

KỸ THUẬT MỔ NỘI SOI MŨI XOANG

PHẠM KIÊN HỮU



LỊCH SỬ

- COWPER: PHẪU THUẬT XOANG HÀM



**TRANSILLUMINATION
OF THE
PARANASAL
SINUSES**

LỊCH SỬ PHÁT TRIỂN

- Messerklinger - 1978
- Stammberger - 1980's
- Draf - 1980's
- Kennedy - 1985

CÁC MỐC GIẢI PHẪU QUAN TRỌNG

LATERAL NASAL WALL

SUPERIOR TURBINATE/MEATUS

MIDDLE TURBINATE/MEATUS

UNCINATE PROCESS

ETHMOID BULLA

MAXILLARY SINUS OSTIA

FRONTAL RECESS

HIATUS SEMILUNARIS

RETROBULLAR RECESS

INFERIOR TURBINATE/MEATUS

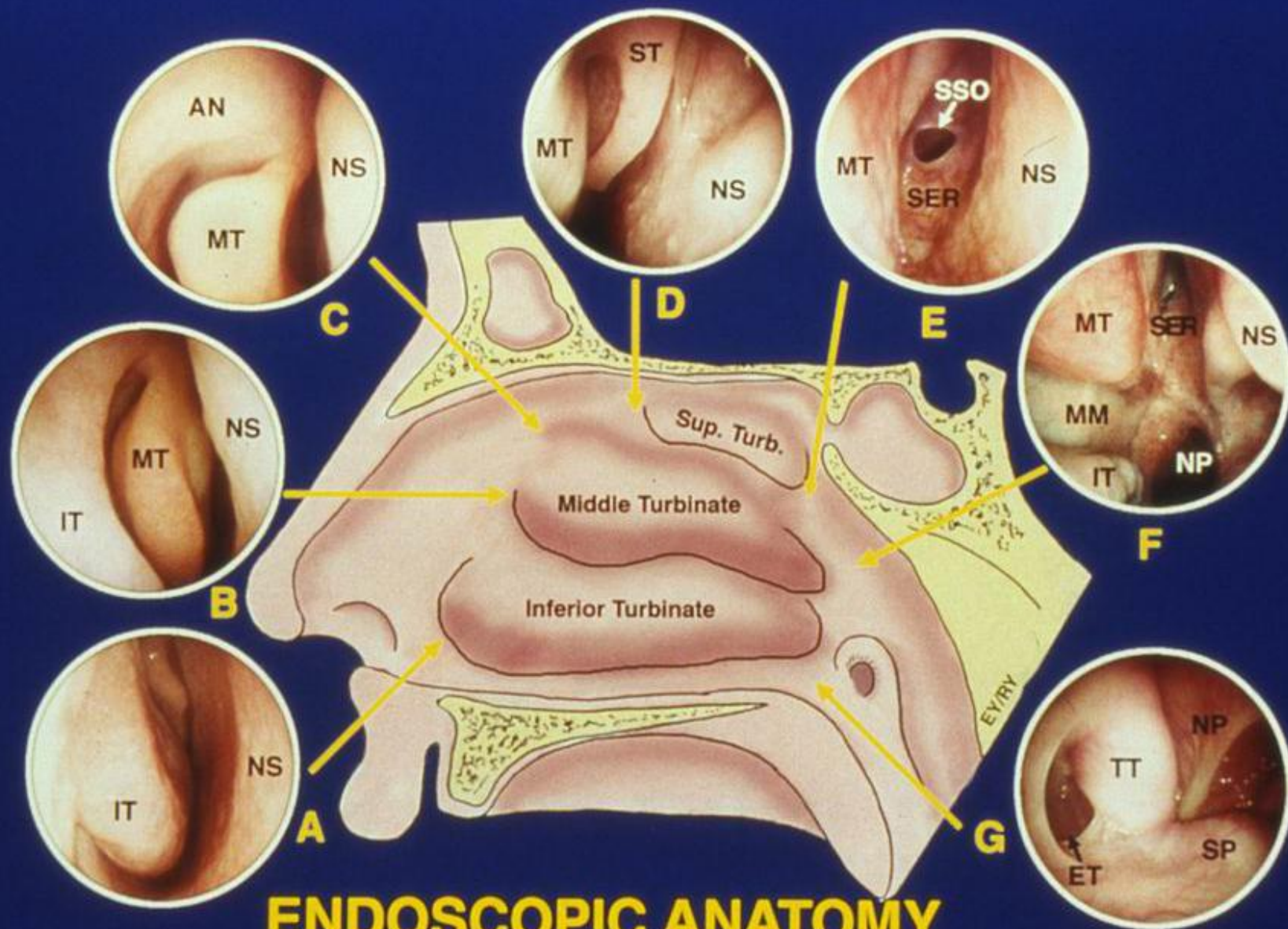
PARANASAL SINUSES

FRONTAL SINUS

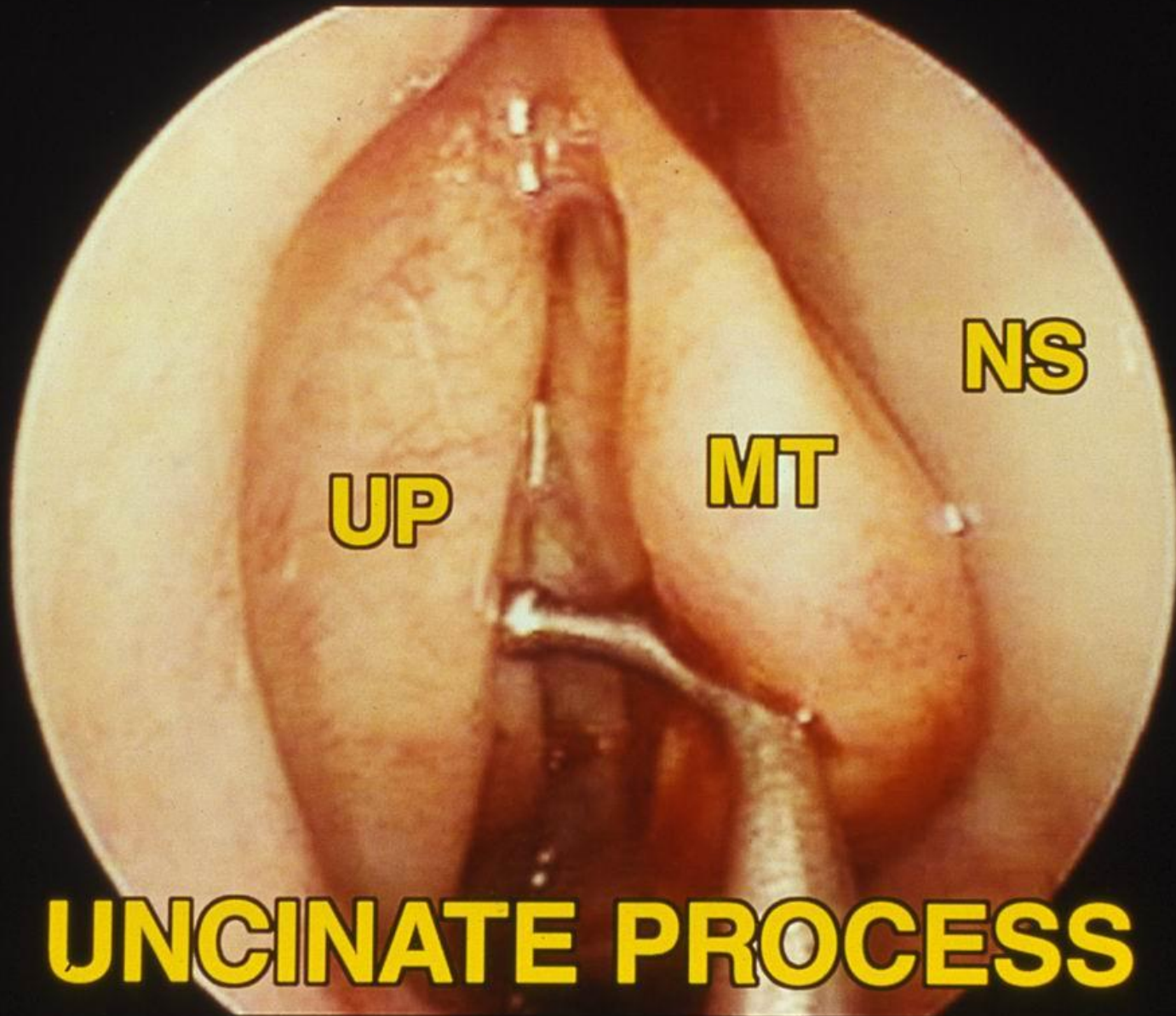
MAXILLARY SINUS

ETHMOID SINUS

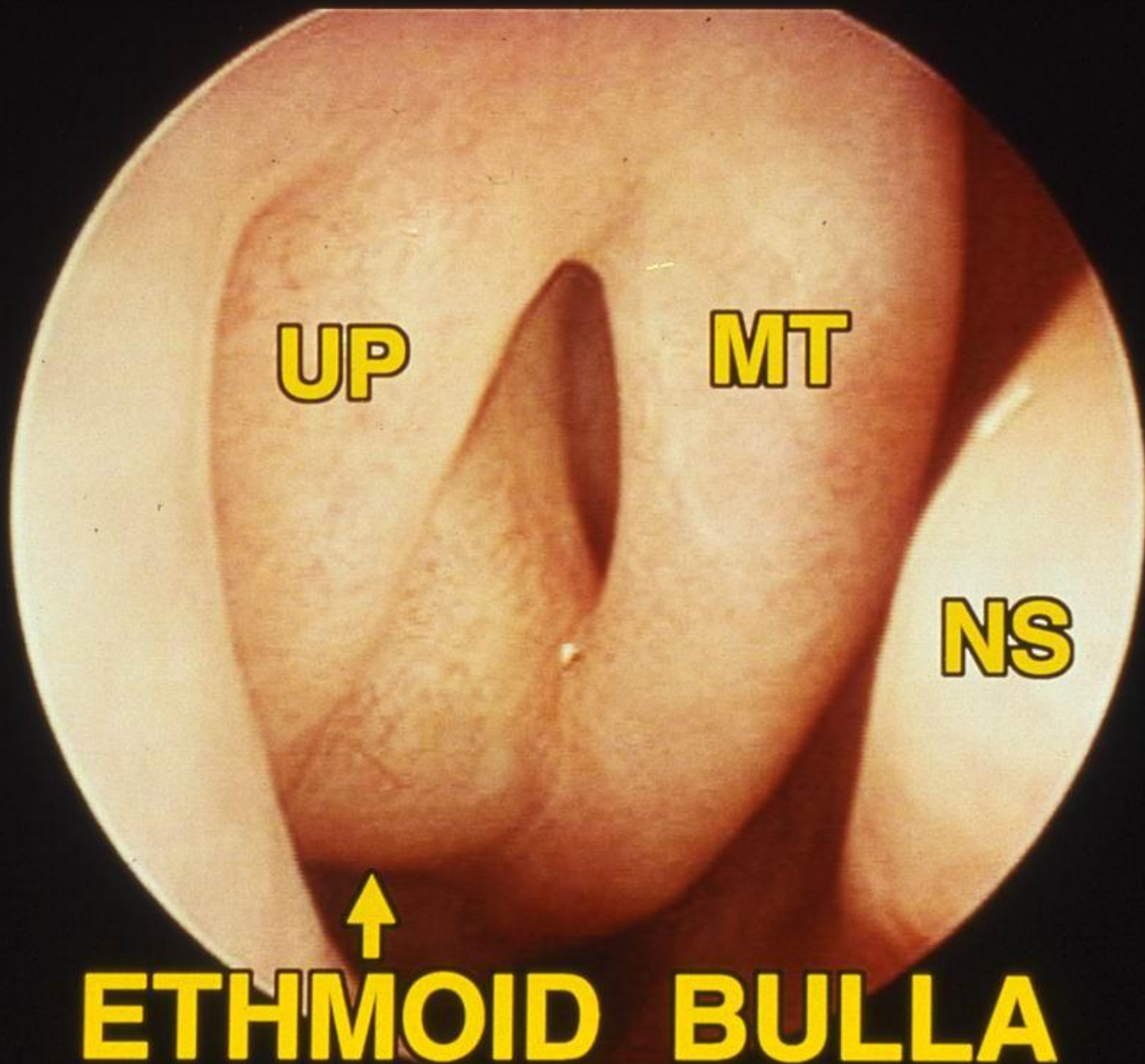
SPHENOID SINUS



ENDOSCOPIC ANATOMY OF LATERAL NASAL WALL



UNCINATE PROCESS



**MAXILLARY
SINUS
