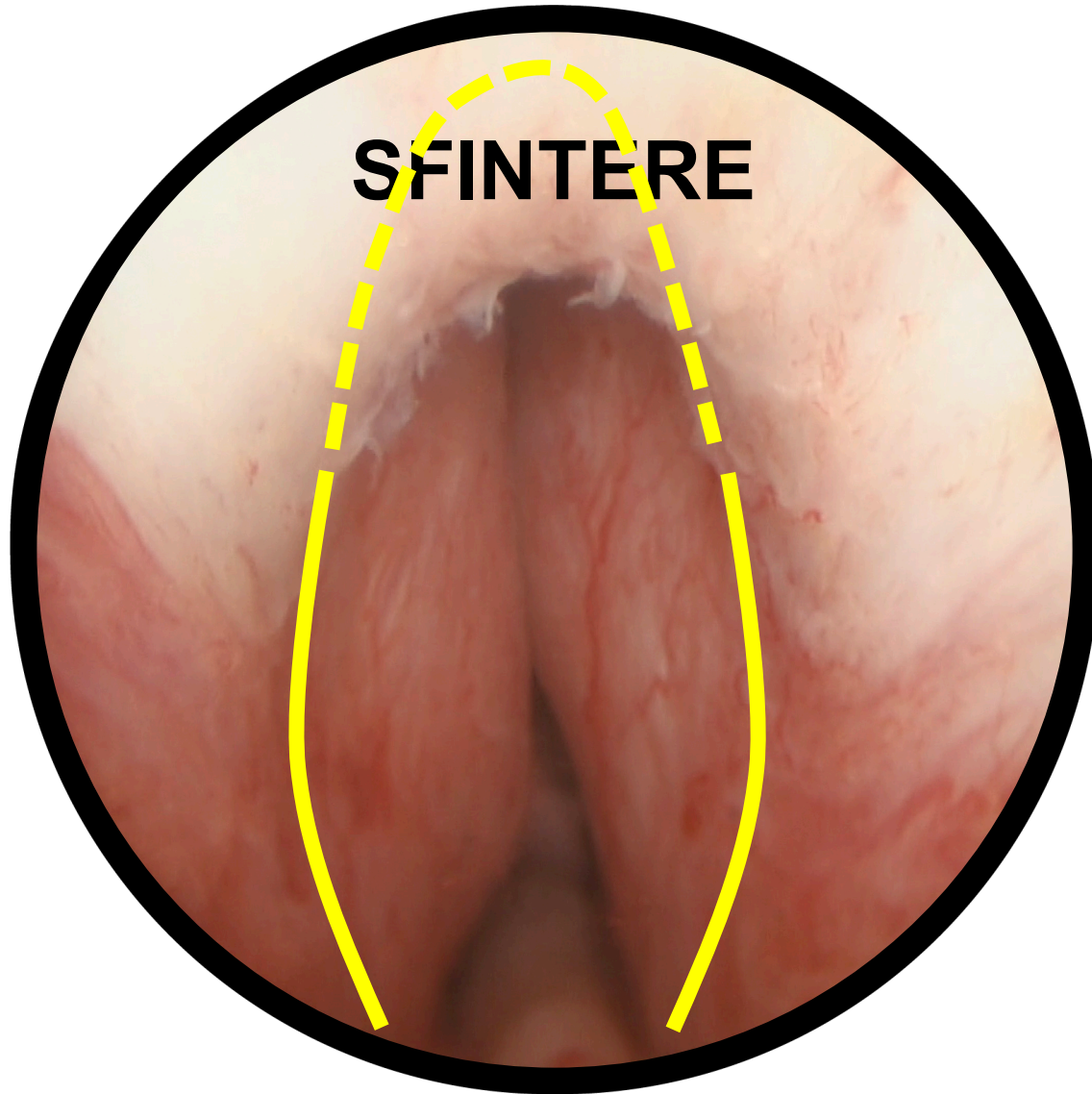
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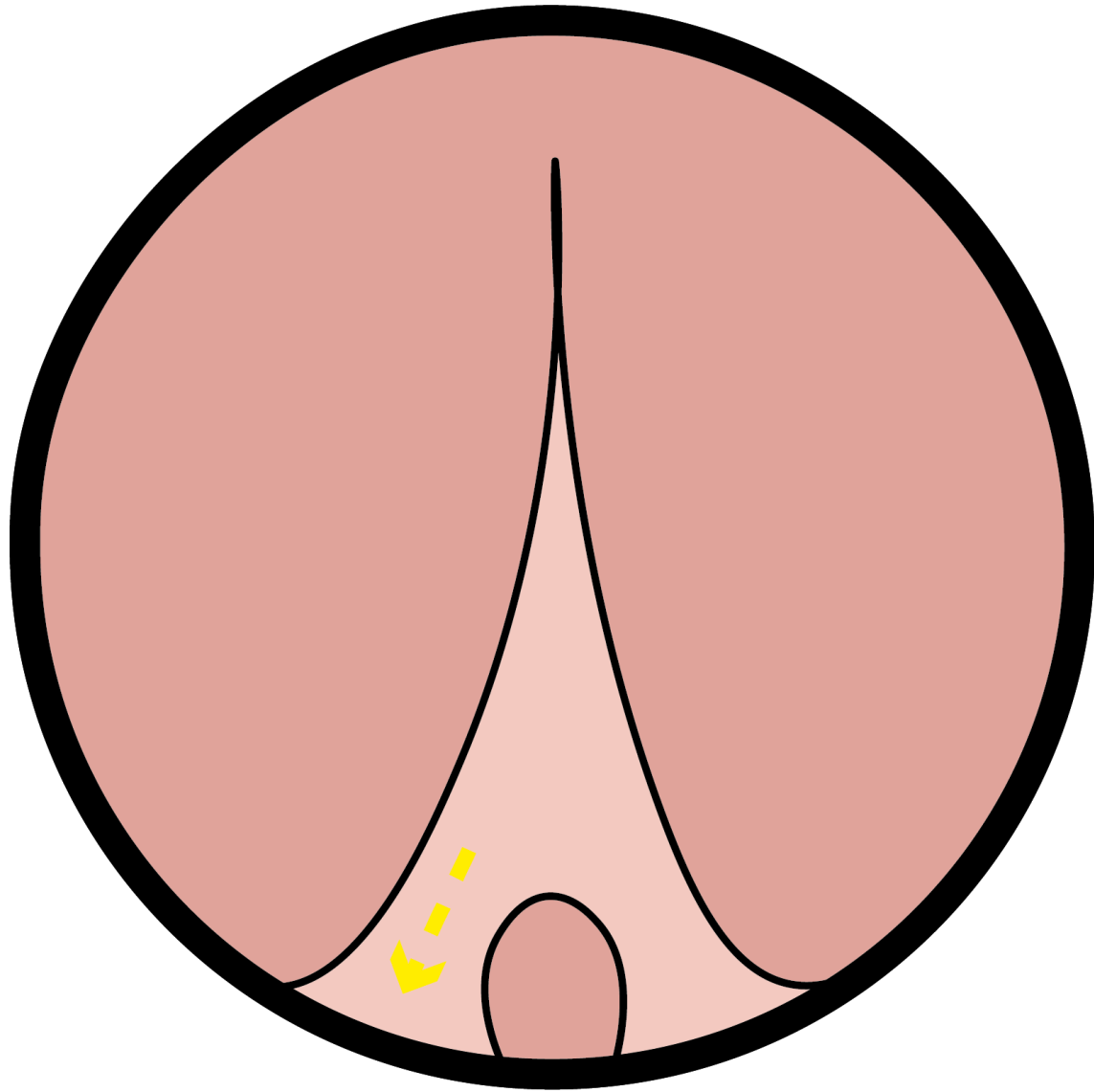
Step by step

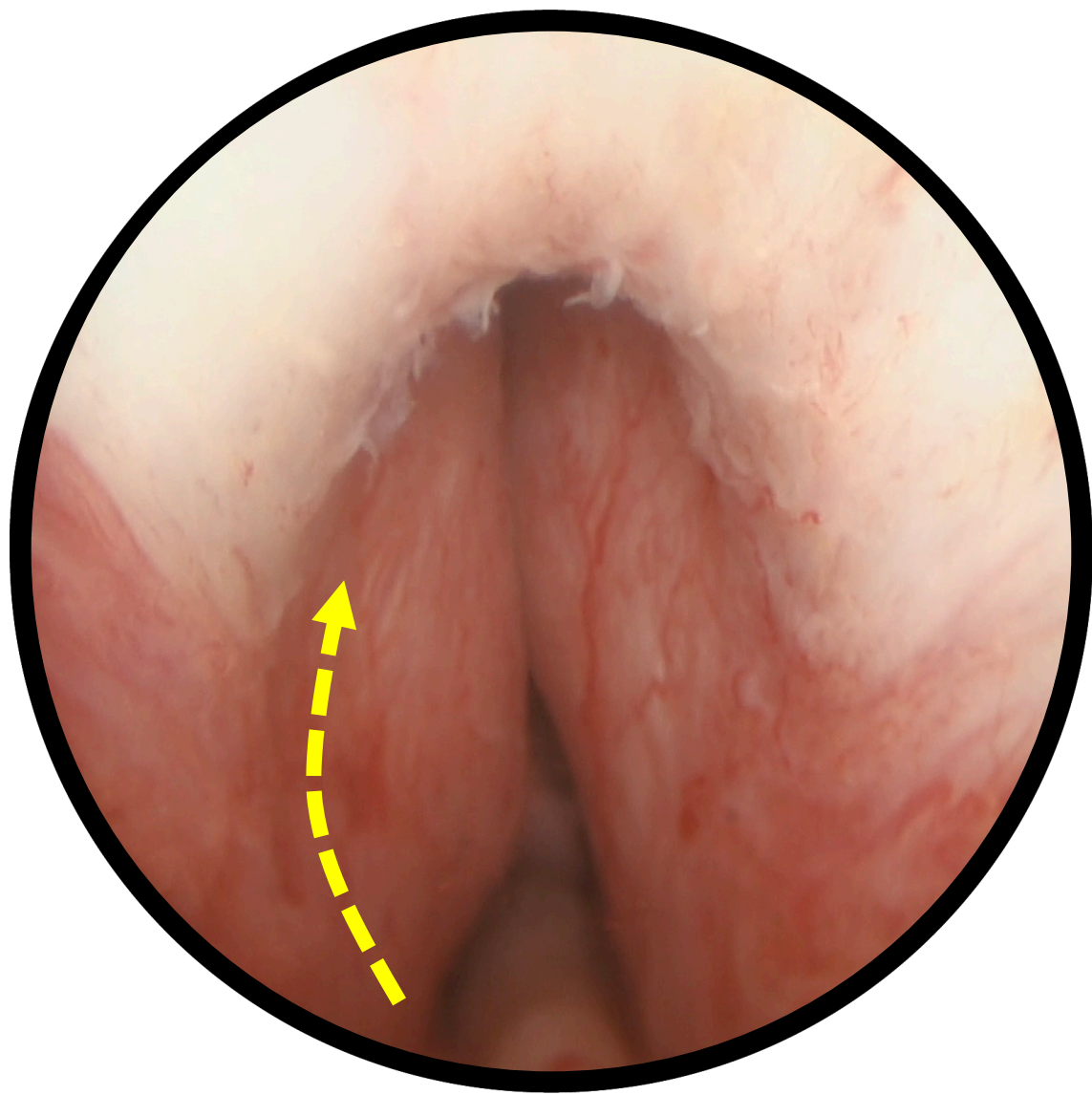


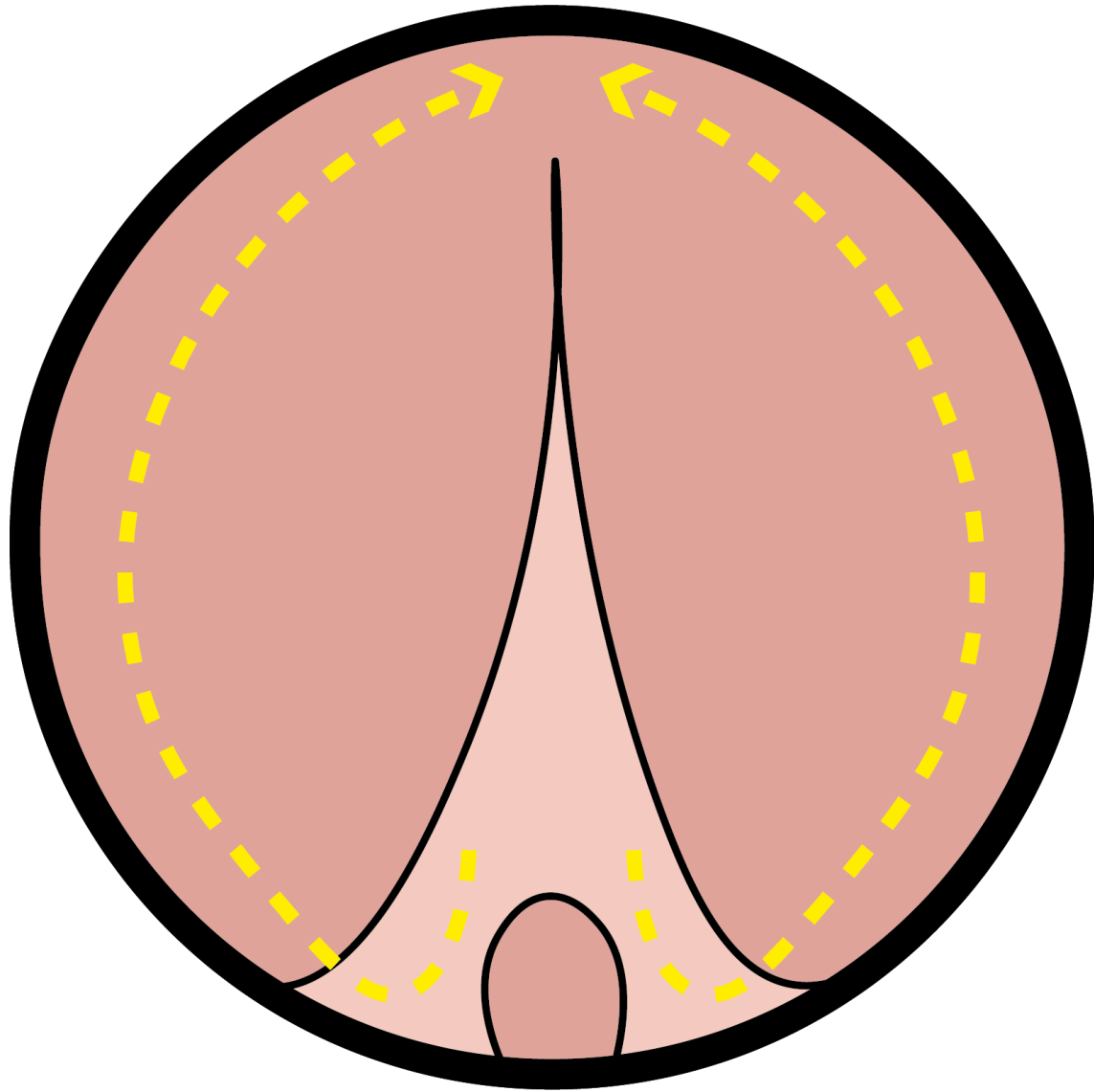
- 1. Separazione apice-sfintere**
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4. Piani laterali
5. Piano posteriore