NATURAL
OSTIUM**



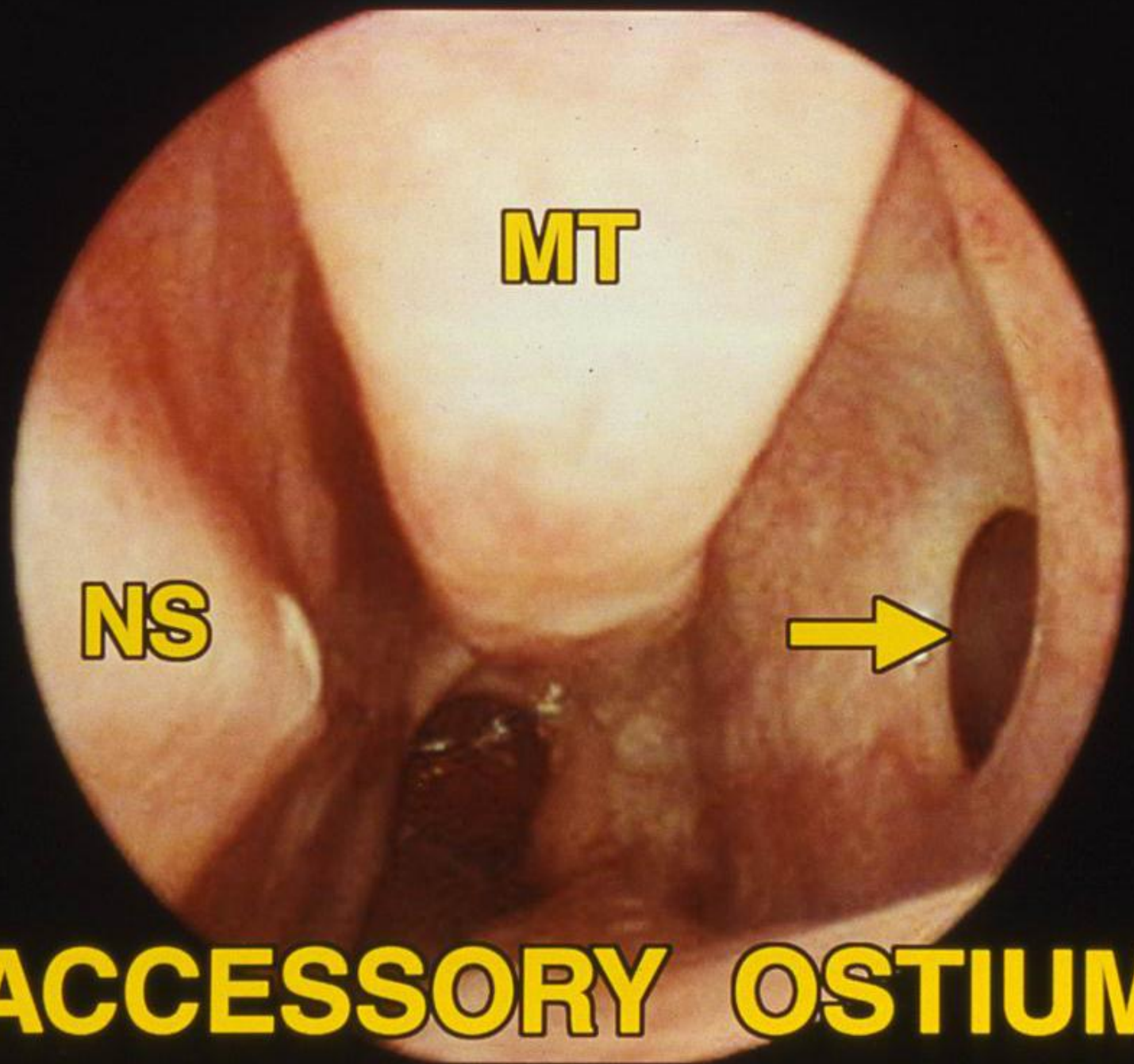
EB

EI

HSLI

UP Remnants

POST UNCINECTOMY VIEW



ACCESSORY OSTIUM

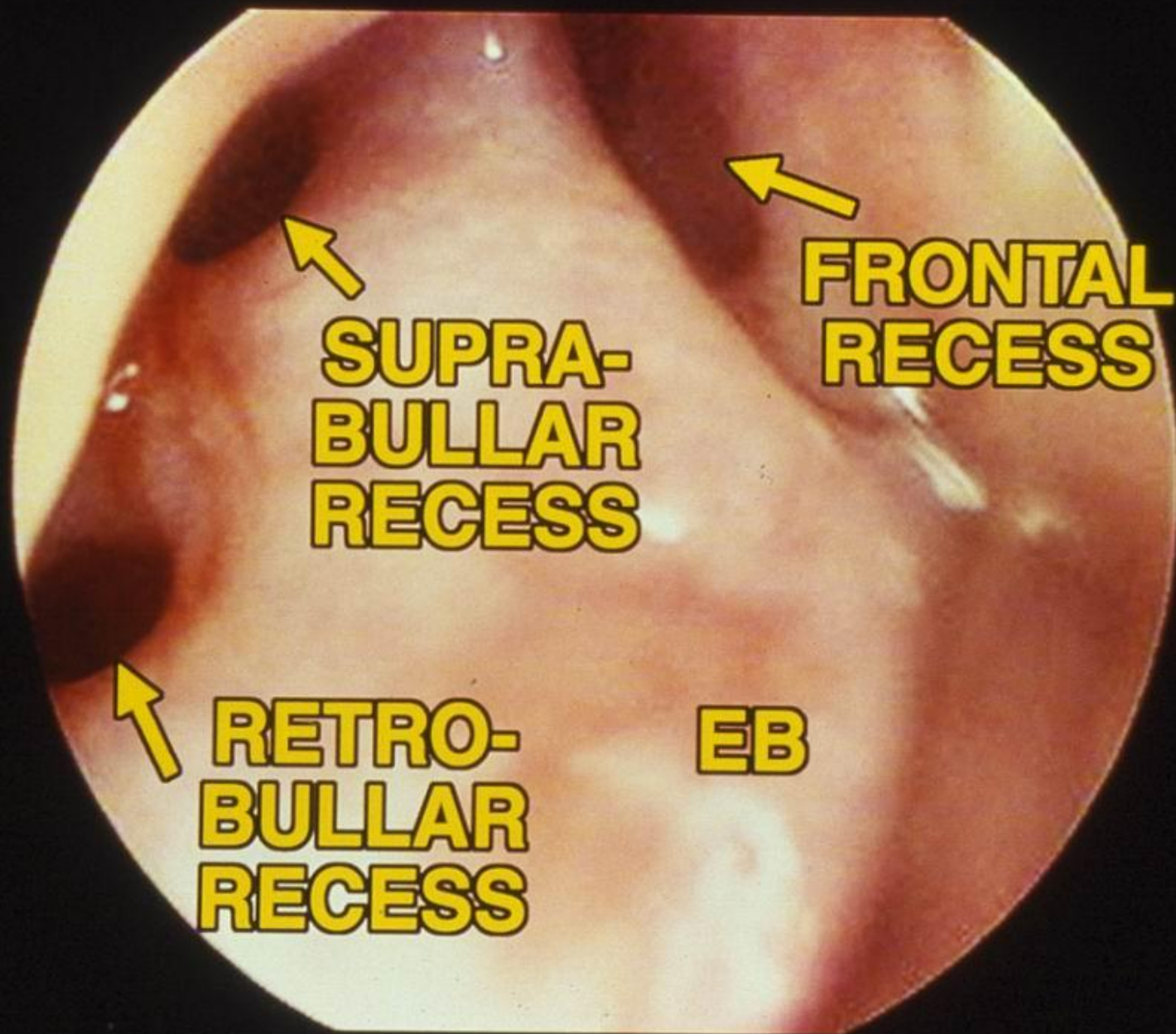
**ETHMOID
BULLA**

UP

MT



**INFERIOR SUPERIOR
HIATUS SEMILUNARIS**



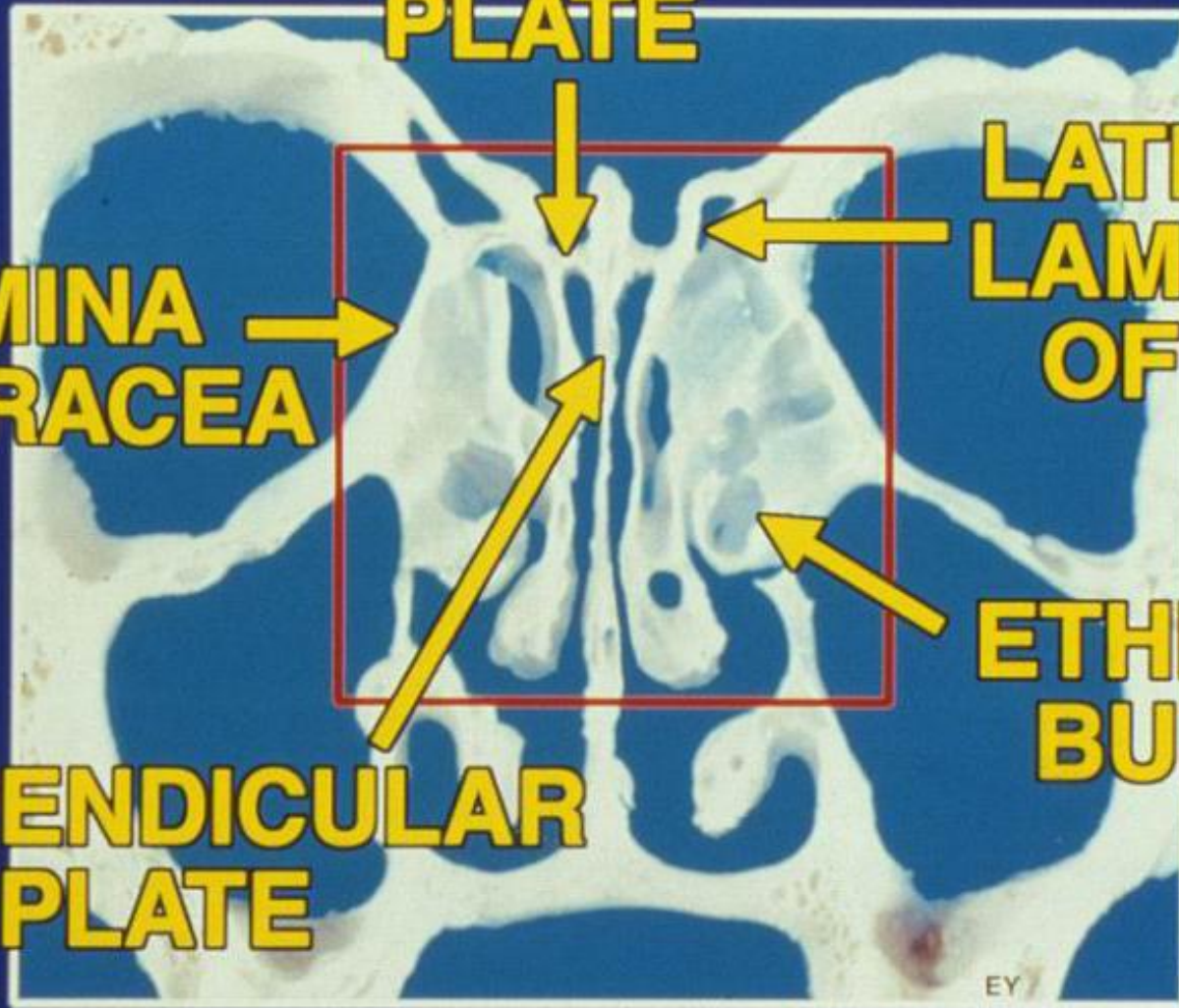
**CRIBRIFORM
PLATE**

**LAMINA
PAPYRACEA**

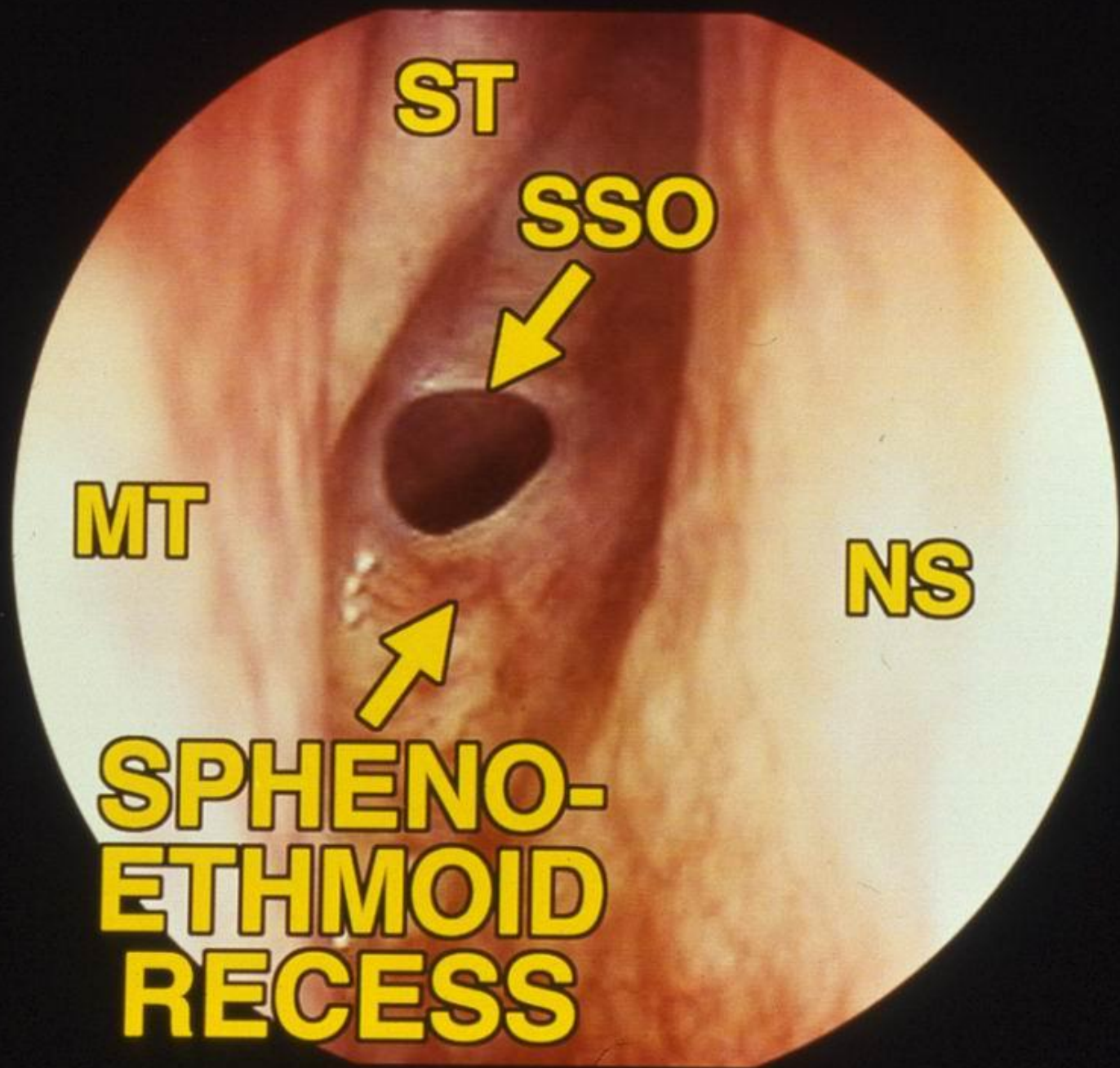
**LATERAL
LAMELLA
OF CP**

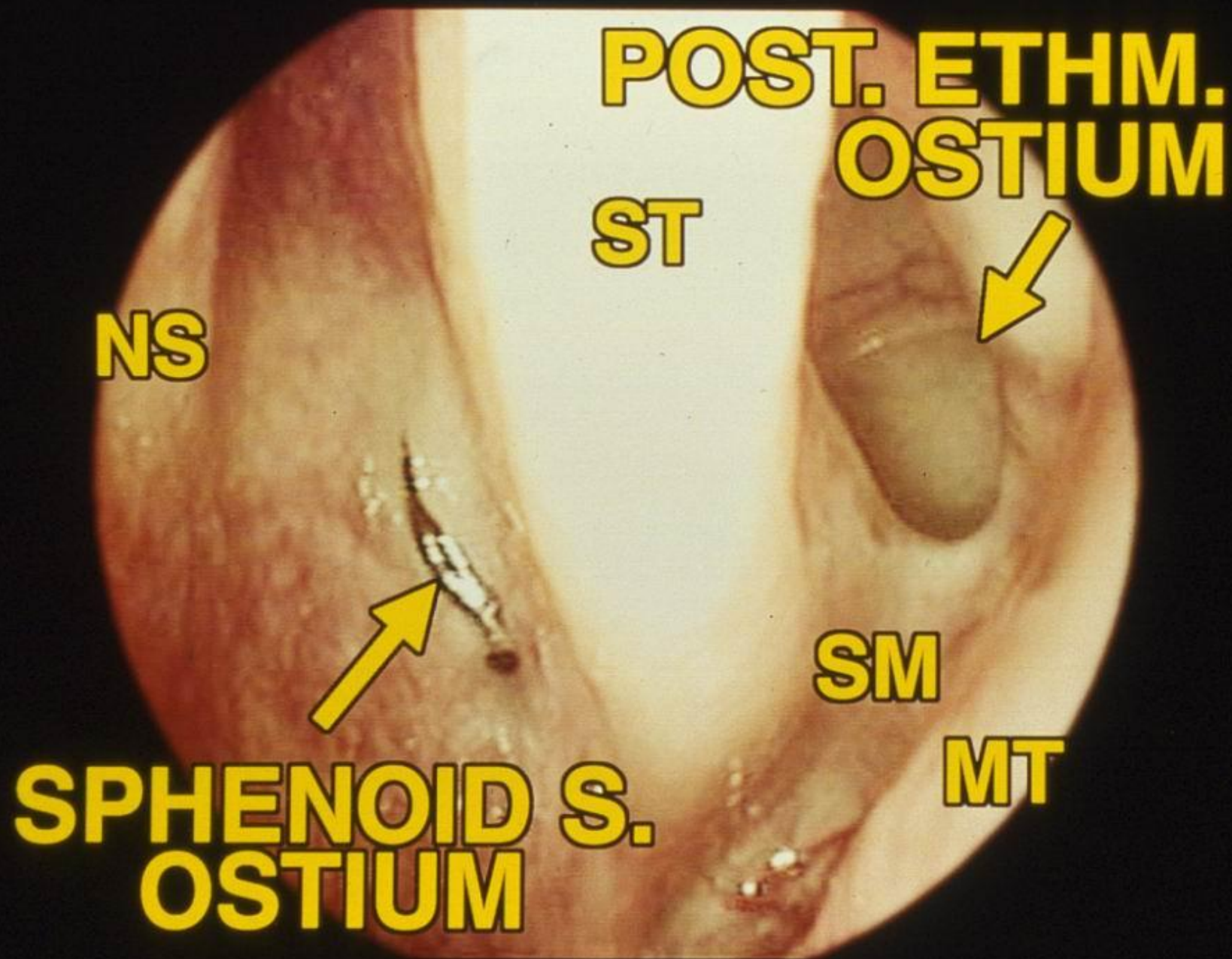
**ETHMOID
BULLA**

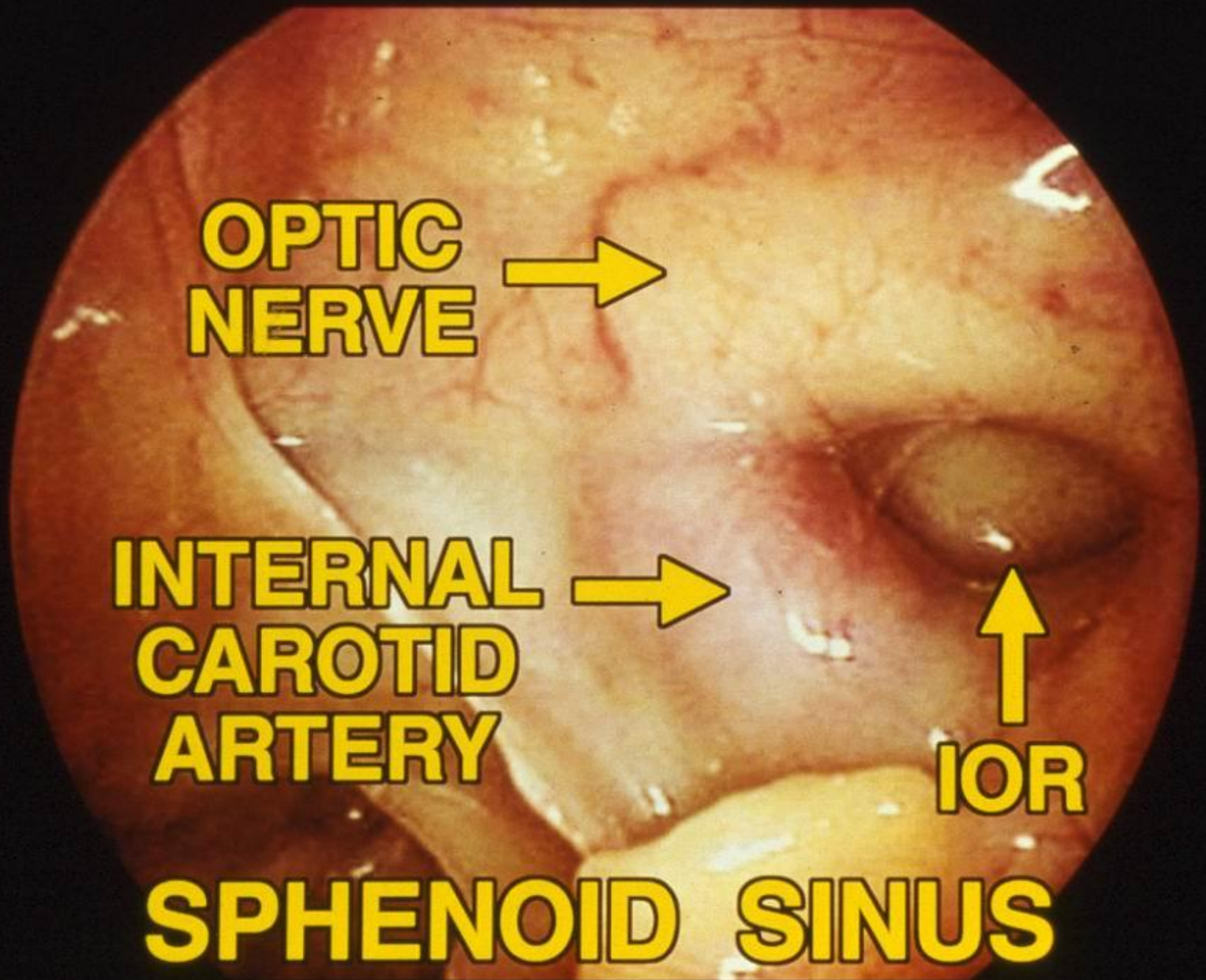
**PERPENDICULAR
PLATE**



ETHMOID SINUSES







**OPTIC
NERVE**



**INTERNAL
CAROTID
ARTERY**

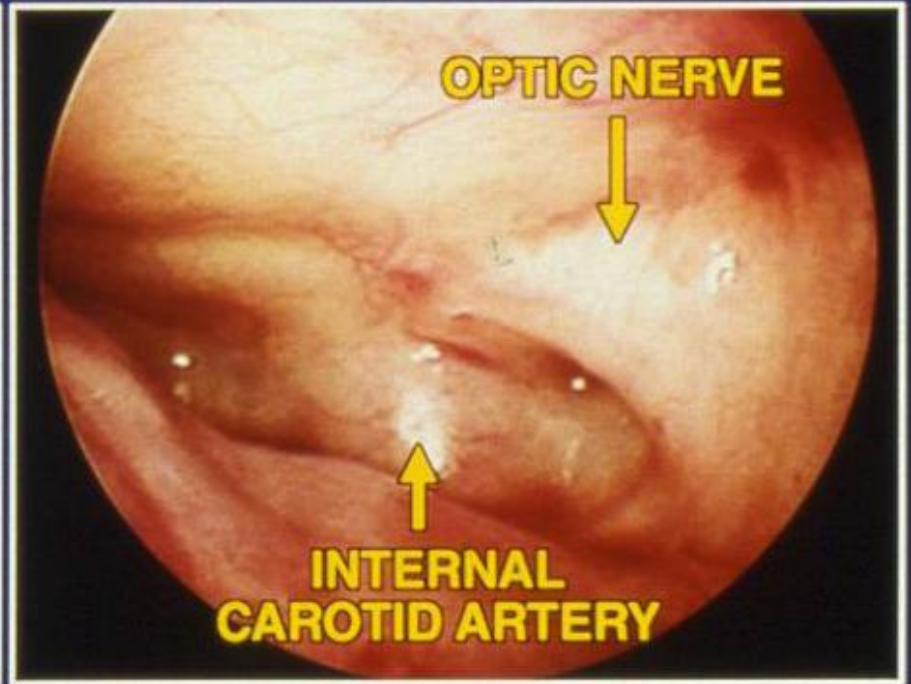
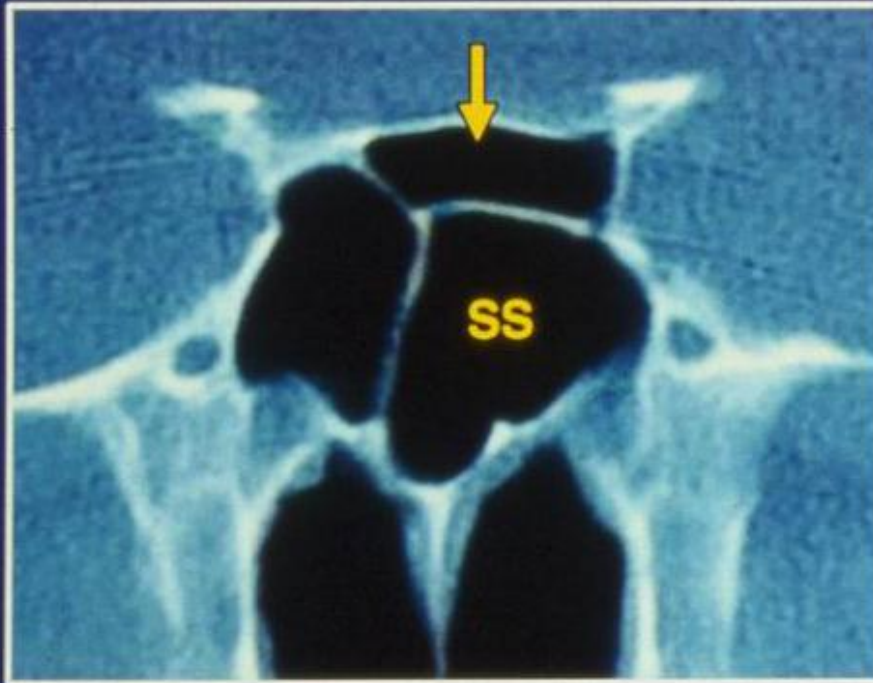


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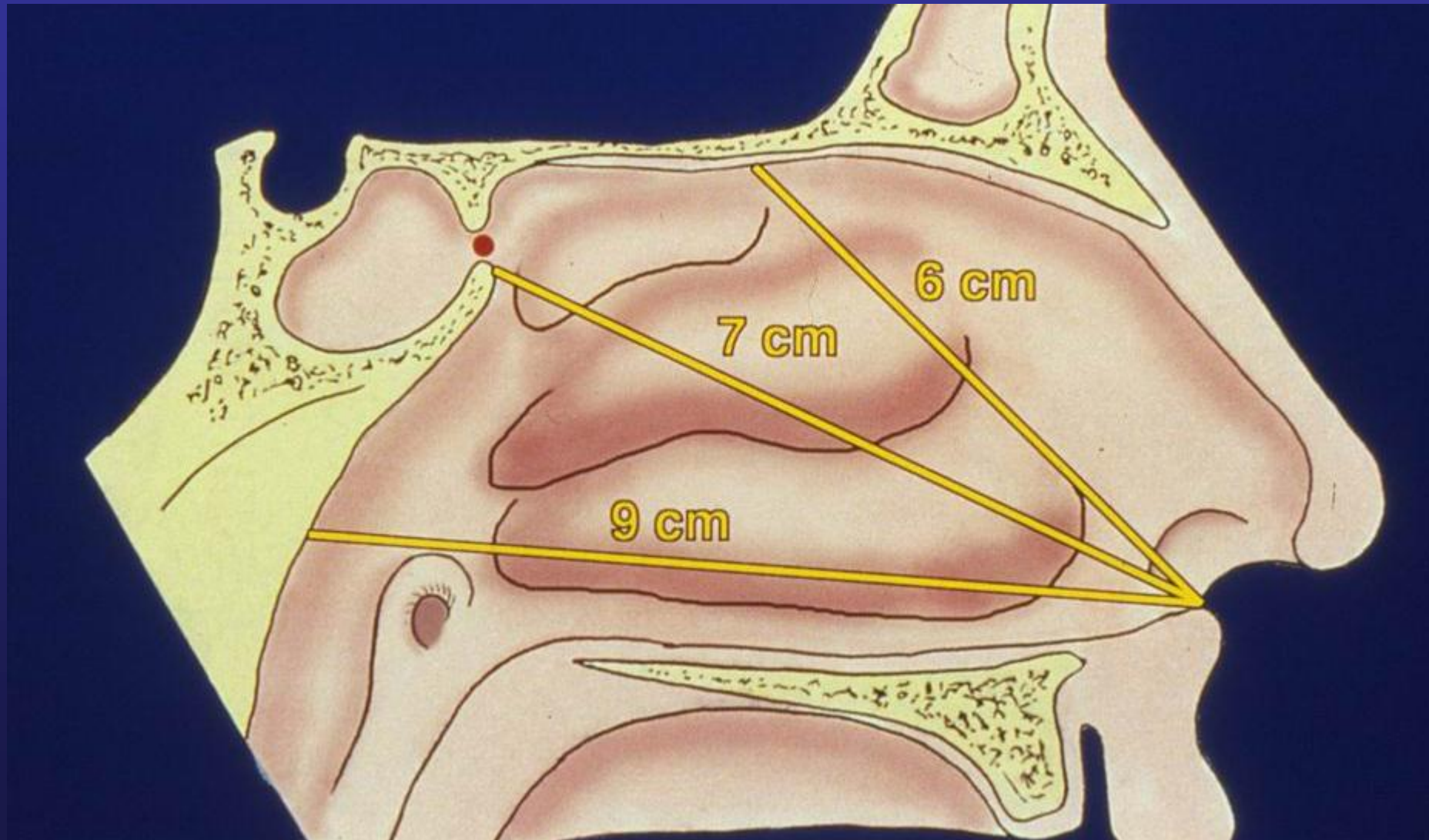