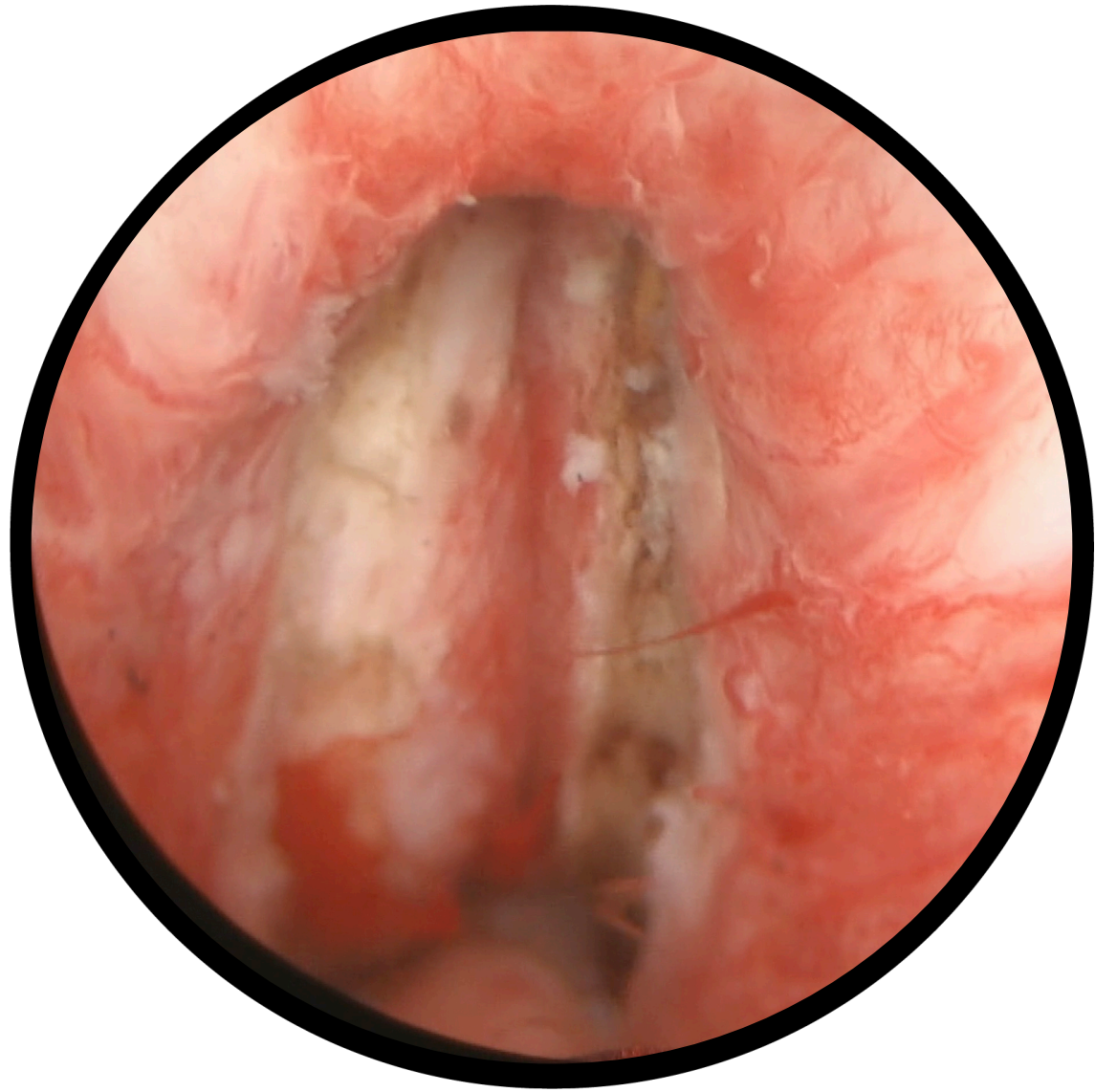


**SFINTERE**

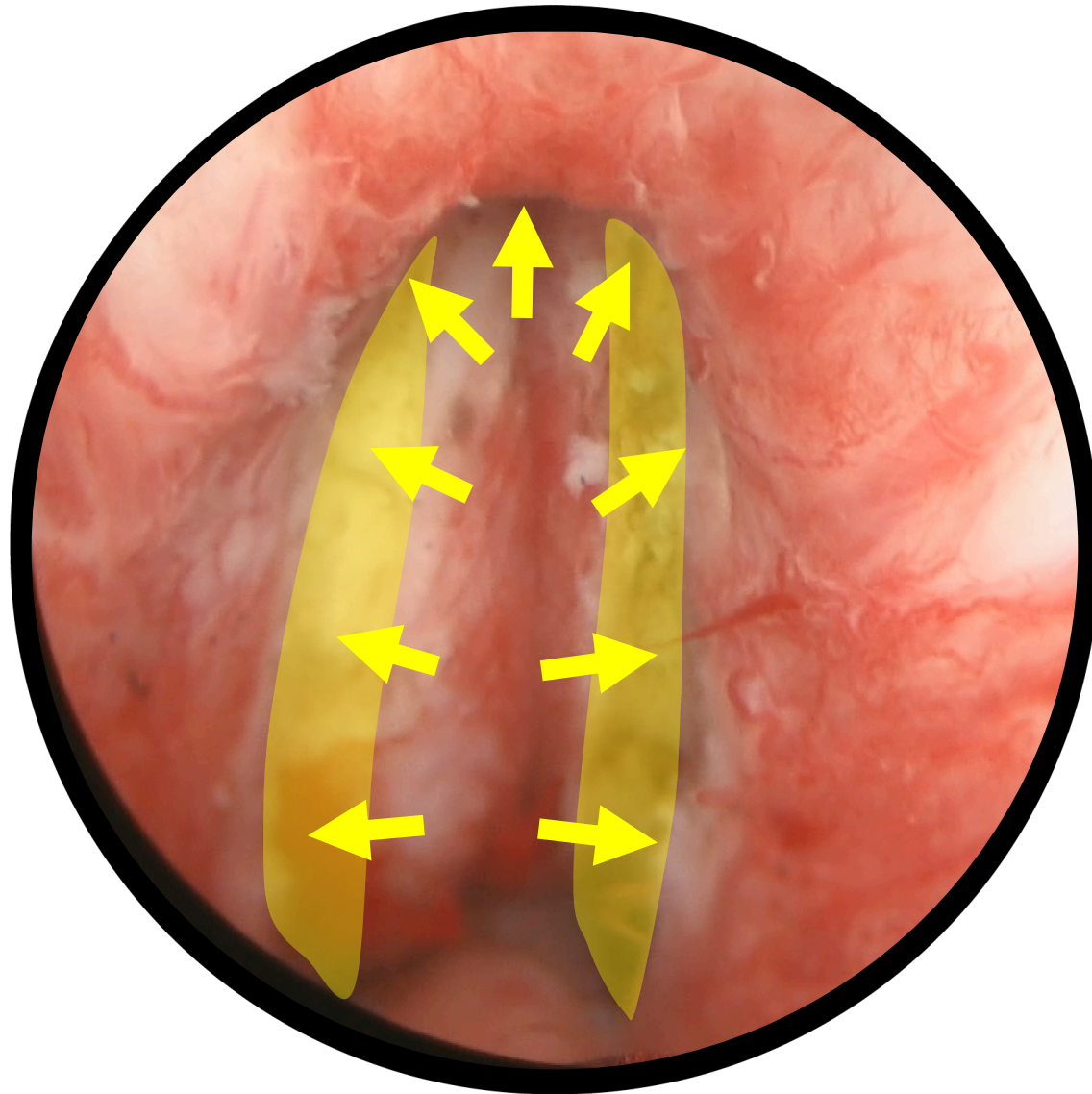








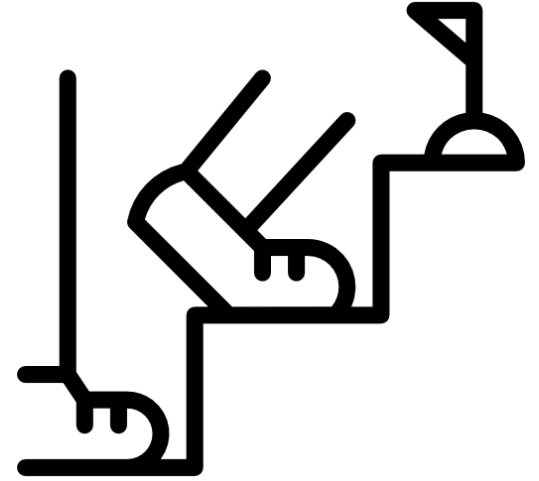




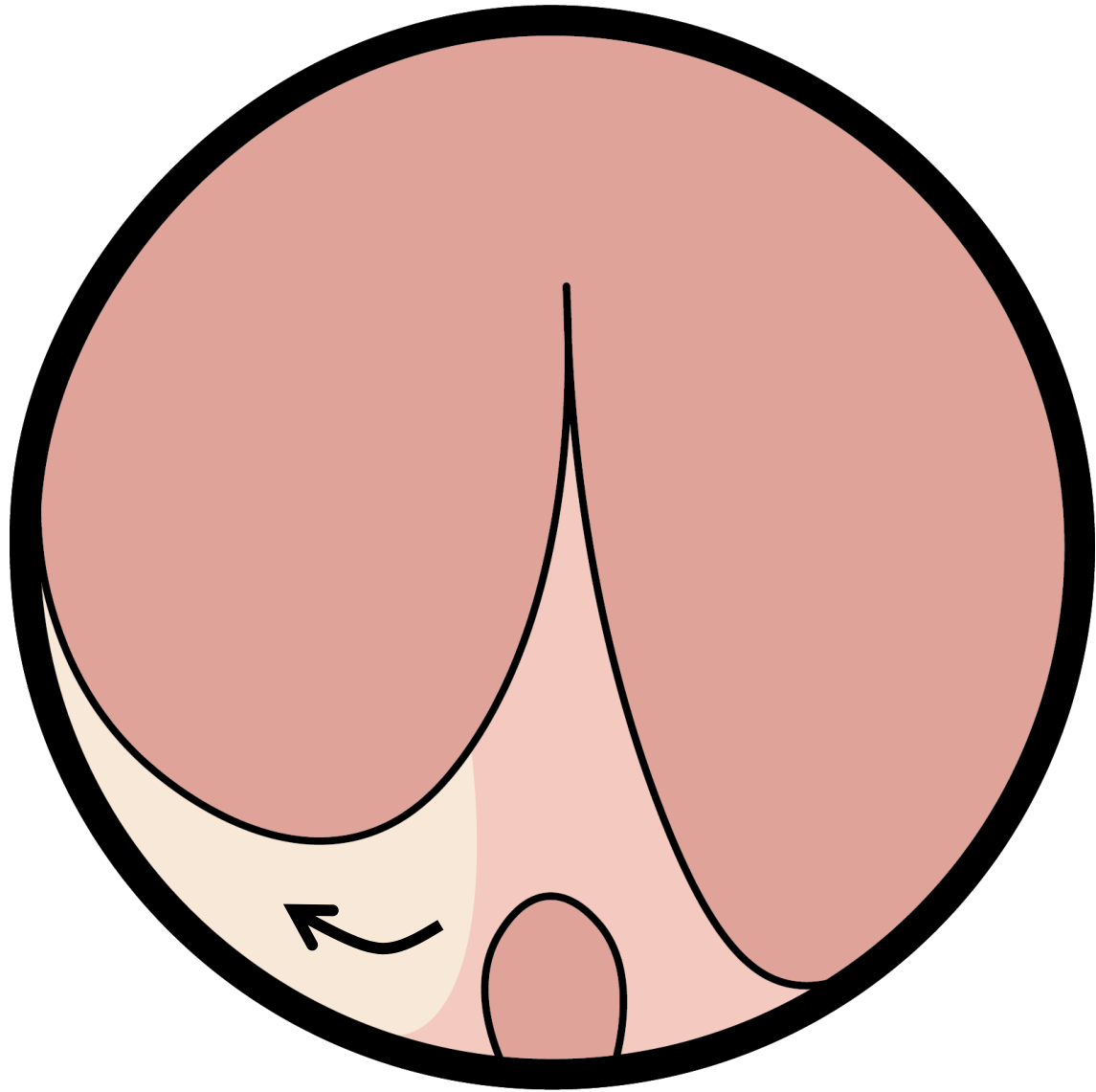
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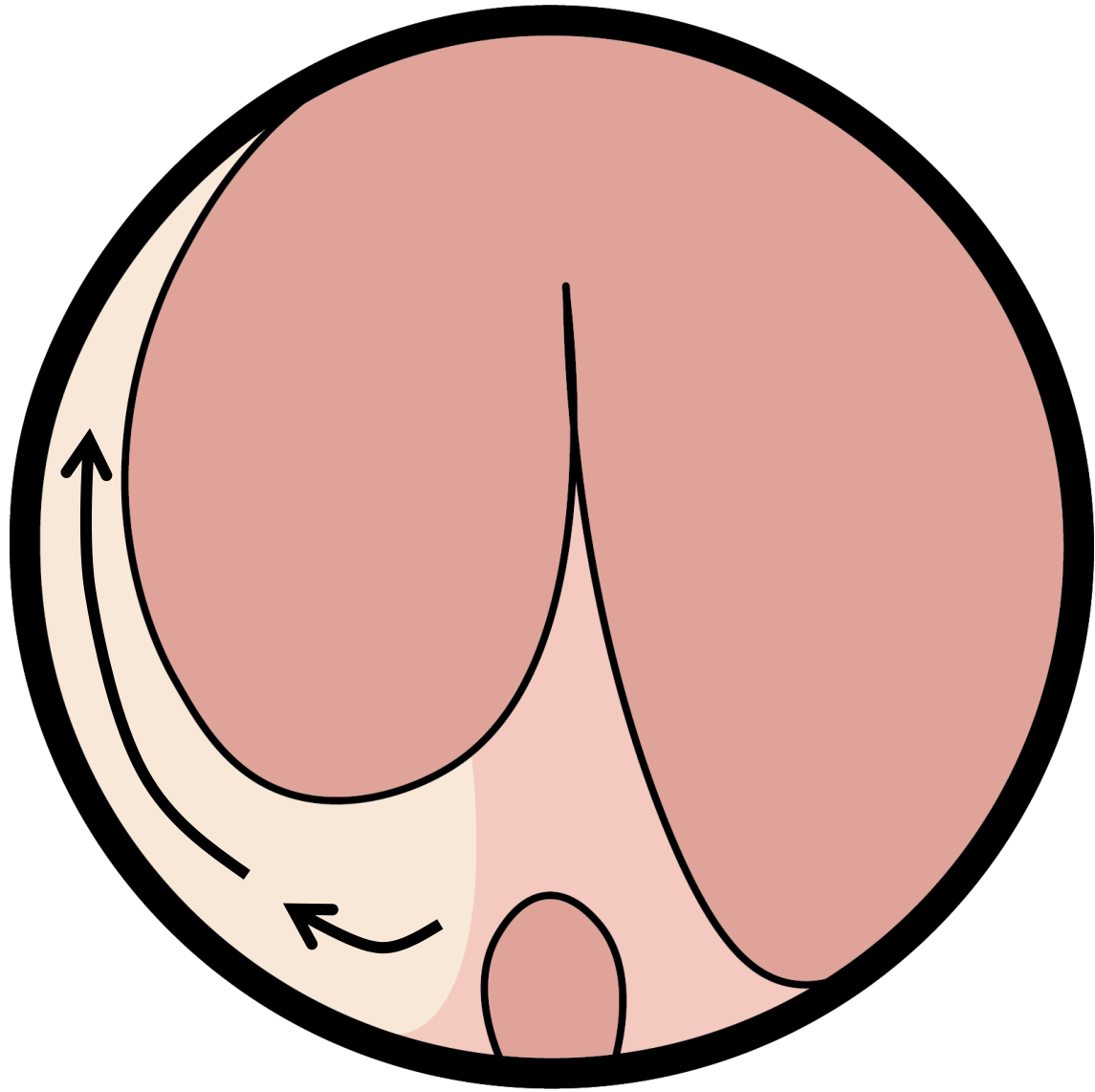