SPHENOID SINUS

TẾ BÀO ONODI



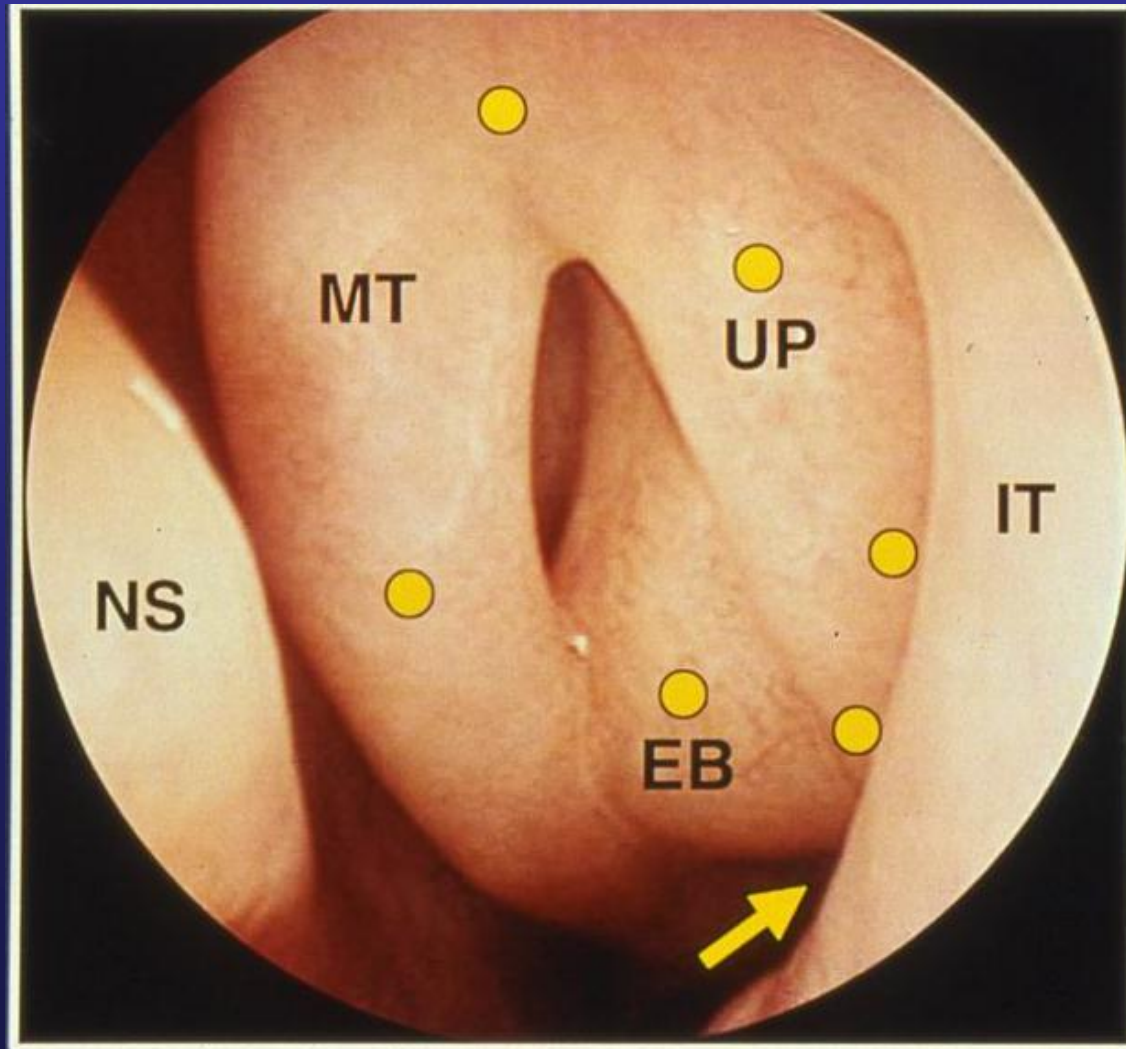
CÁC SỐ ĐO QUAN TRỌNG

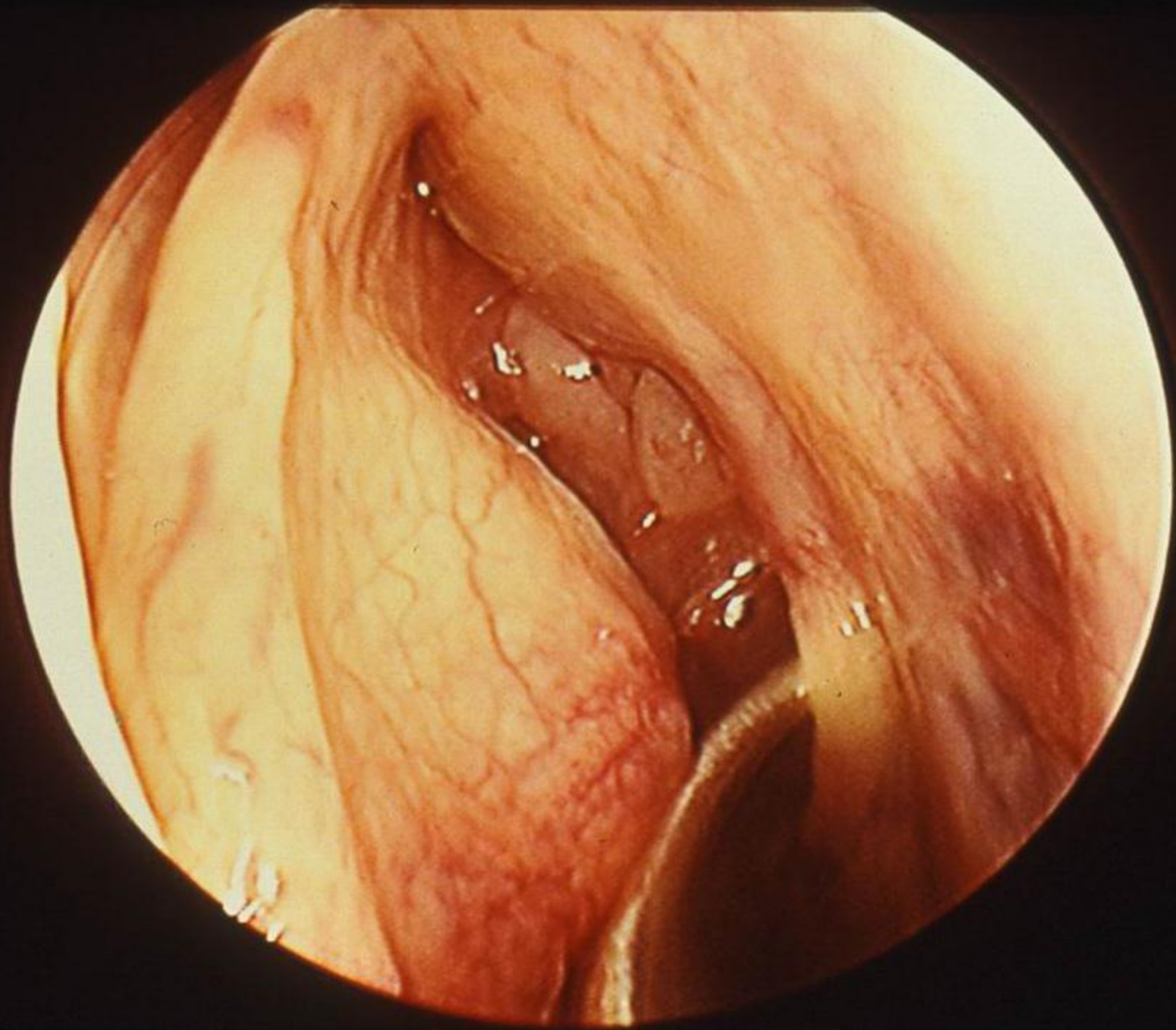