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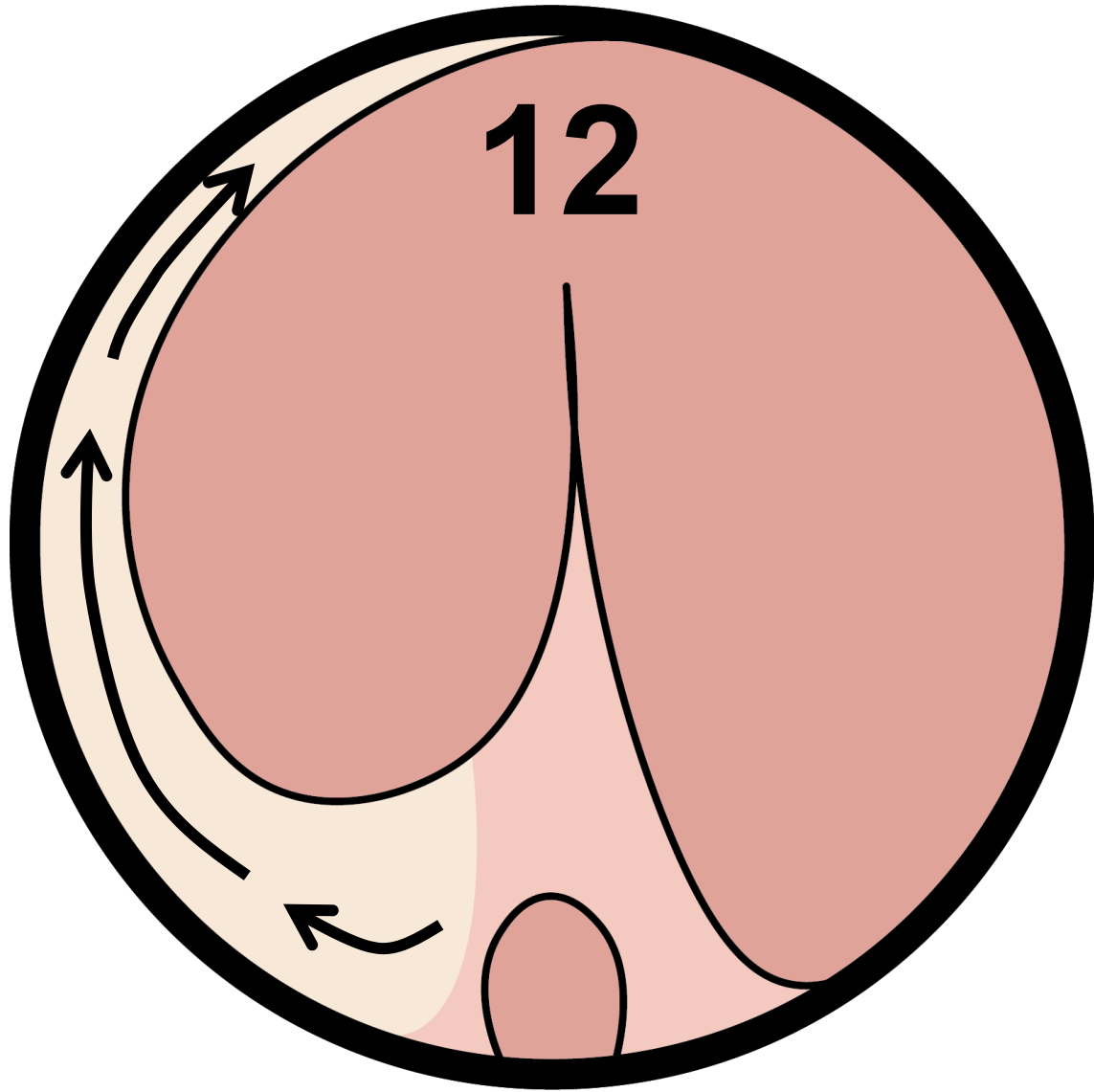
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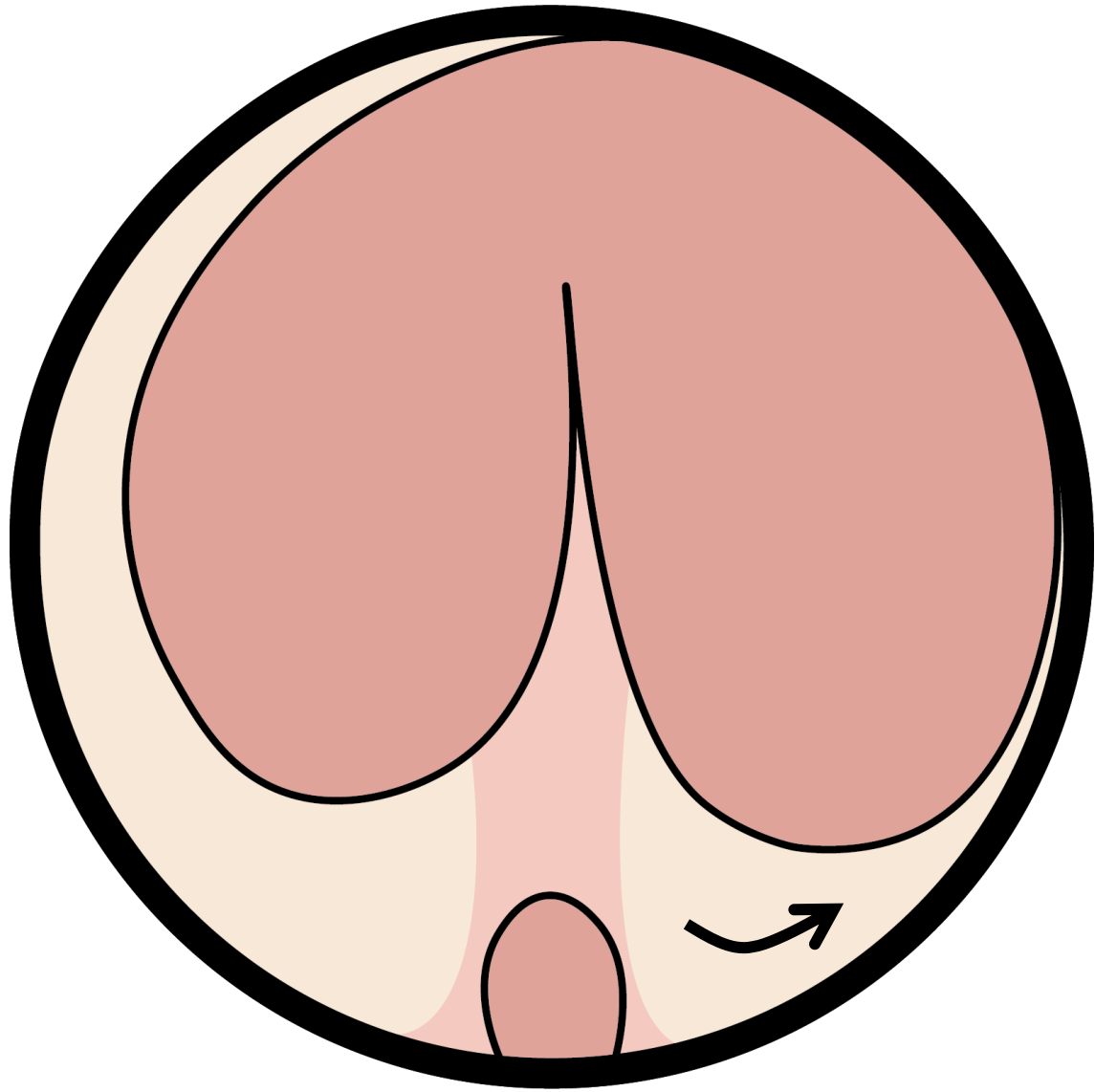
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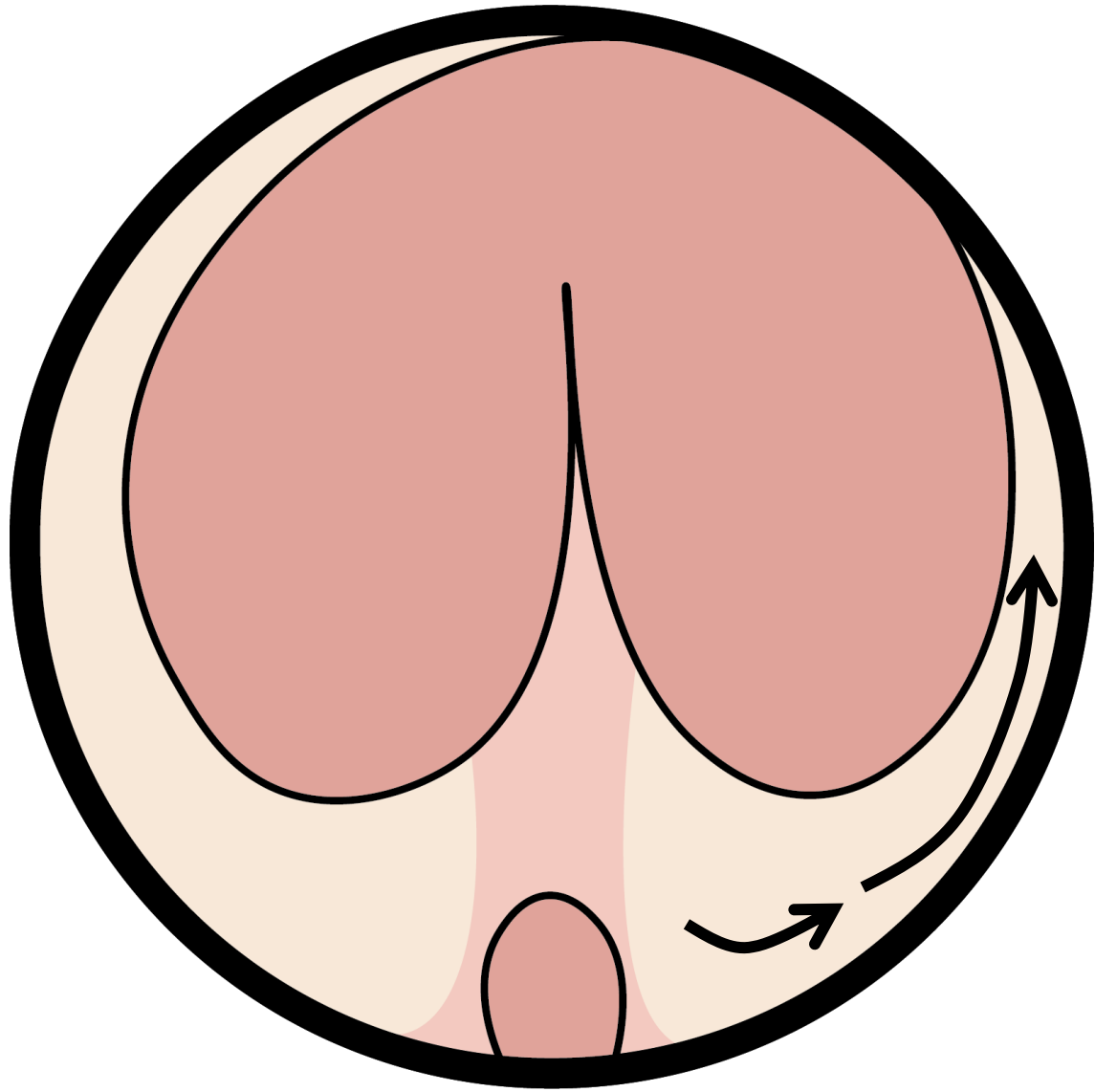


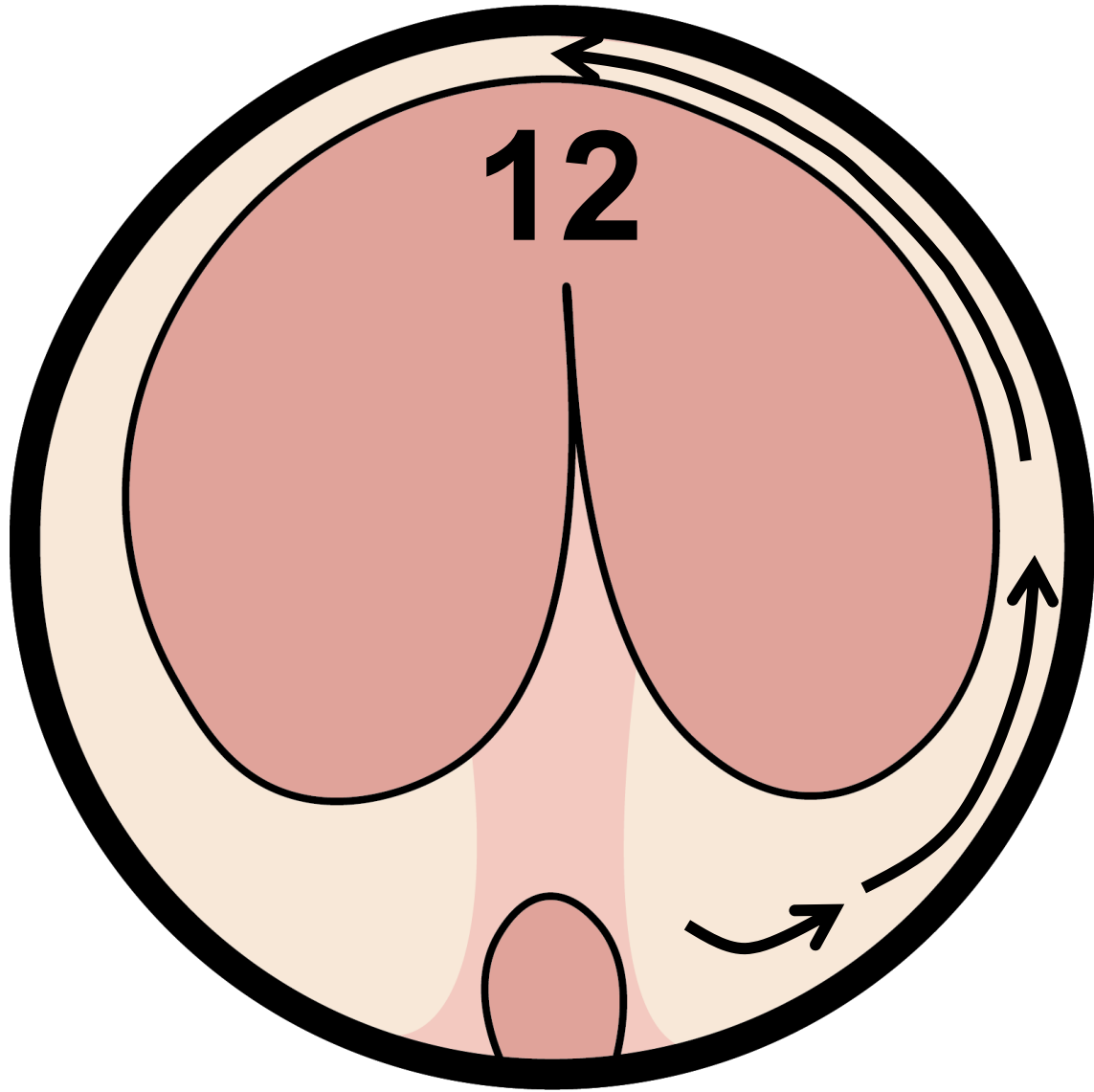




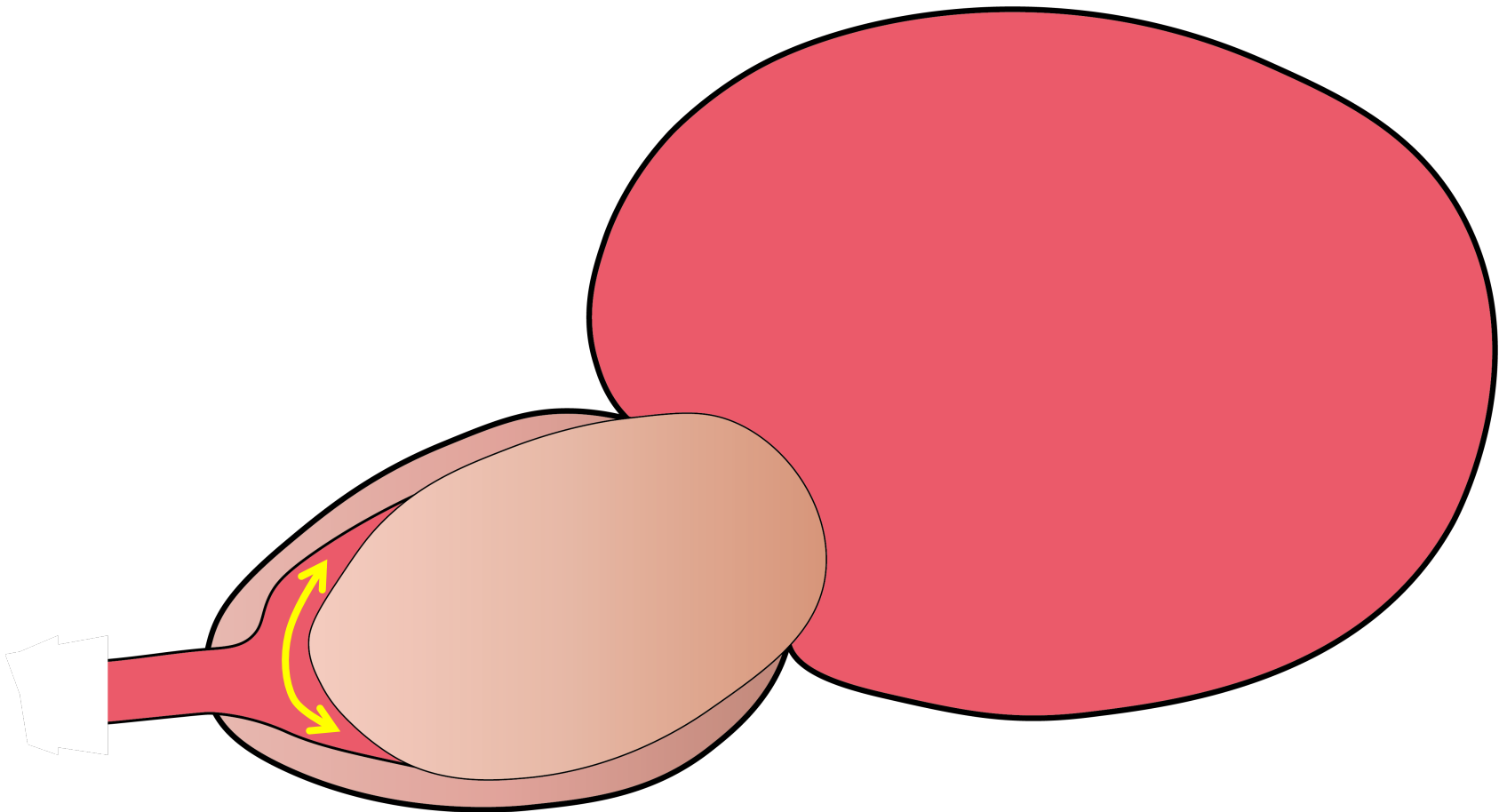
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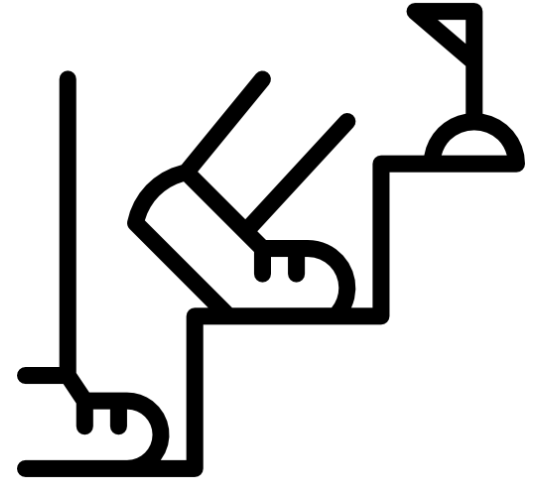