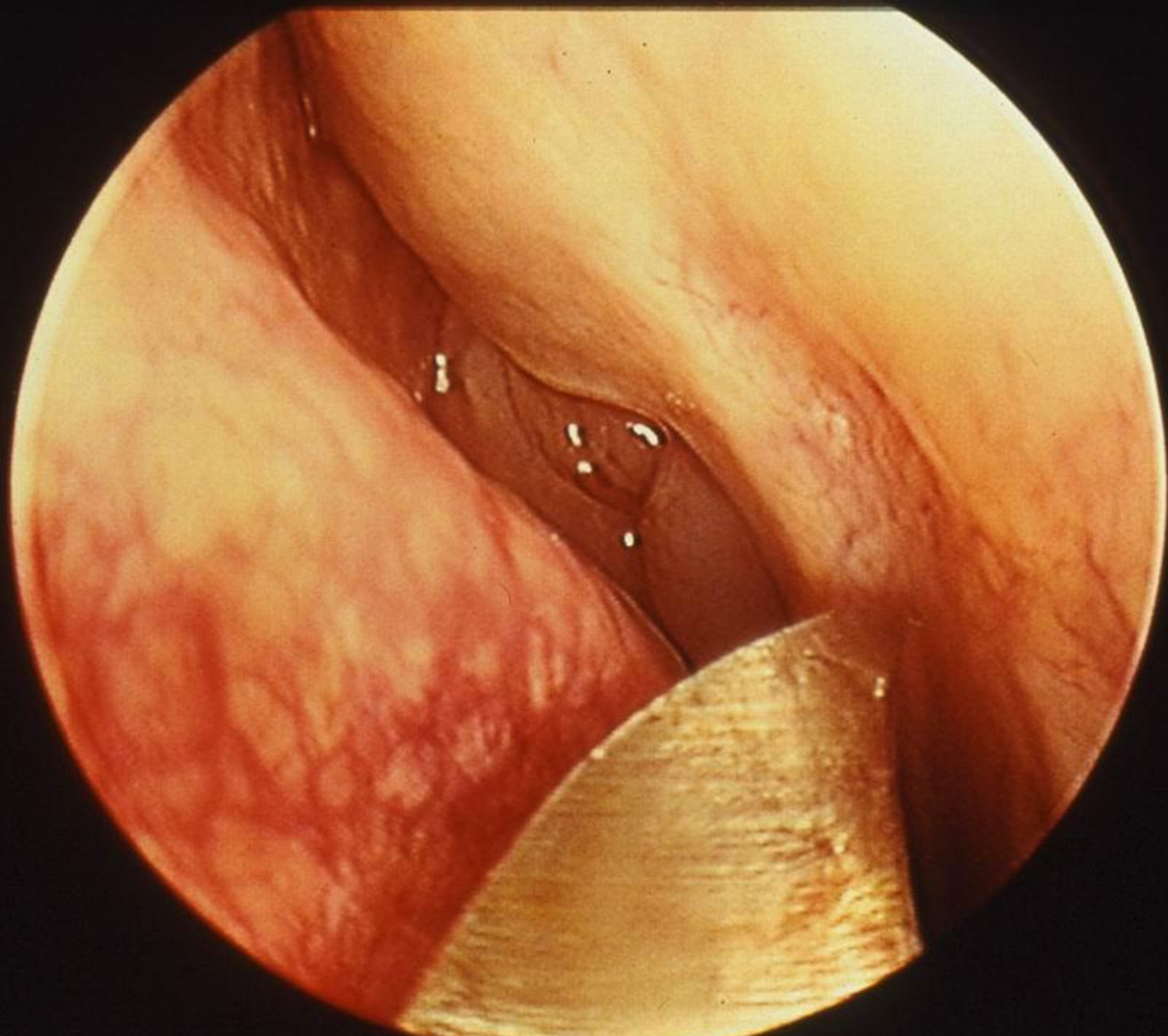
KỸ THUẬT MỔ

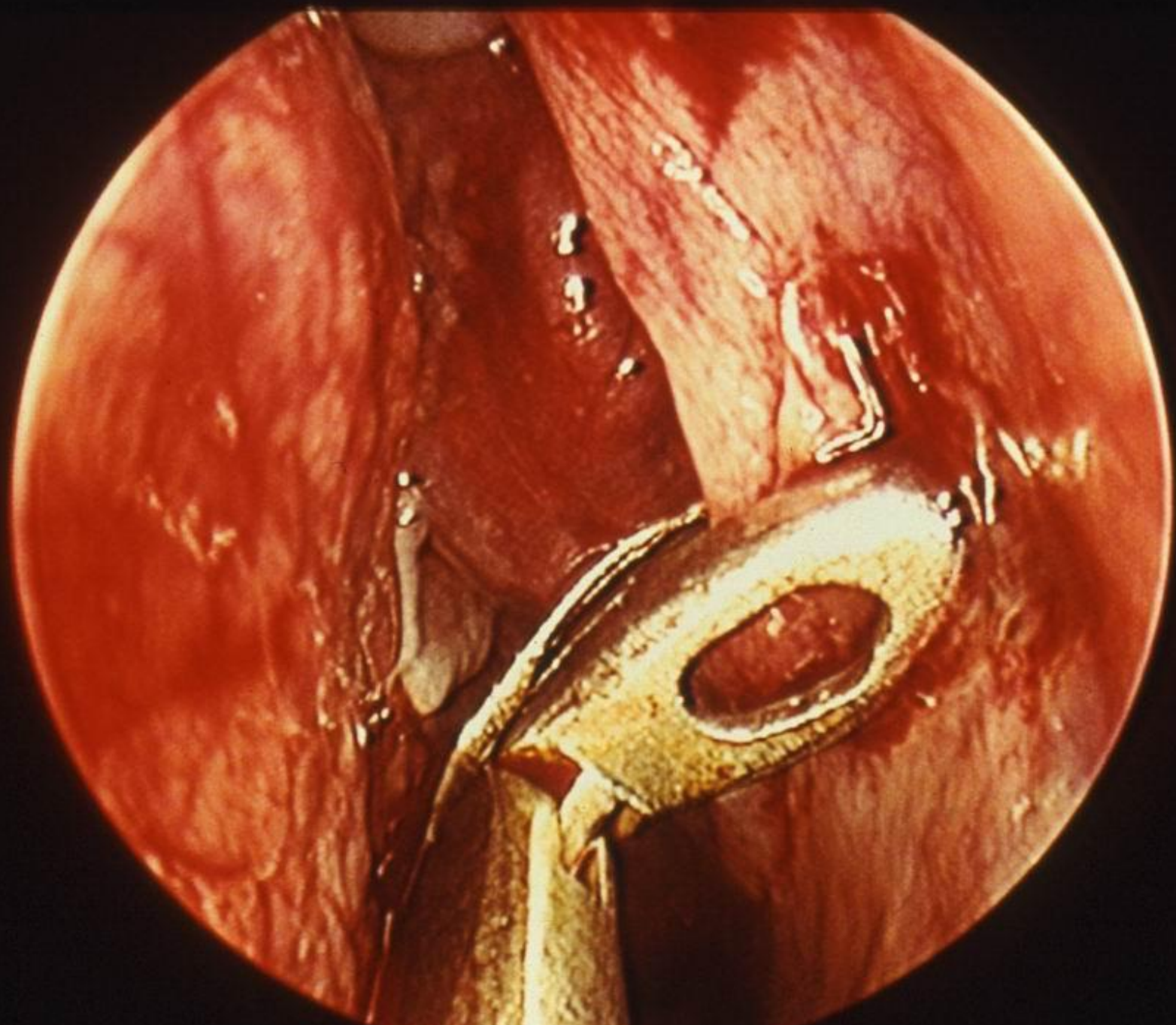
NỘI SOI MŨI XOANG

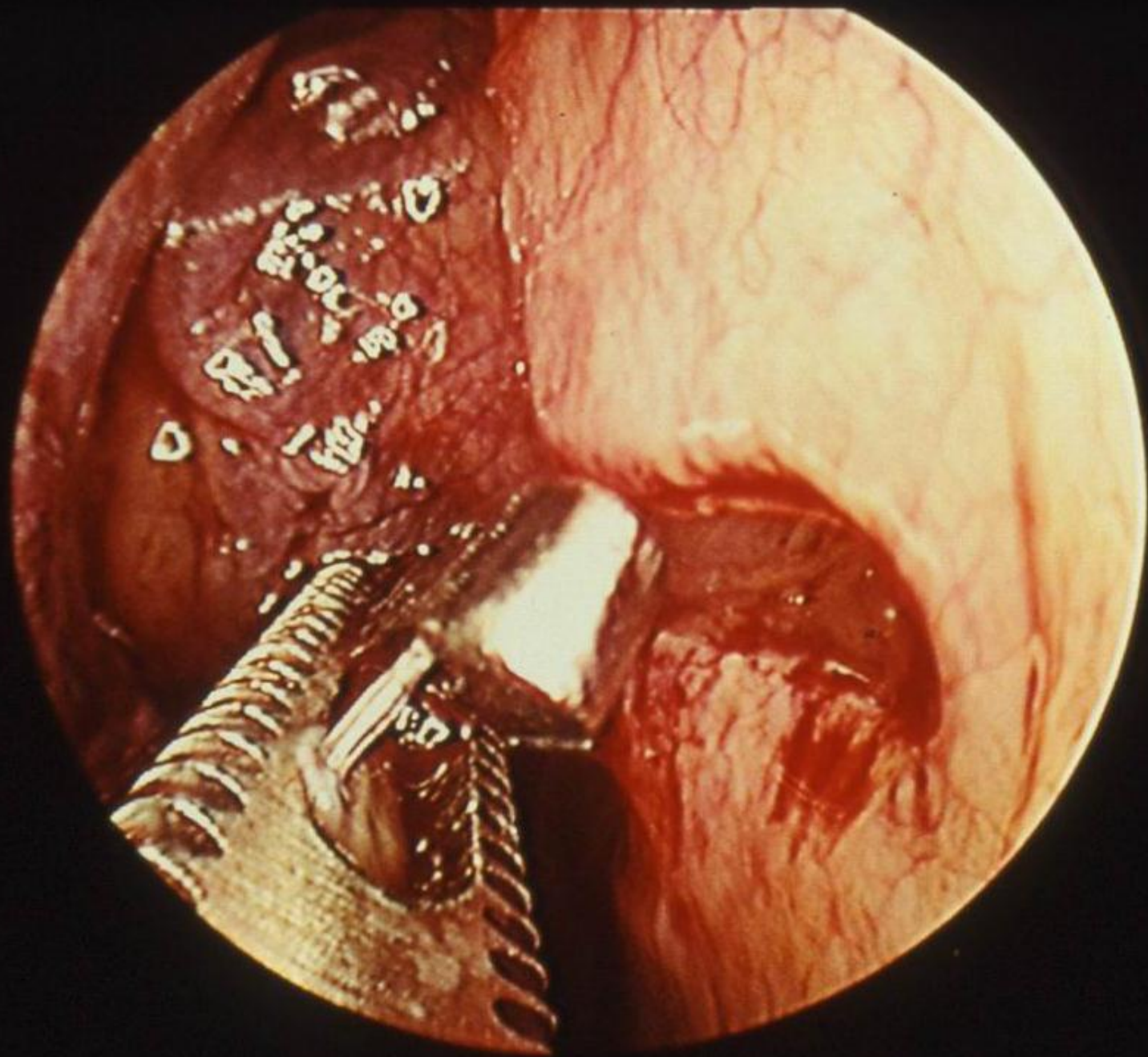
KỸ THUẬT VÔ CẢM