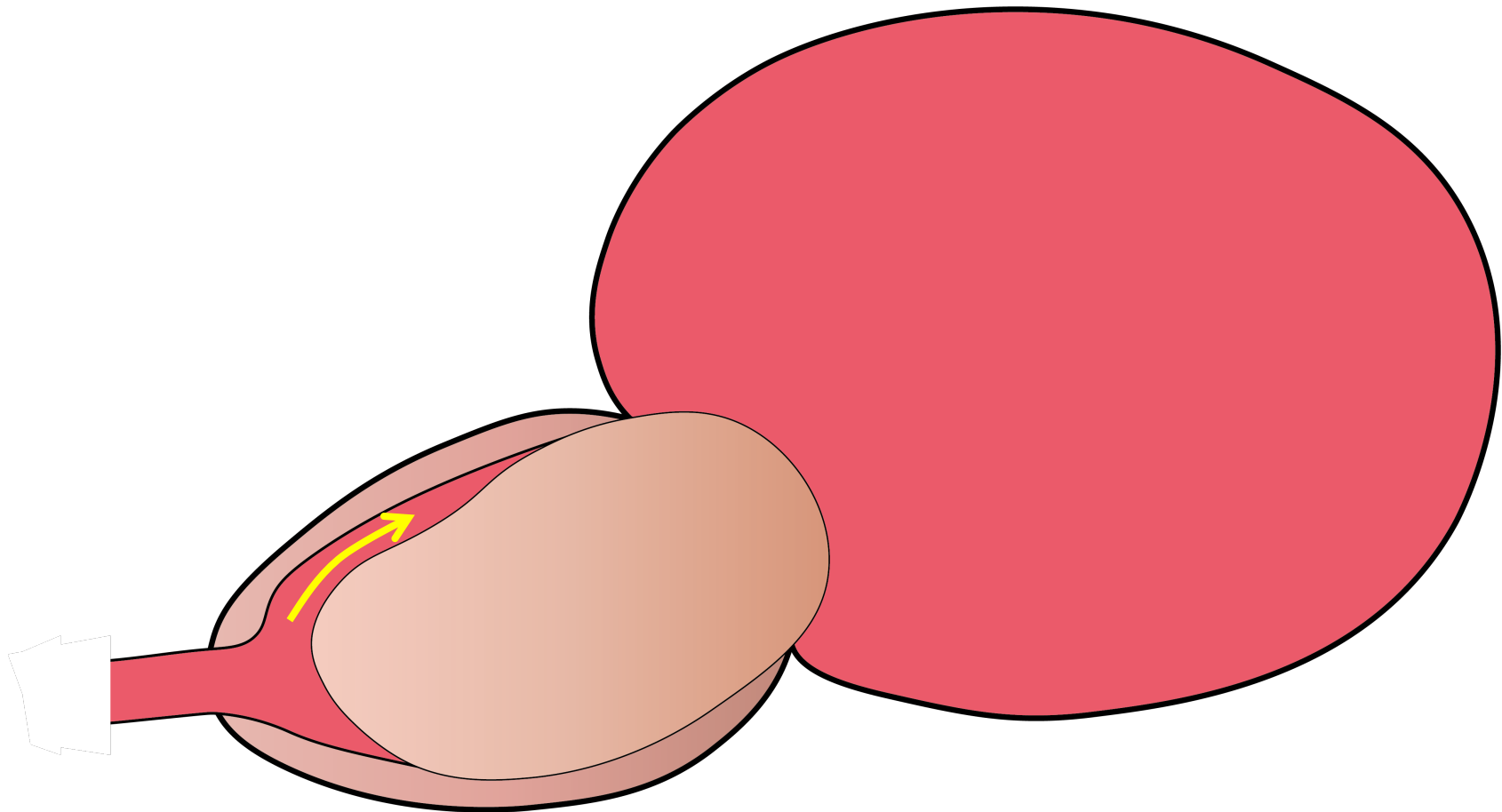
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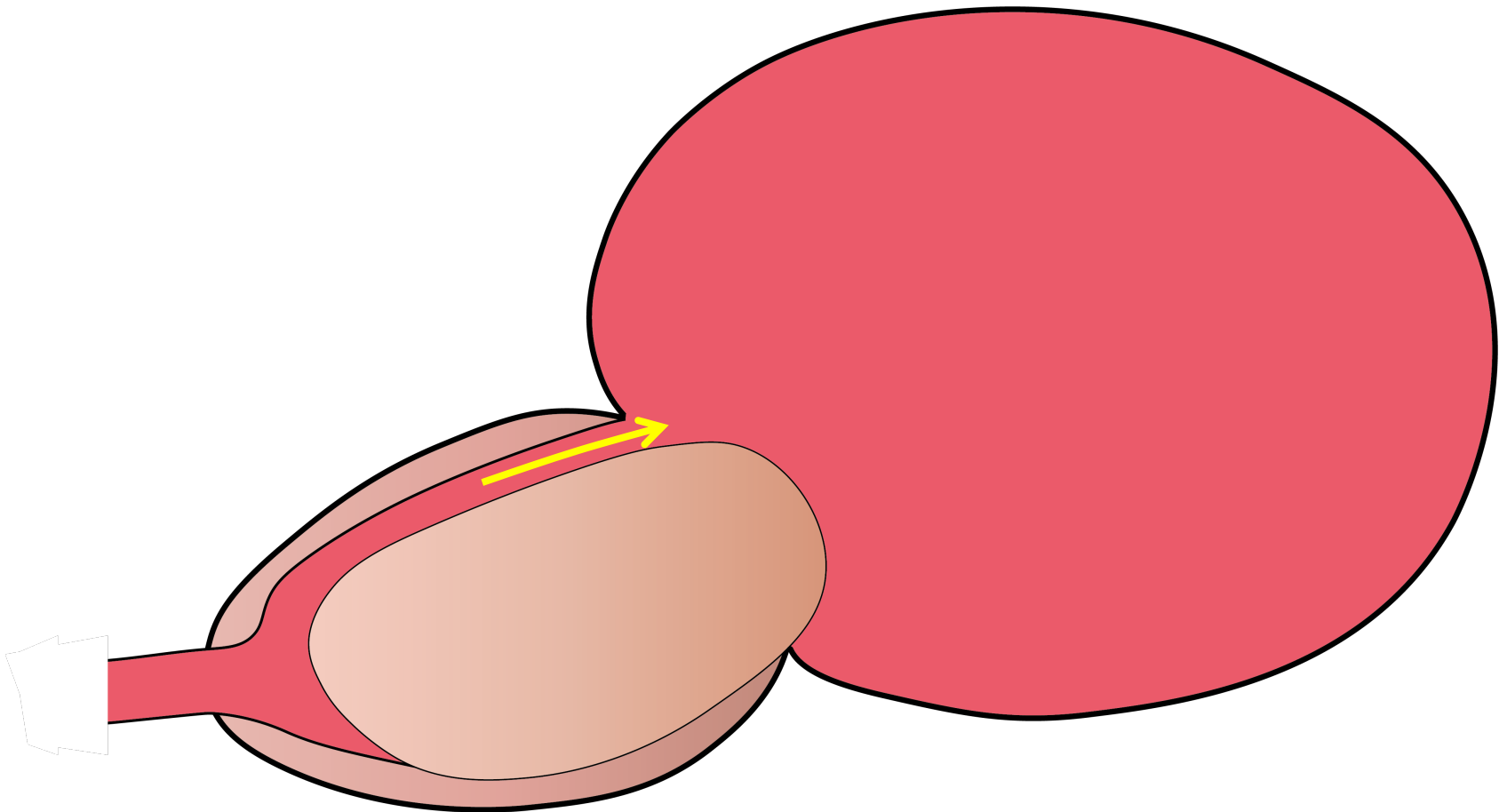
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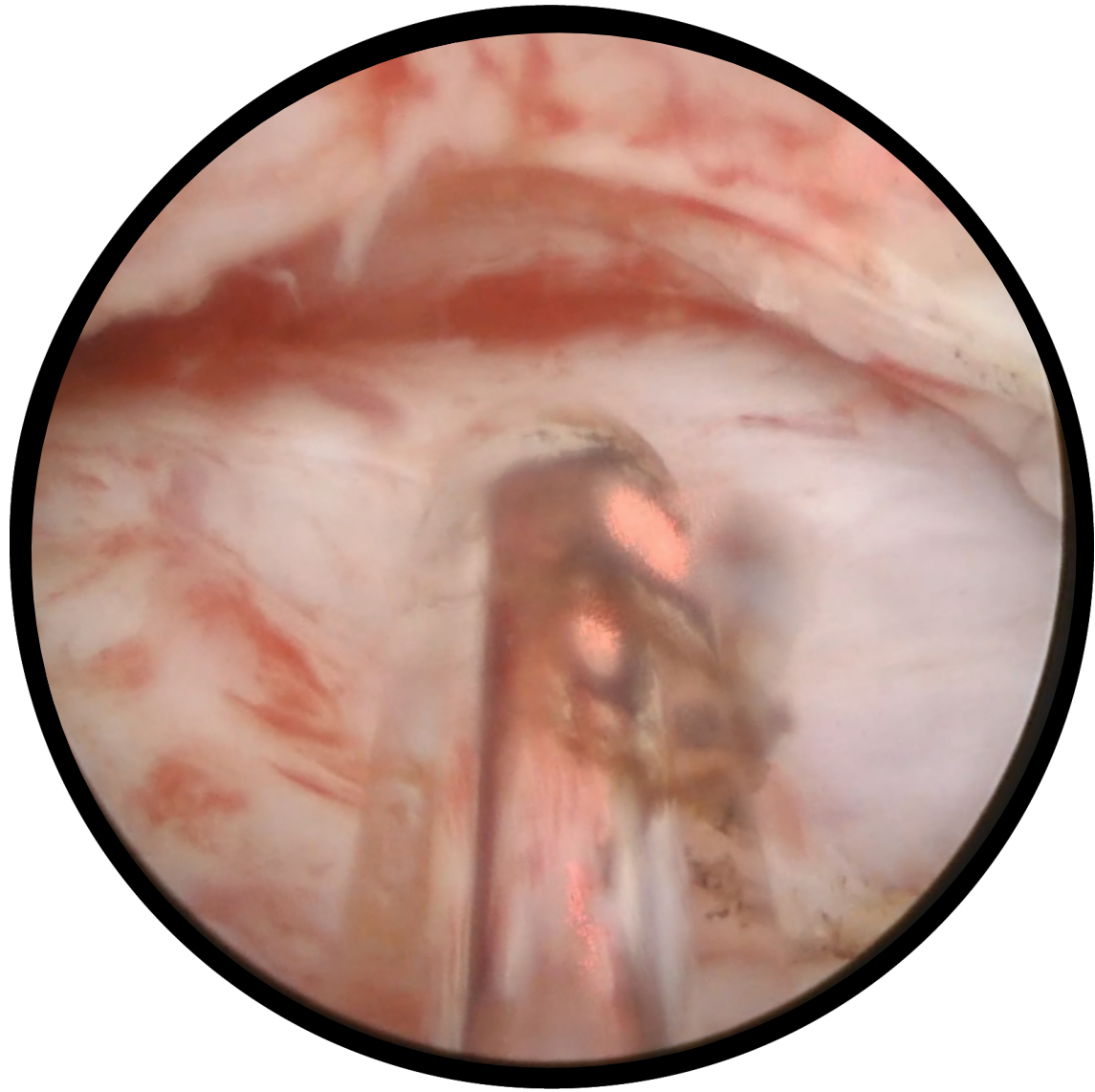
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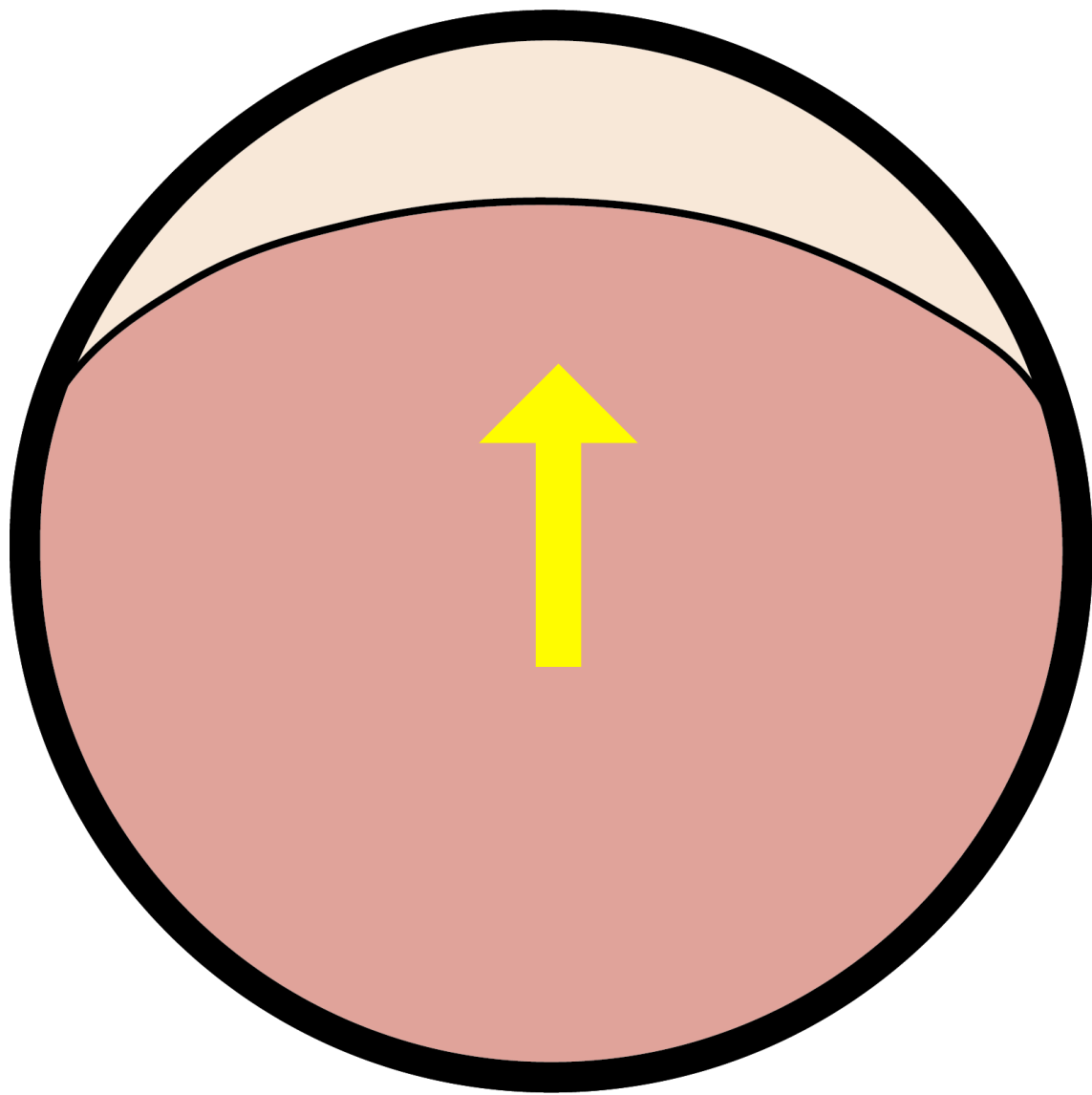


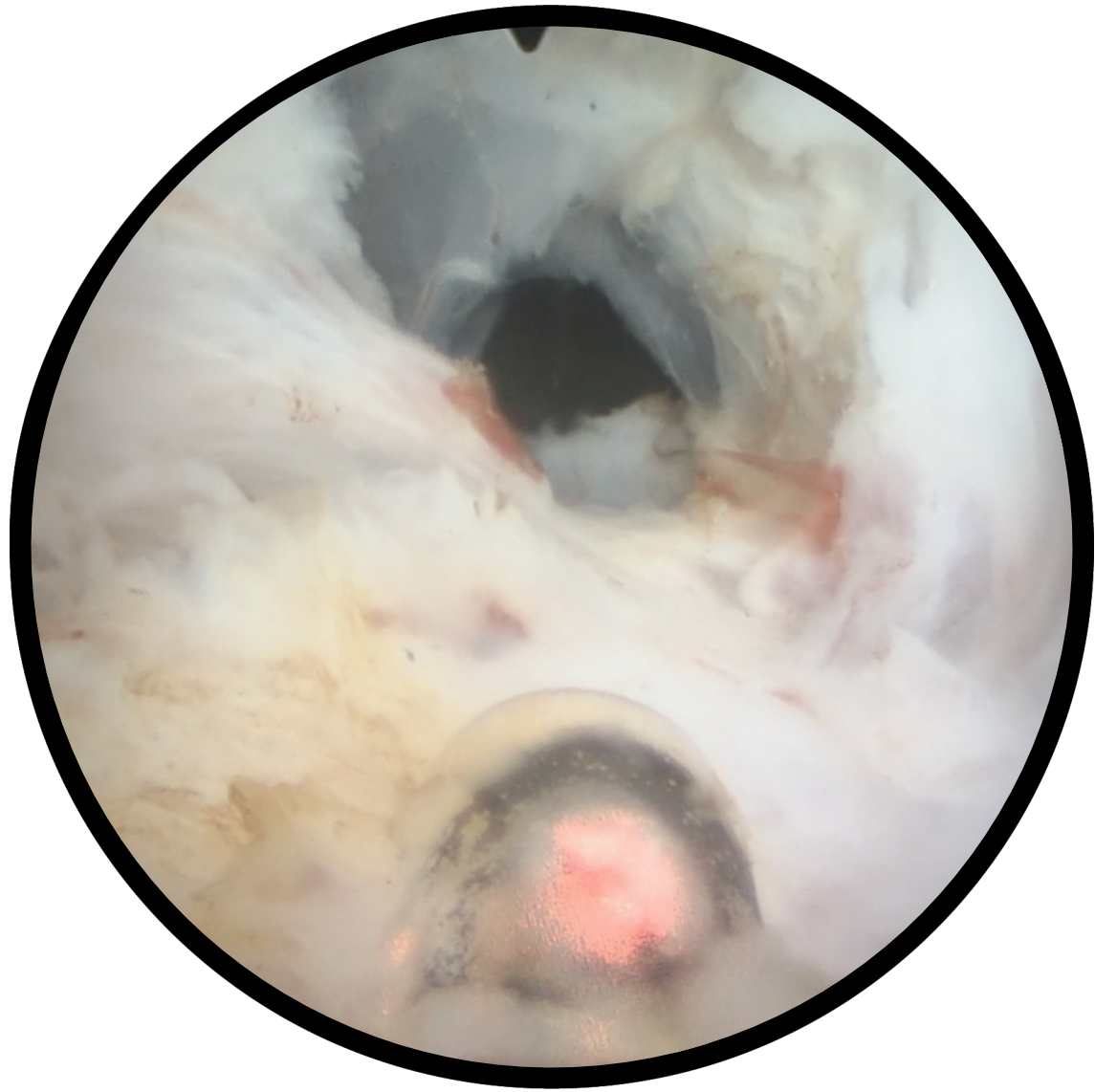
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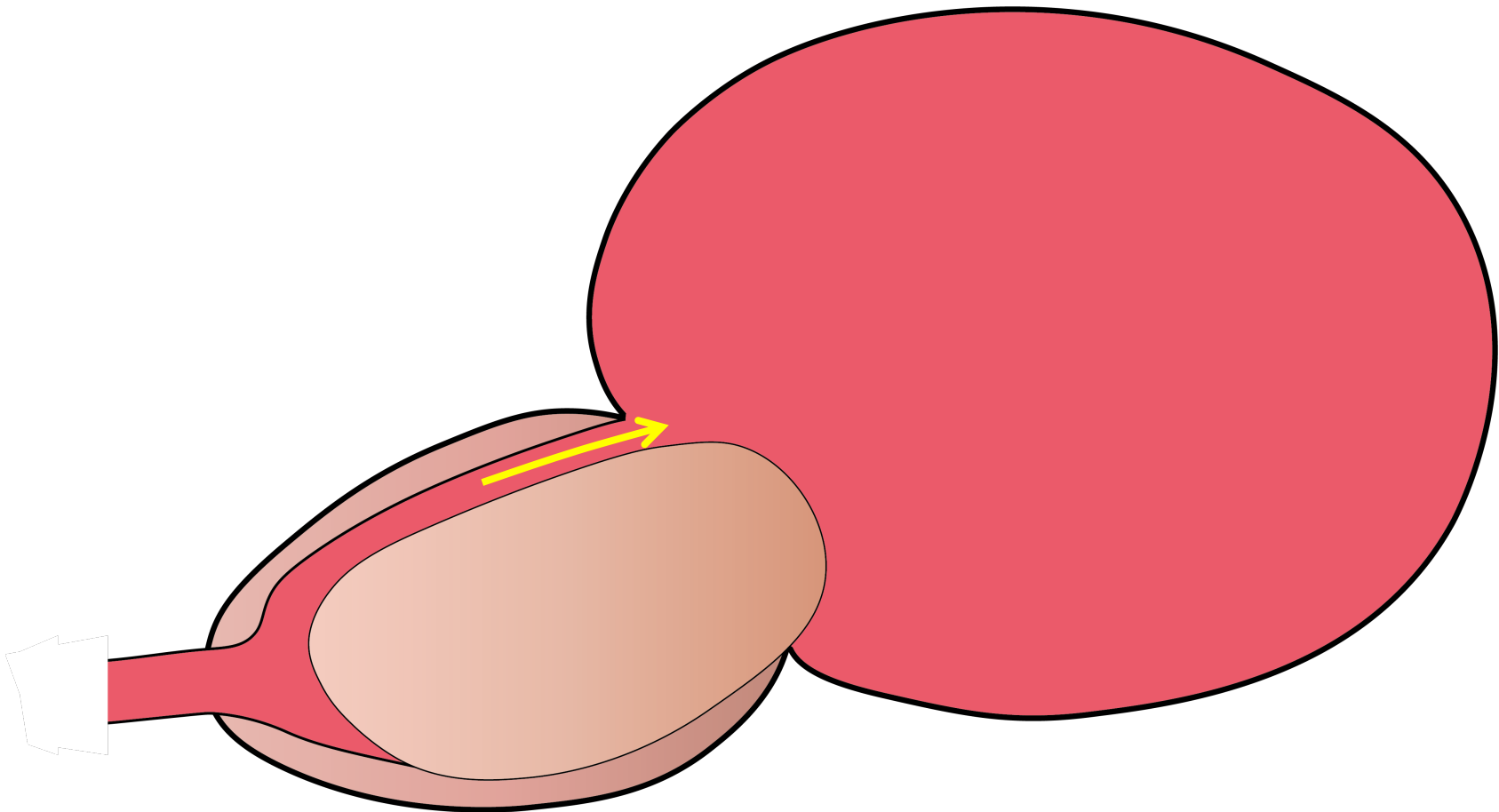






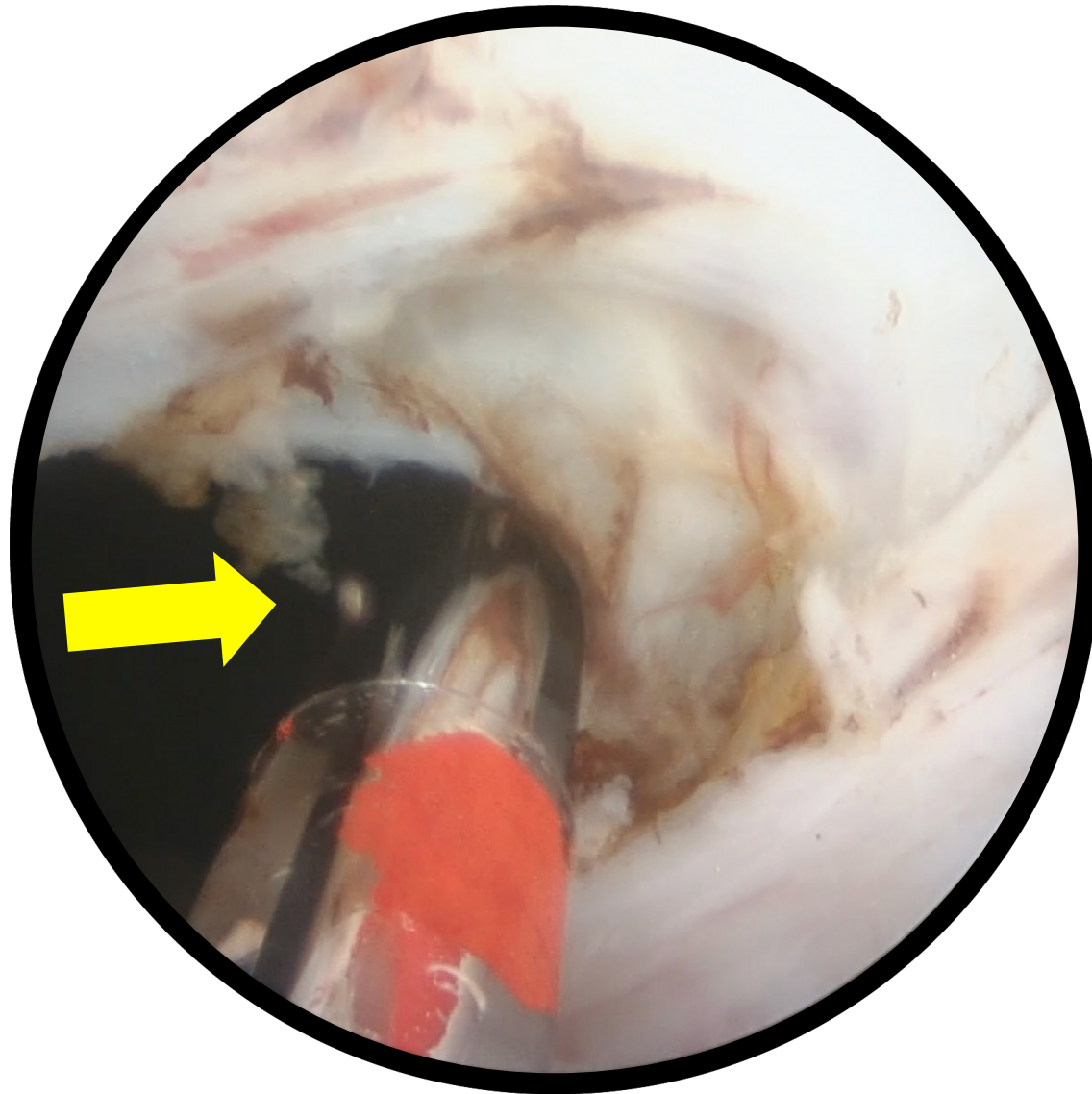


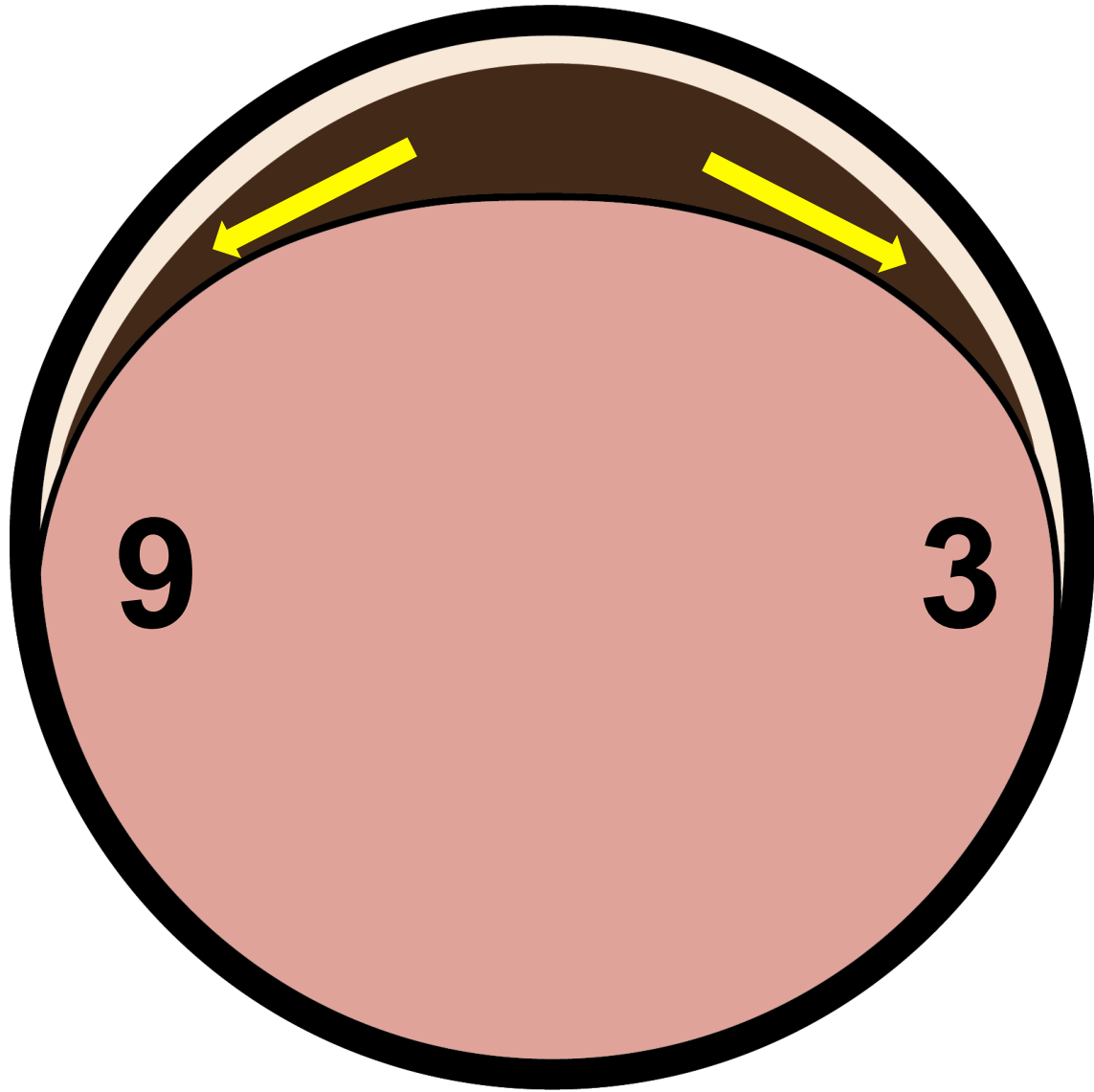








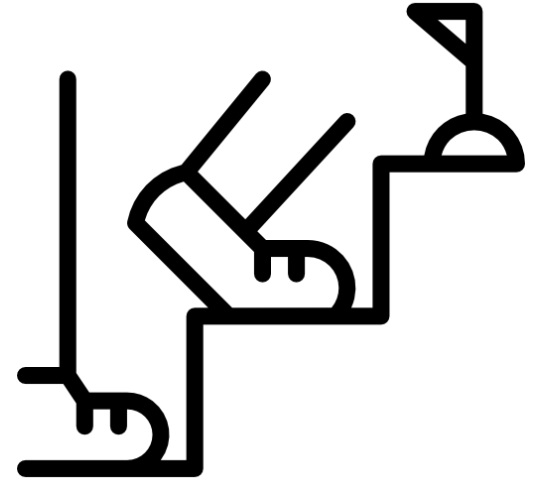




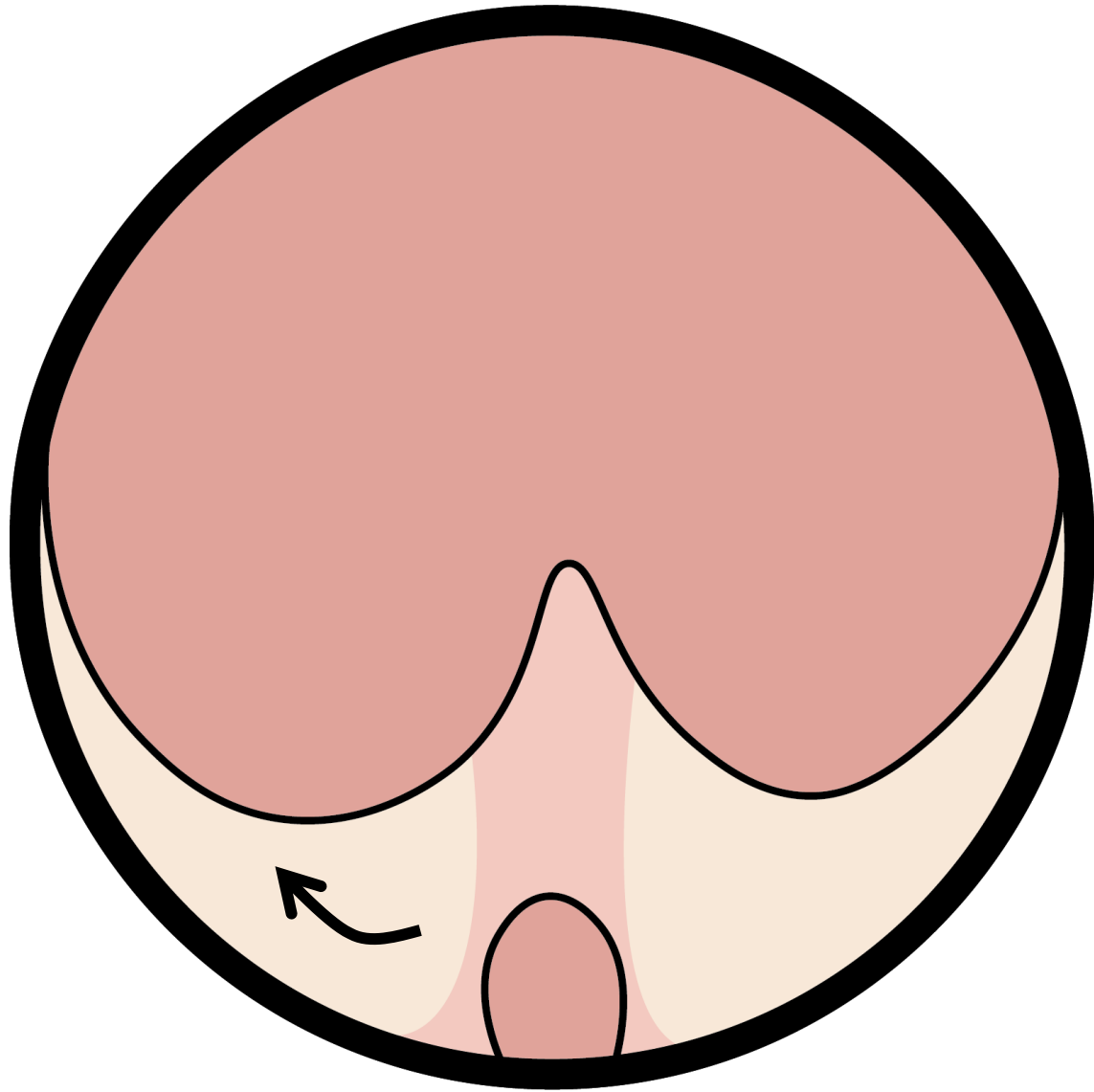
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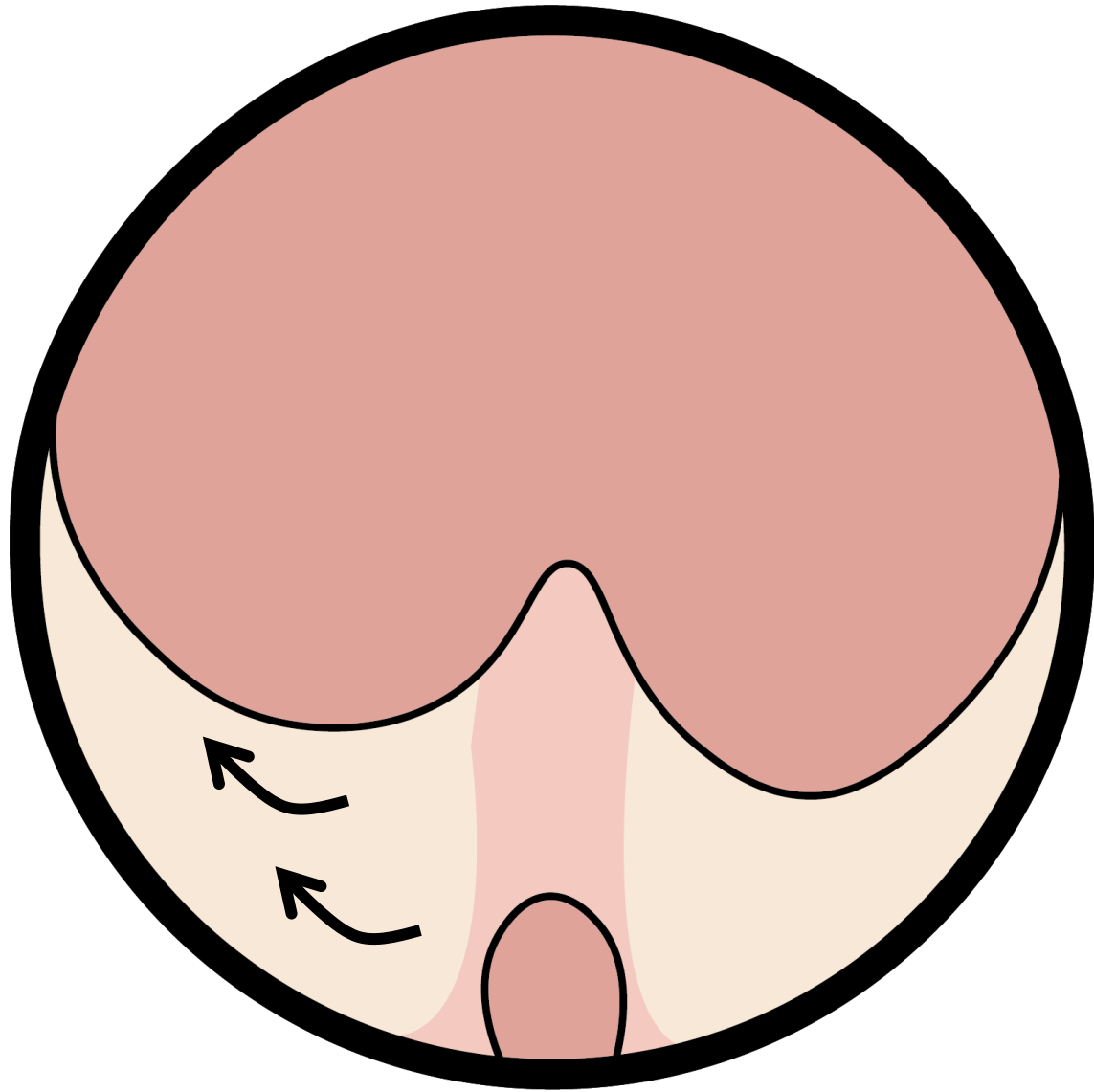
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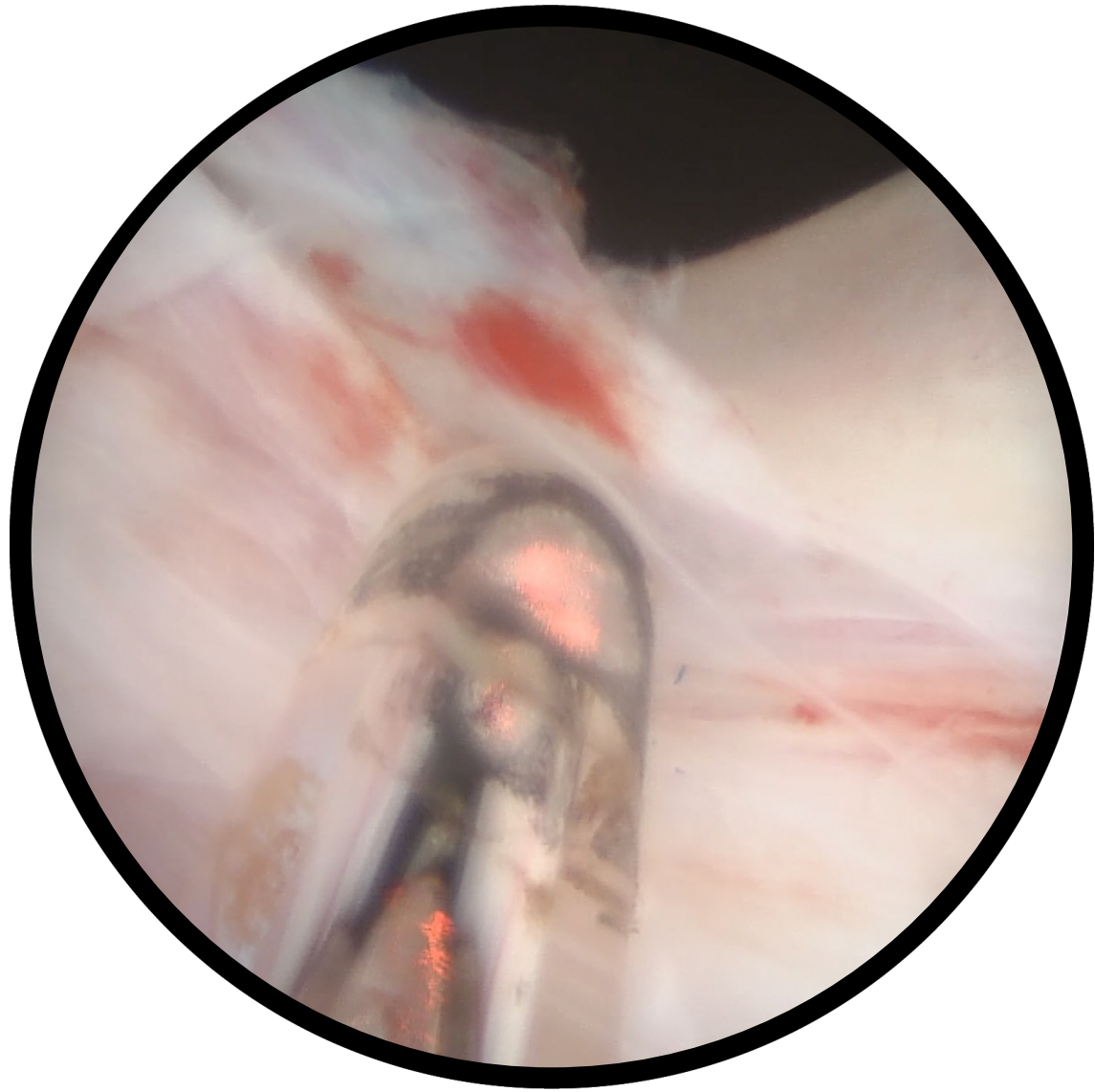
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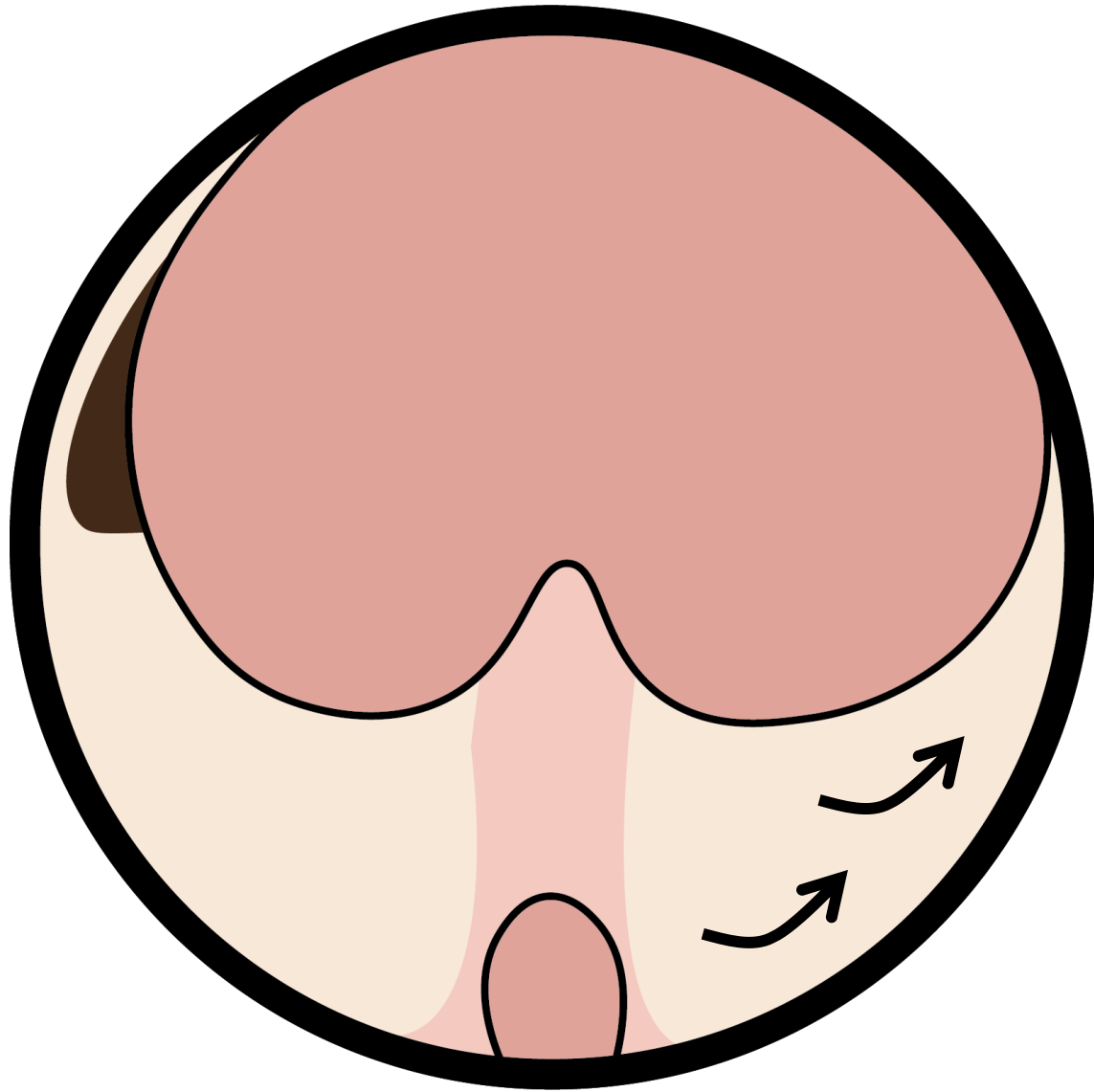


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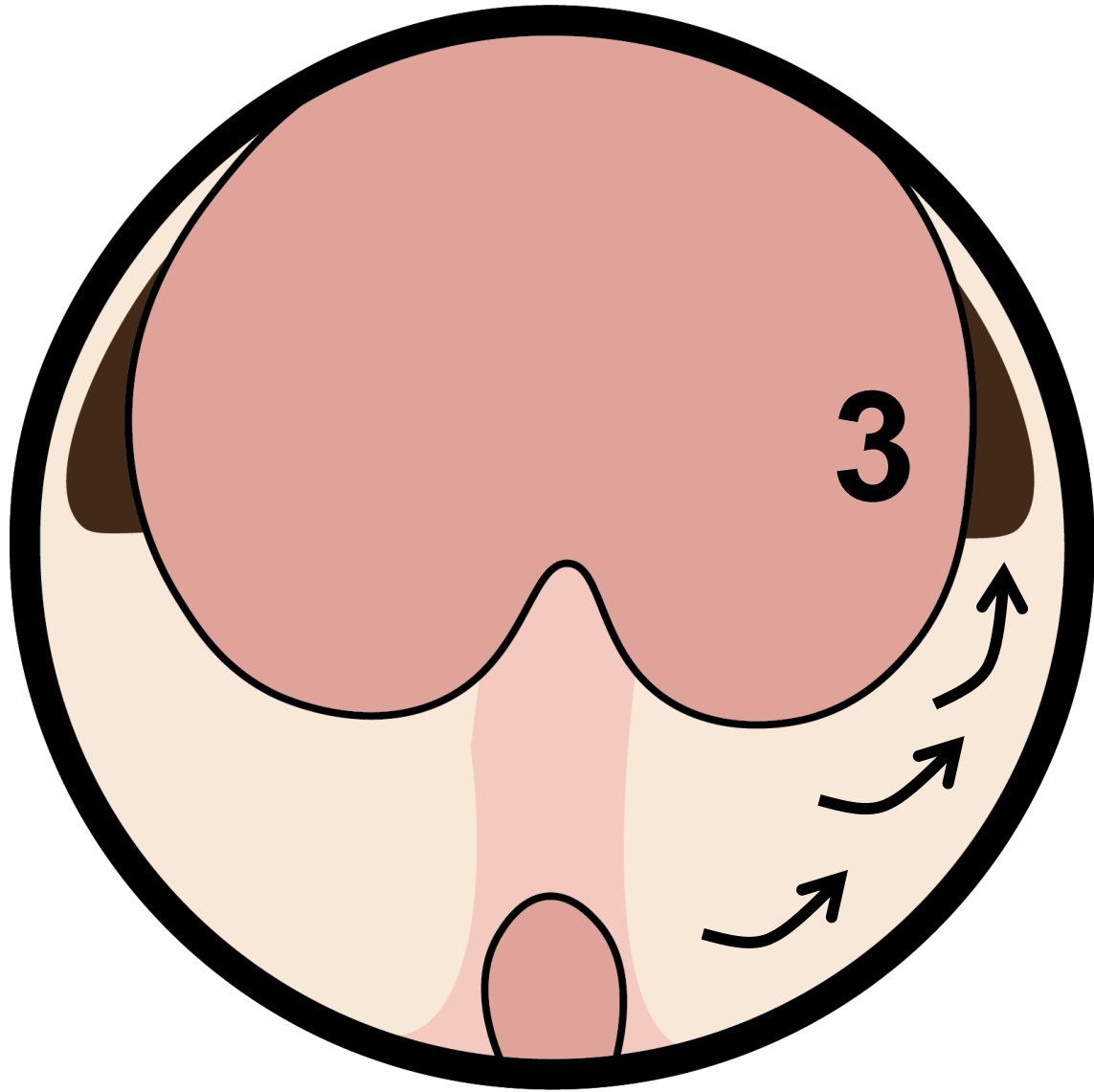