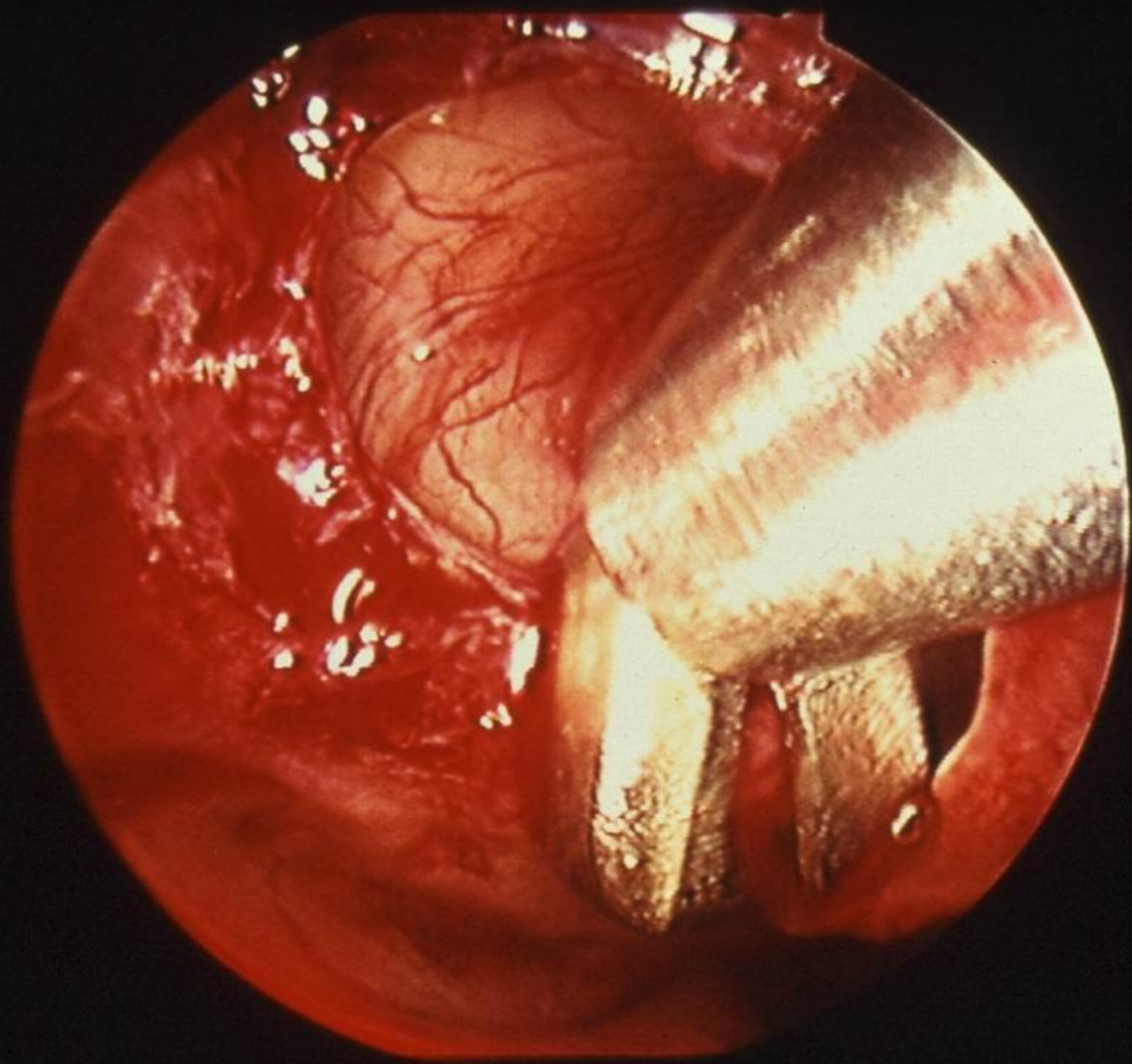


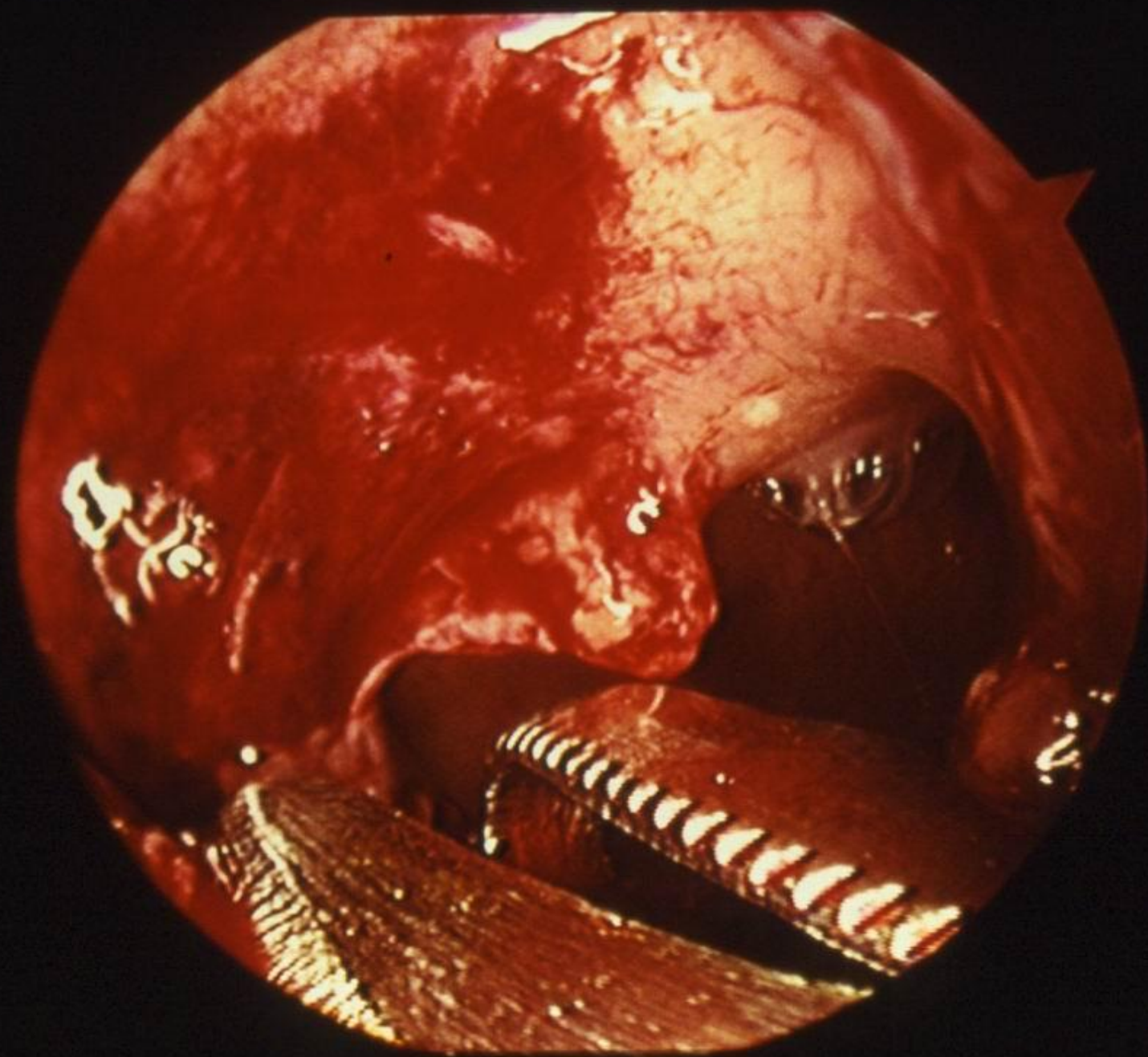


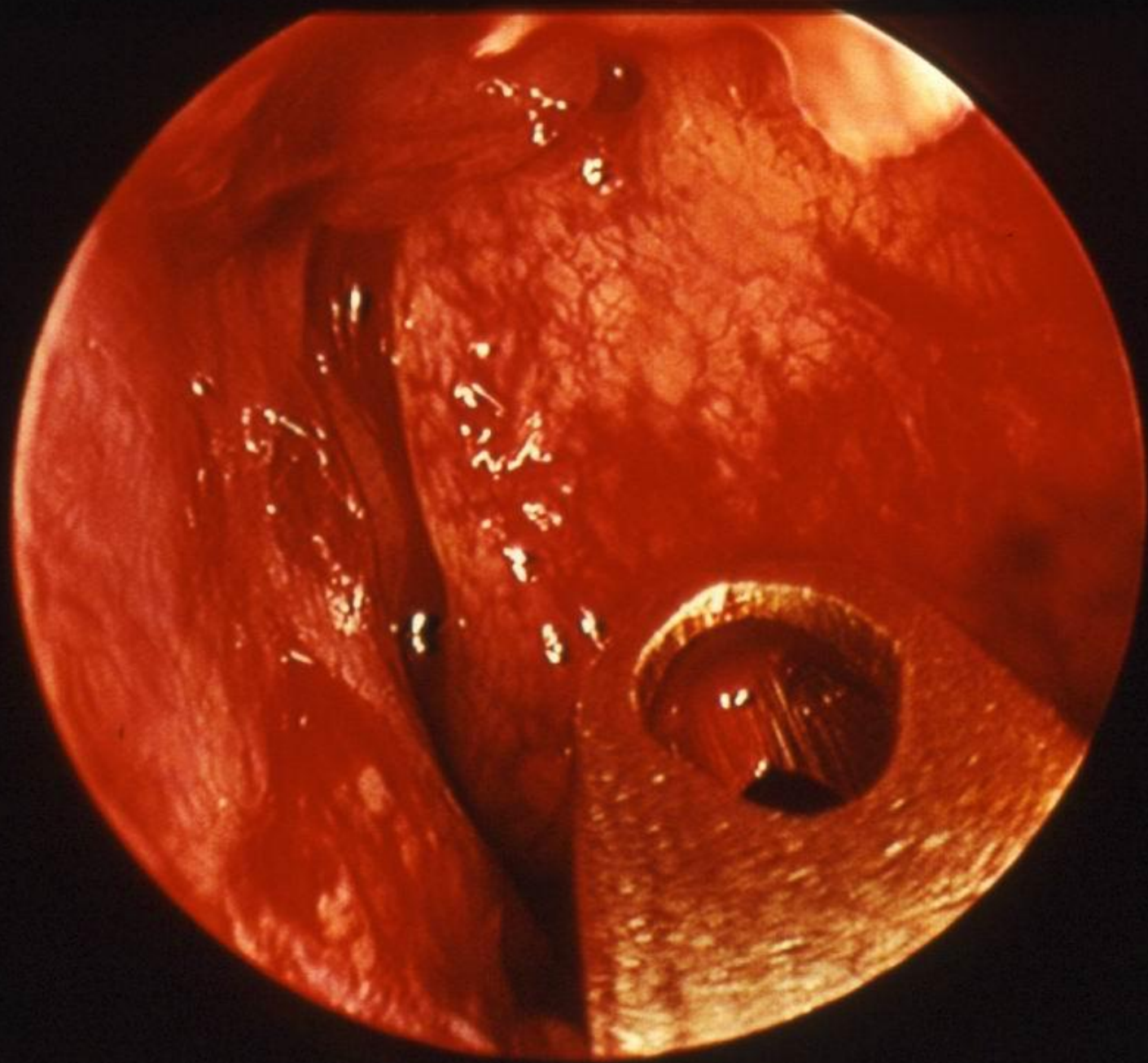