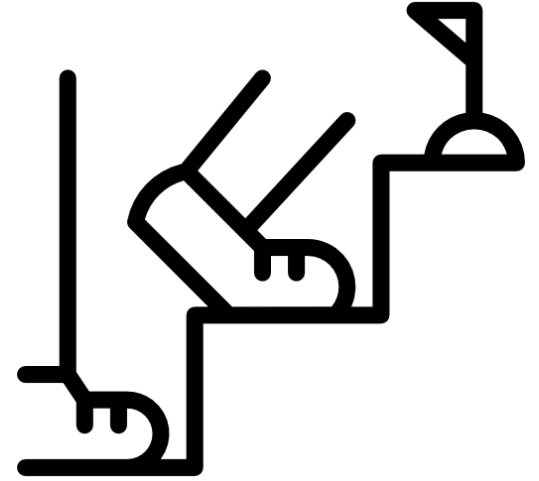




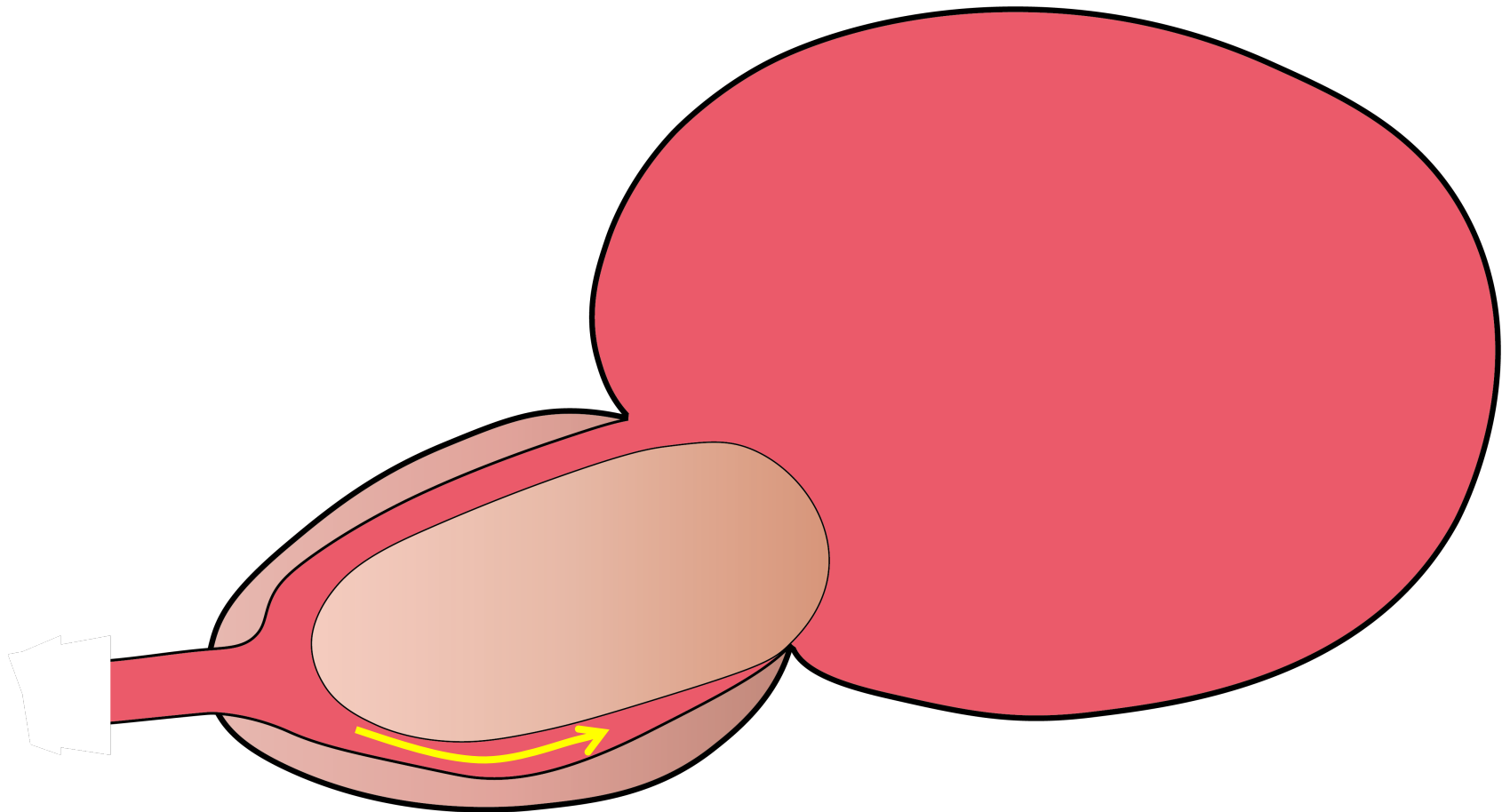
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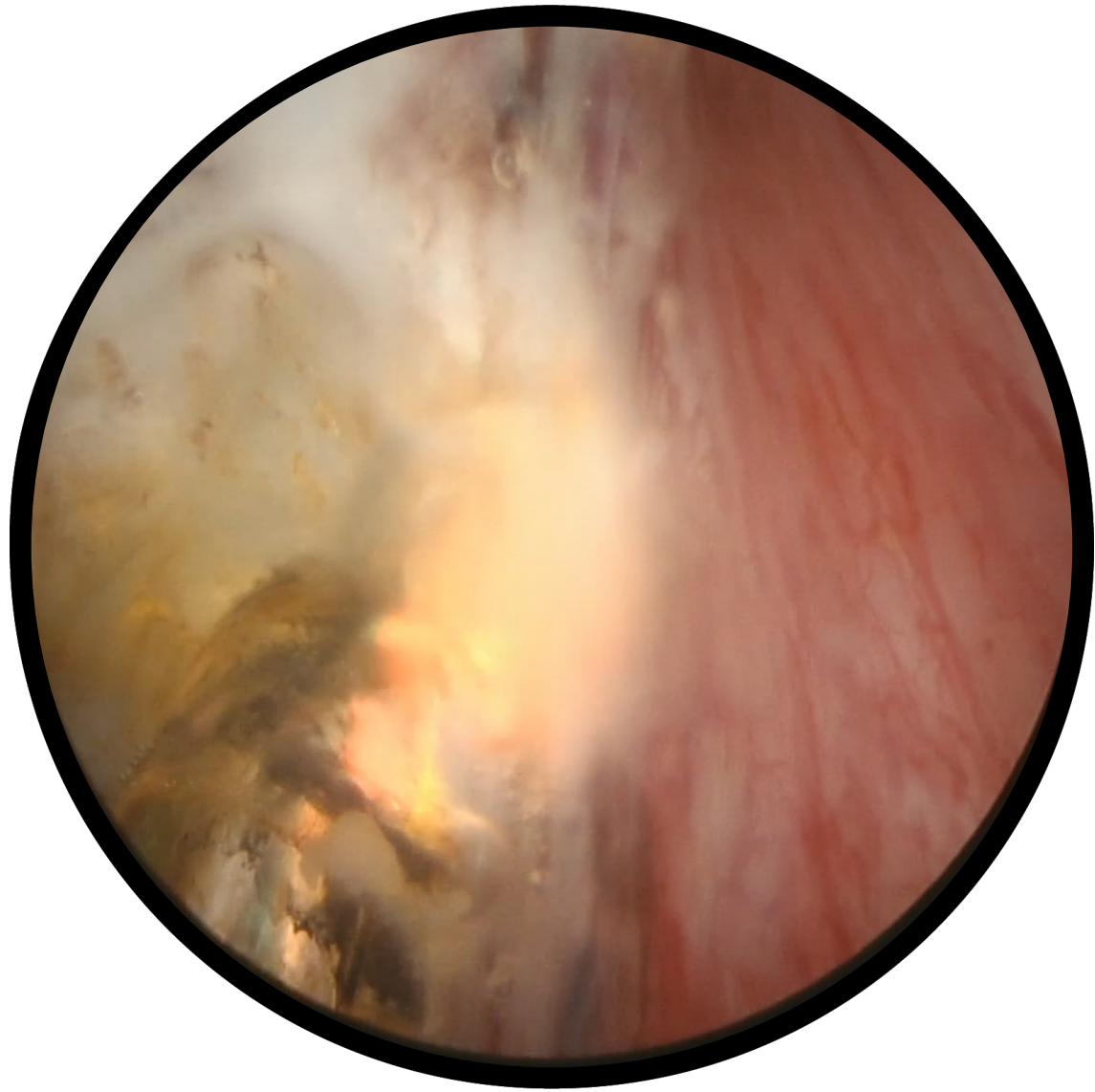
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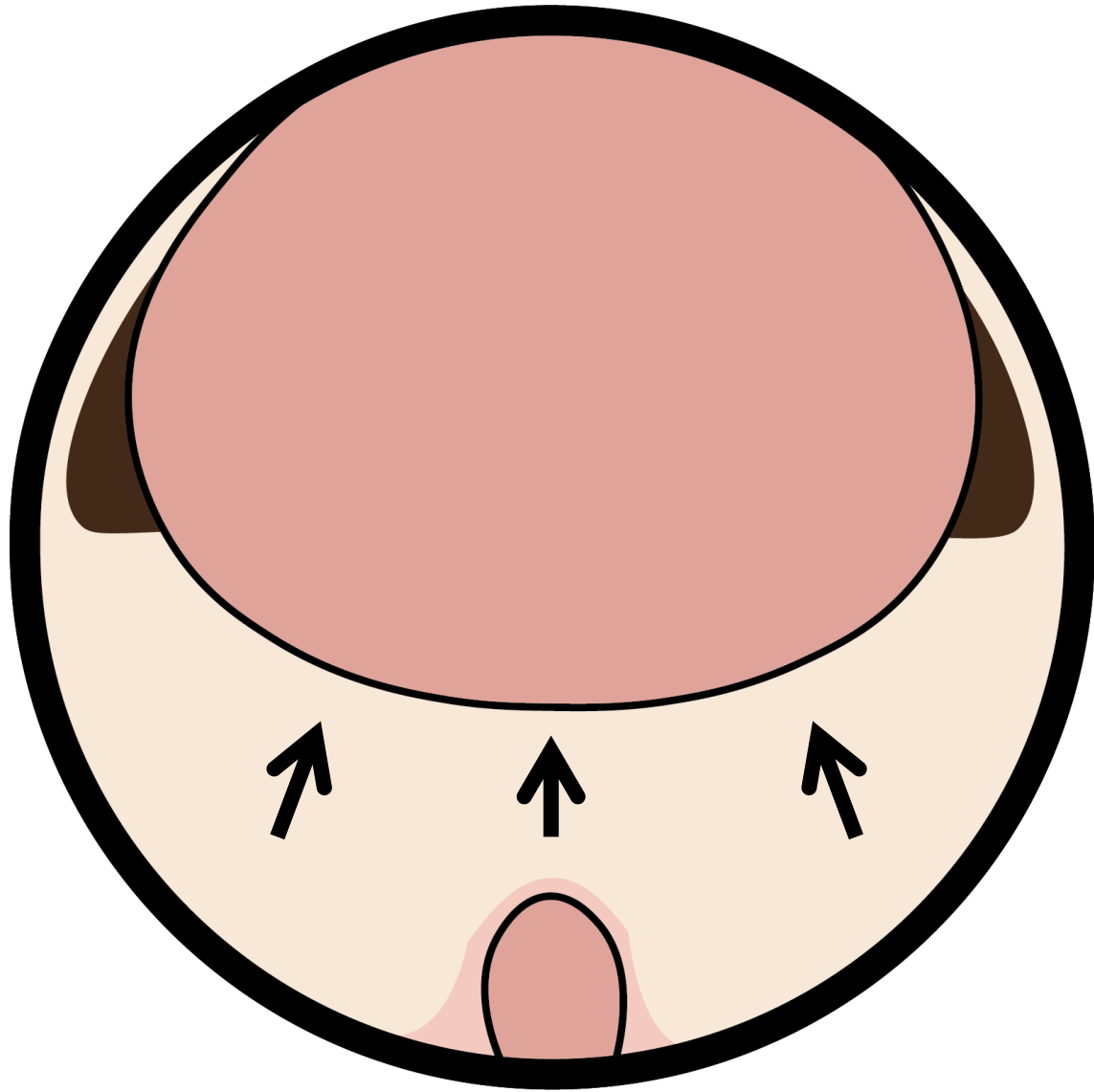
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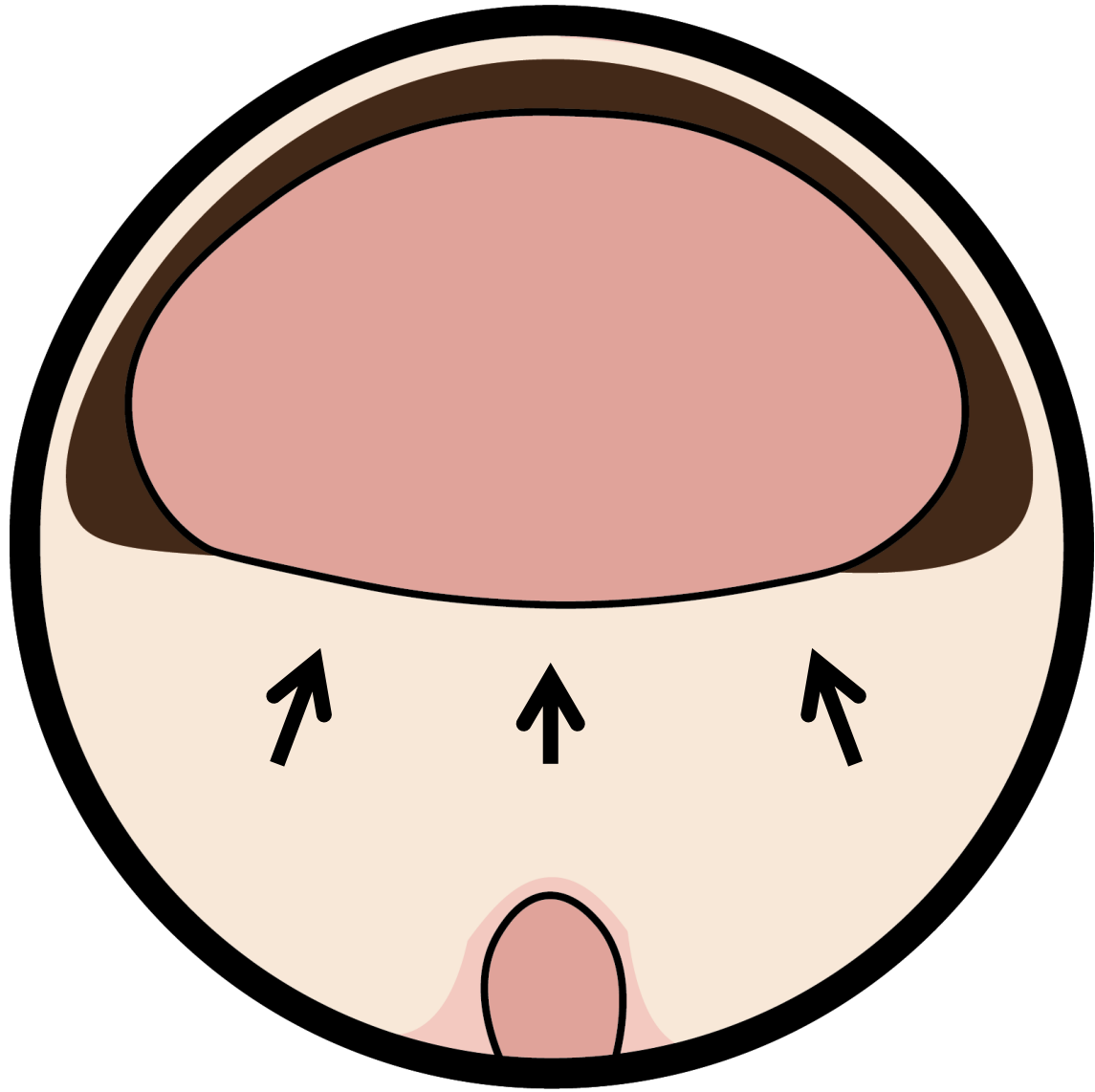


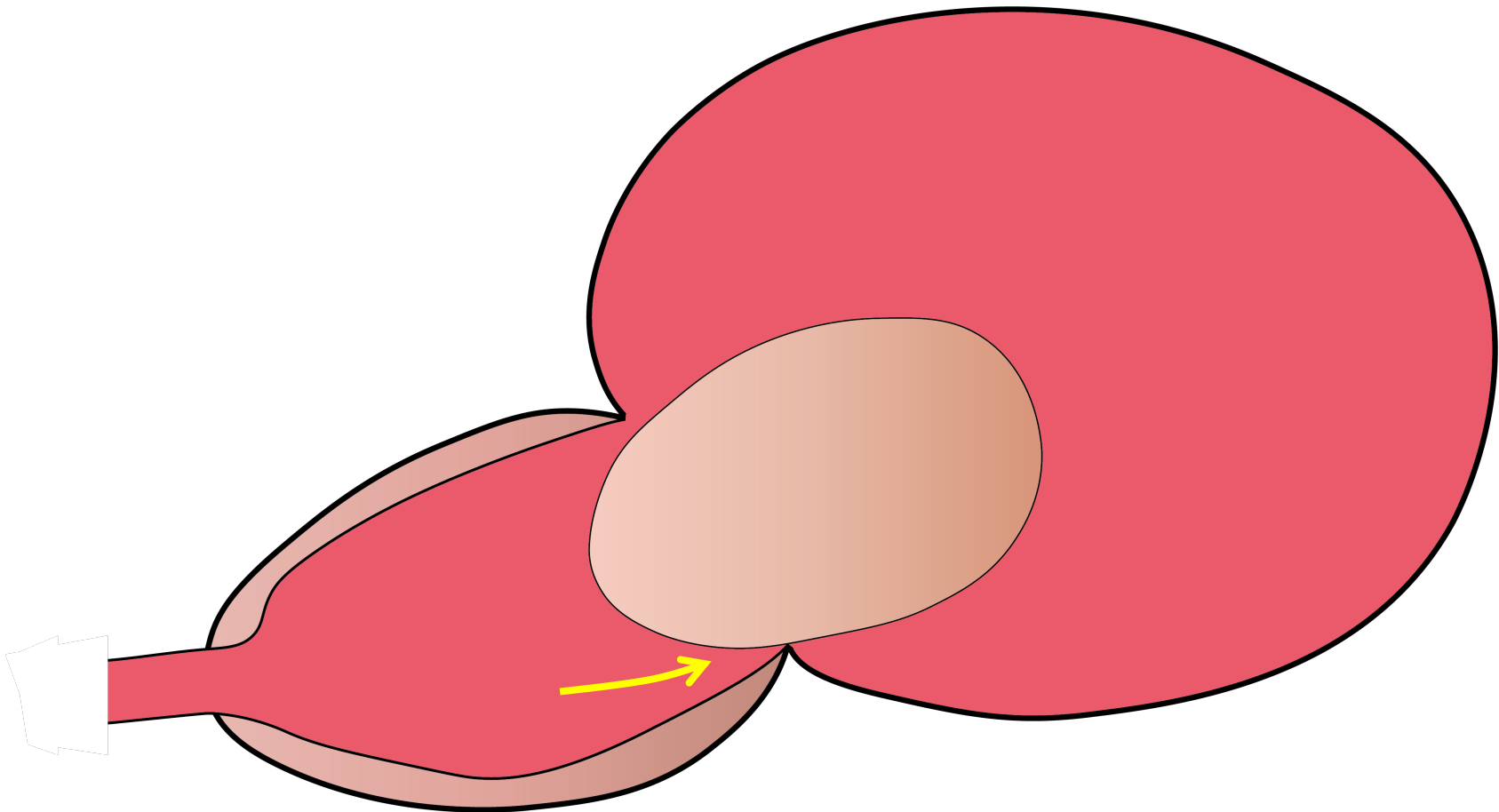
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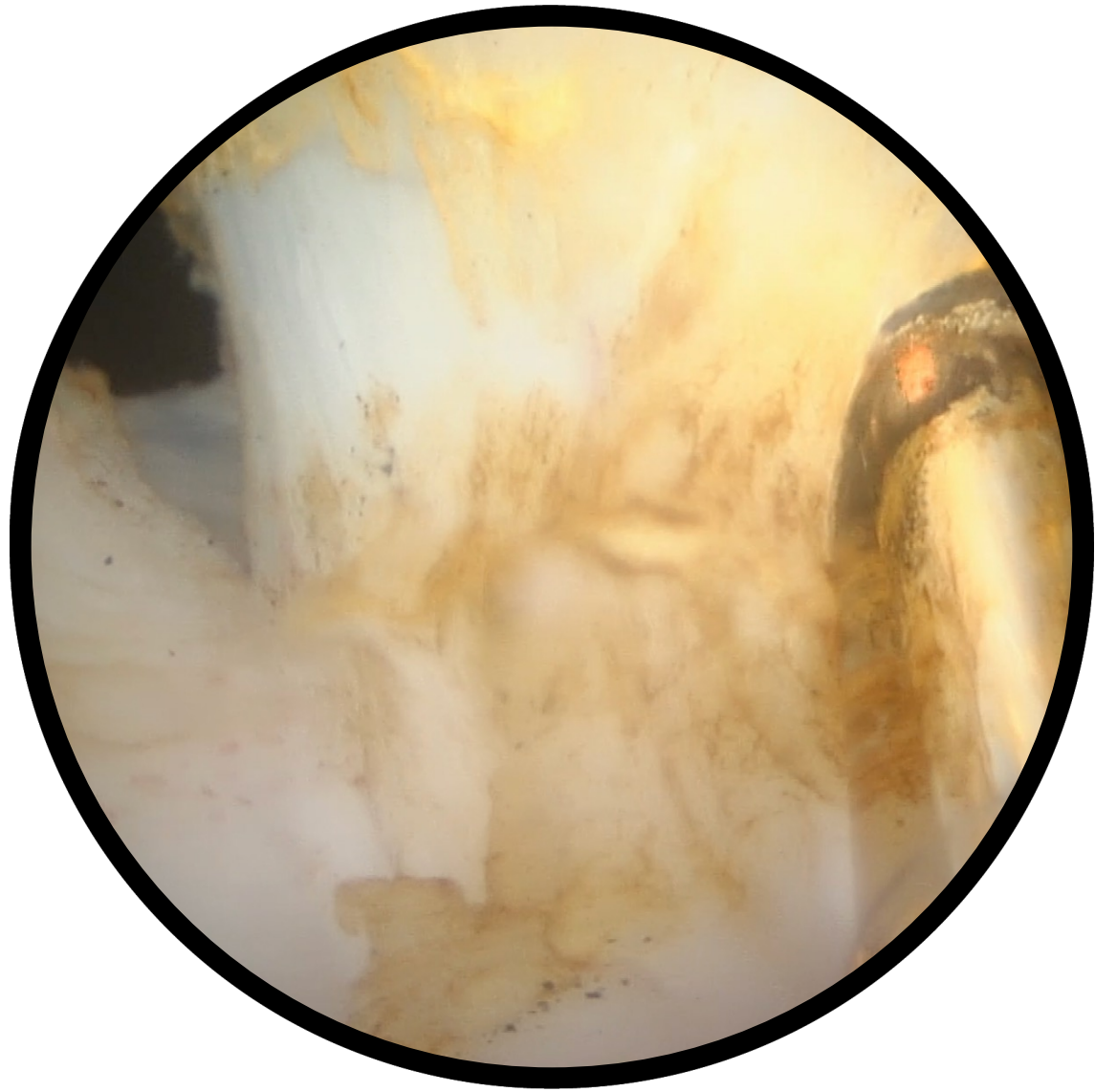




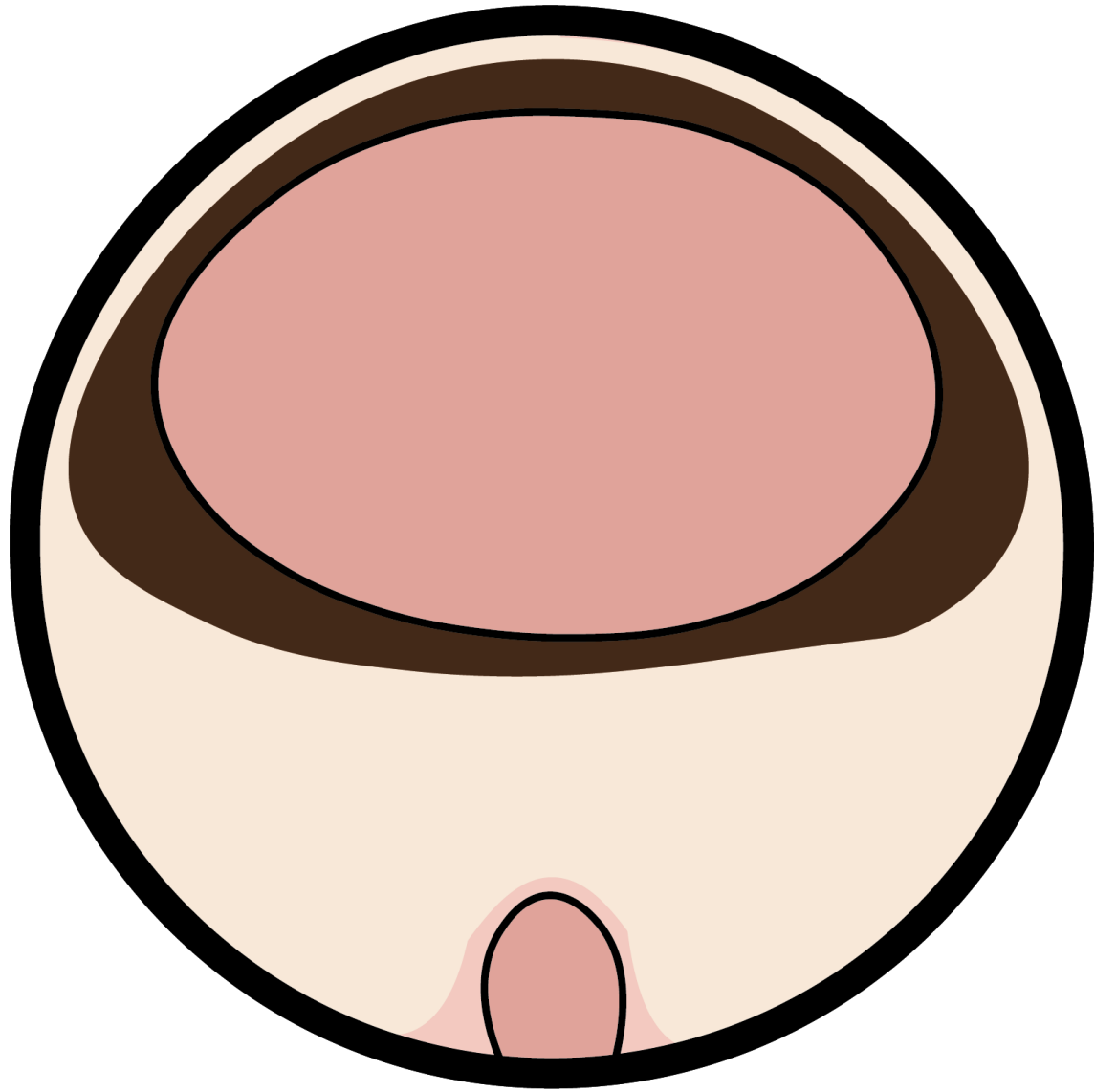


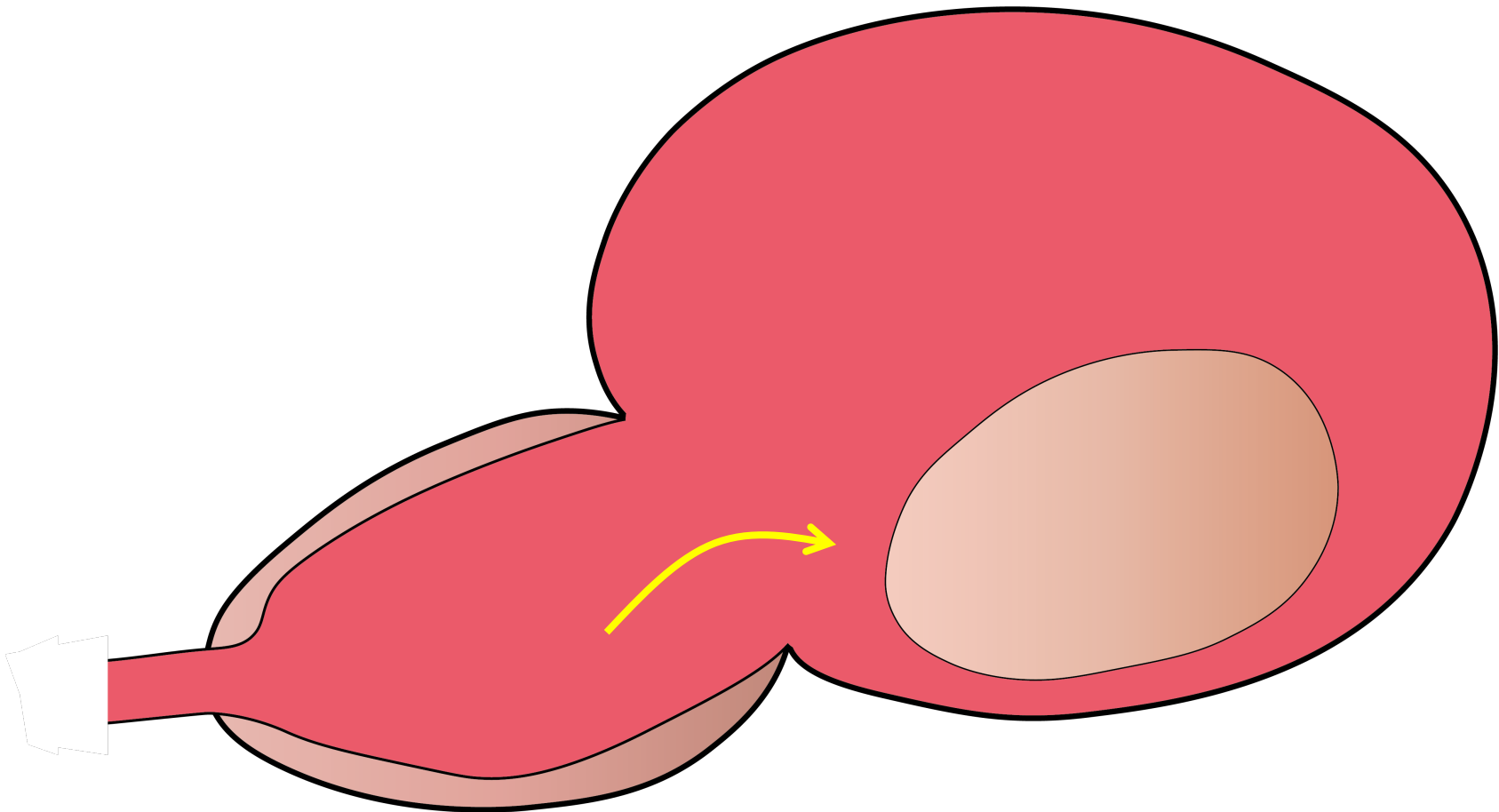


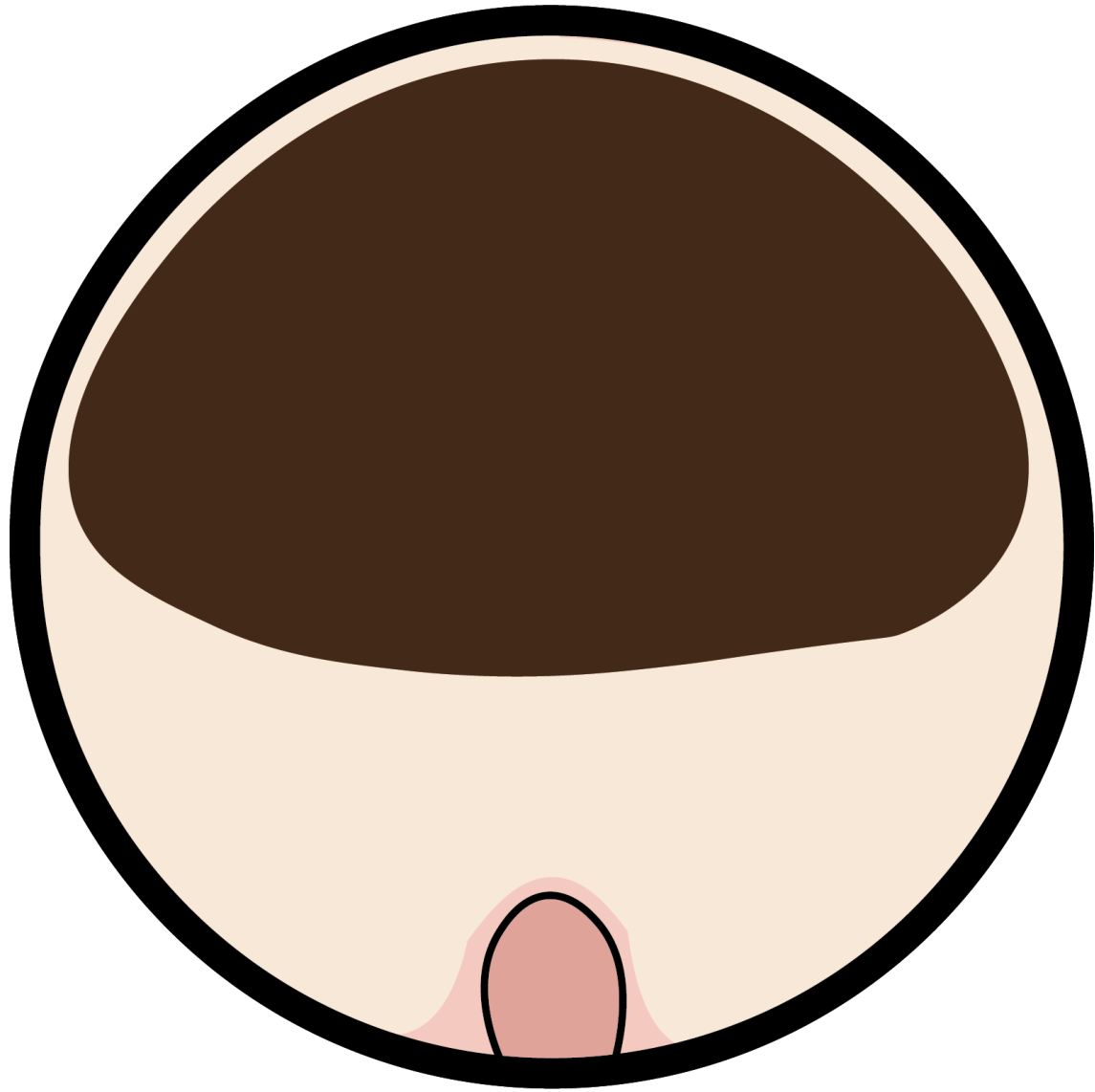












**video**

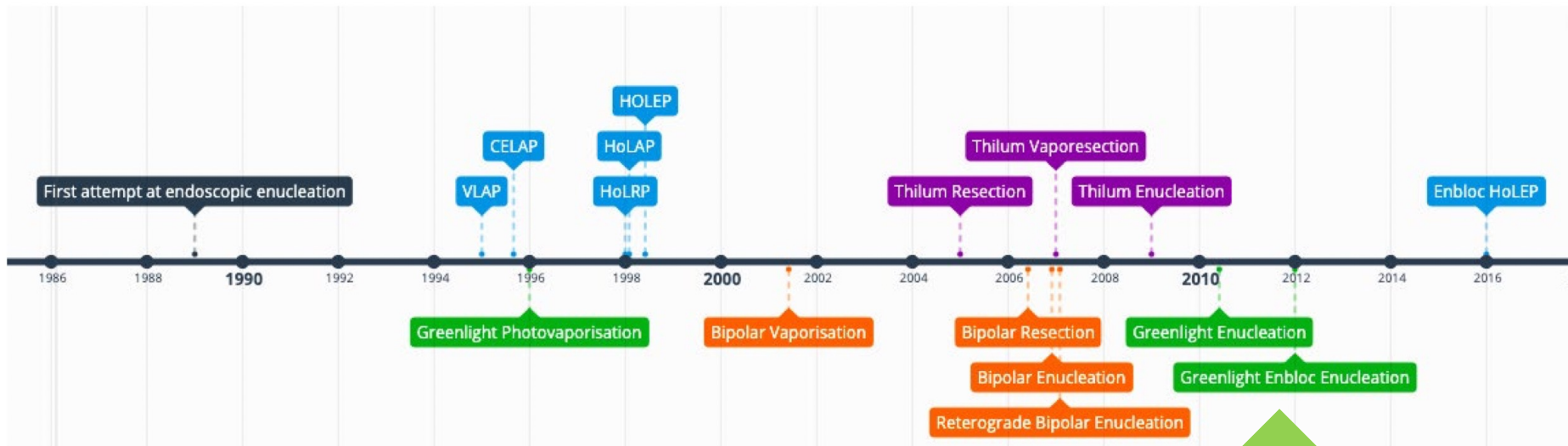
# Le tecniche enucleative faticano a diffondersi

**perchè**

- Procedure complesse
- Problema di formazione
- Lunga curva di apprendimento
- Timore delle complicanze
- Disponibilità strumentazione
- Costi

# The Evolution of *Endoscopic Prostate Enucleation*: A historical perspective

Sumeet K. Reddy<sup>1</sup>  | Victoria Utley<sup>1</sup> | Peter J. Gilling<sup>1,2</sup>



**EAU Guidelines on  
Management of  
Non-Neurogenic  
Male Lower Urinary  
Tract Symptoms  
(LUTS), incl.  
Benign Prostatic  
Obstruction (BPO)**

S. Gravas (Chair), J.N. Cornu, M. Gacci, C. Gratzke,  
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M.J. Speakman, M. Suardi, M. Tacke,  
Guidelines Associates: M. Karavitis, M. Kocak

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# Prima citazione sulle linee guida

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Guidelines Office

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2022

## Enucleation of the prostate

- 5.3.2.1 Open prostatectomy
- 5.3.2.2 Bipolar transurethral enucleation of the prostate
- 5.3.2.3 Holmium laser enucleation of the prostate
- 5.3.2.4 Thulium:yttrium-aluminium-garnet laser (Tm:YAG) enucleation of the prostate
- 5.3.2.5 Diode laser enucleation of the prostate
- 5.3.2.6 **Enucleation techniques under investigation**
  - 5.3.2.6.1 Minimal invasive simple prostatectomy
  - 5.3.2.6.2 532 nm ('Greenlight') laser enucleation of the prostate

# LA SFIDA



**ideazione**

**realizzazione**

**diffusione**





# COME INIZIARE...

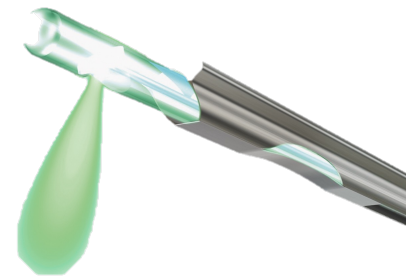
- Strumentario
- Versatilità del Green Laser
- Tecnica
- Selezione del paziente
- Equipe
- Tutoraggio
- Apprendimento in coppia
- Densità interventi
- Piano B

Learn how to...

## GreenLEP

FOR  
DUMMIES®

 GreenLight™  
Laser Therapy



Tips and tricks by  
**Dr. Francesco Varvello**  
Urologist at  
Michele e Pietro Ferrero Hospital  
Verduno, Italy

# COME INIZIARE...

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## TECNICHE A COMPLESSITA' PROGRESSIVA

- PVP
- PVP anatomica
- Enucleazione esclusiva terzo lobo
- Enucleazione a lobi separati
- Enucleazione en-bloc modificata
- Enucleazione en-bloc

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## **RISPETTO DEI LANDMARKS**

- Sfintere
- Collicolo seminale
- Cresta uretrale
- Collo vescicale

## **SEGUIRE SEMPRE LA CAPSULA**

- riconoscere i piani
- sfruttare la punta della fibra per sondare il piano
- non vaporizzare
- effetto coagulo + spinta meccanica

## **CURARE L'EMOSTASI**

- dopo ogni spinta meccanica
- prima della morcellazione

## **RISPETTARE LA SEQUENZA DELLE FASI DELLA PROCEDURA**

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- Volume prostata 40-80 cc
- No storia di prostatiti
- No catetere a dimora
- No anticoagulanti
- No patologie urologiche associate
- No precedenti procedure per IPB

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## ...ASSISTENZA ALLA MORCELLAZIONE

- Sostituzione strumenti
- Monitoraggio irrigazione
- Switch vasi aspiratore
- Verifica malfunzionamenti
- ecc.

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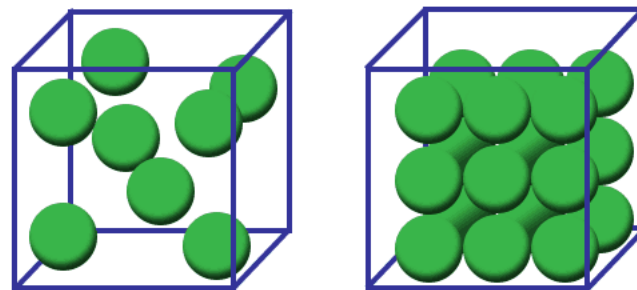
**TWO IS  
MEGLI CHE  
UAN!**



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Density



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