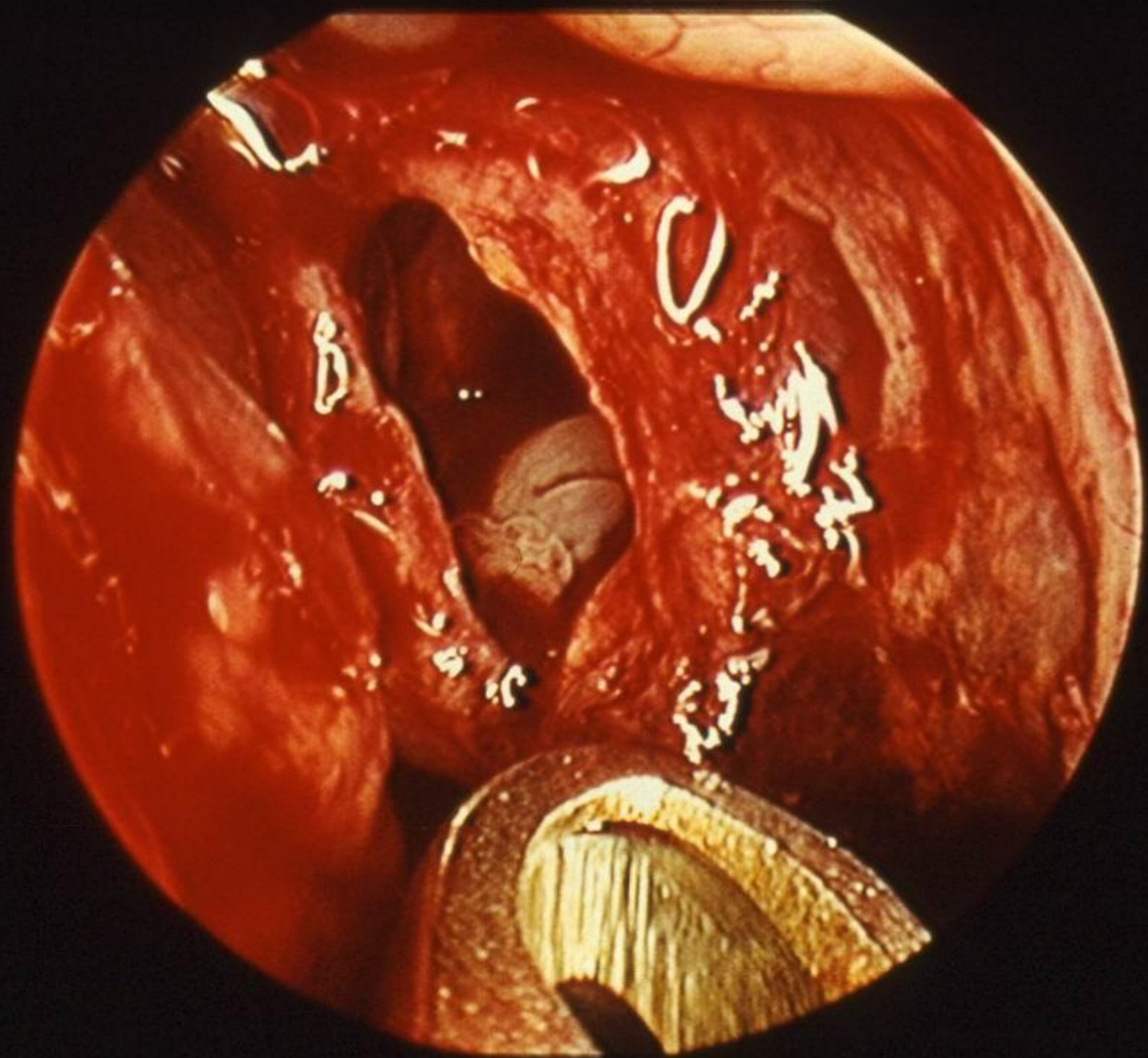


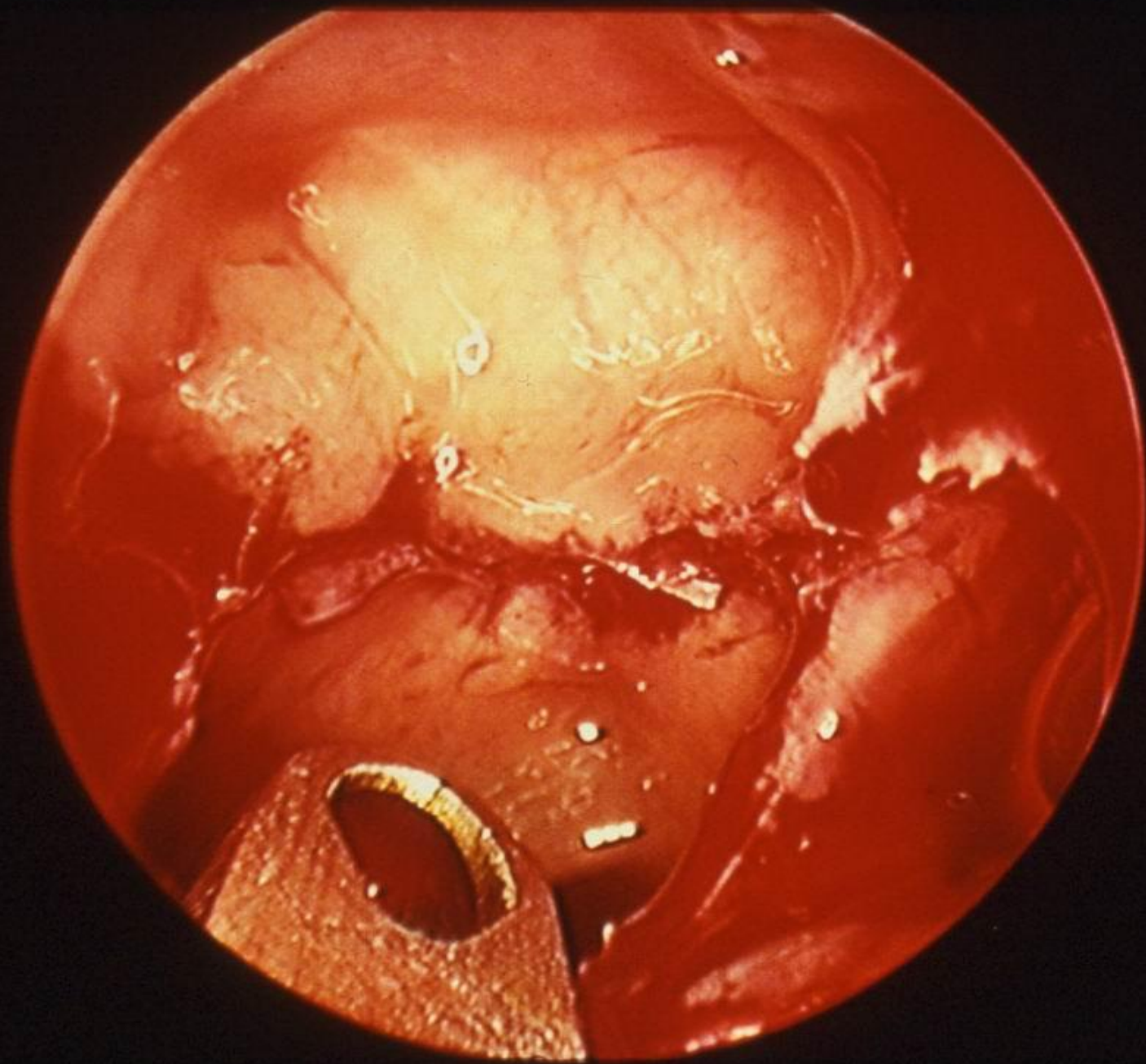


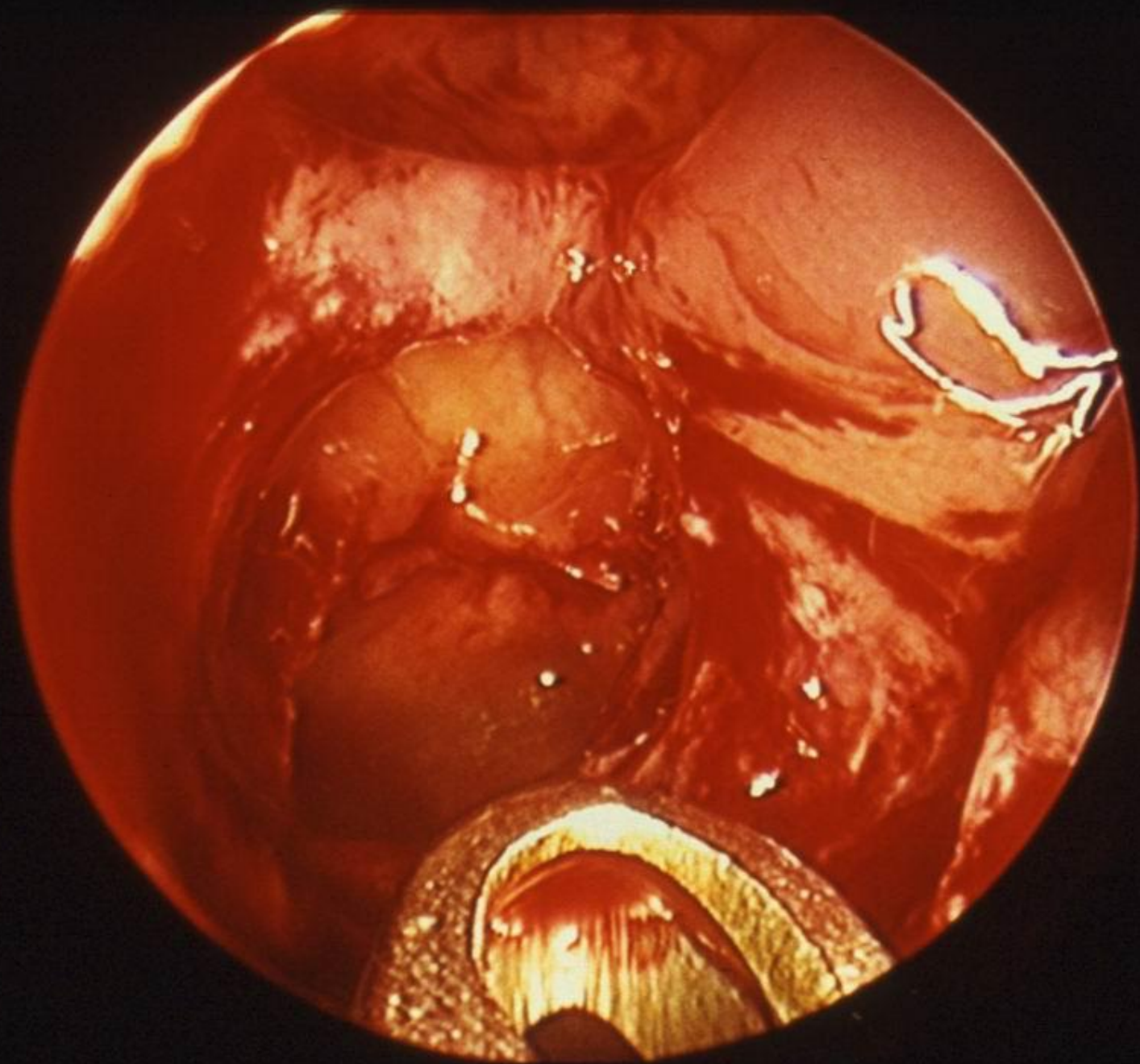


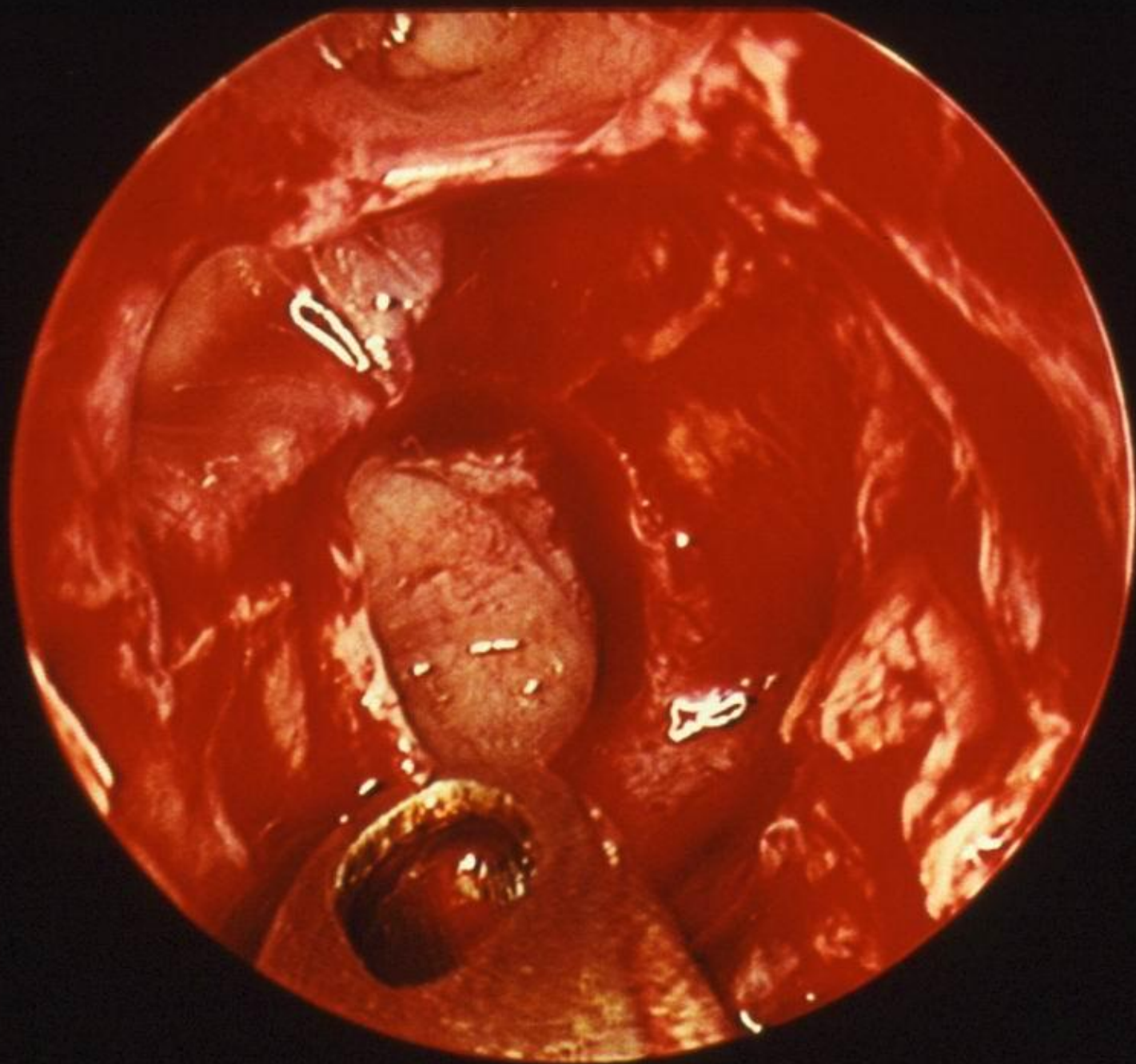


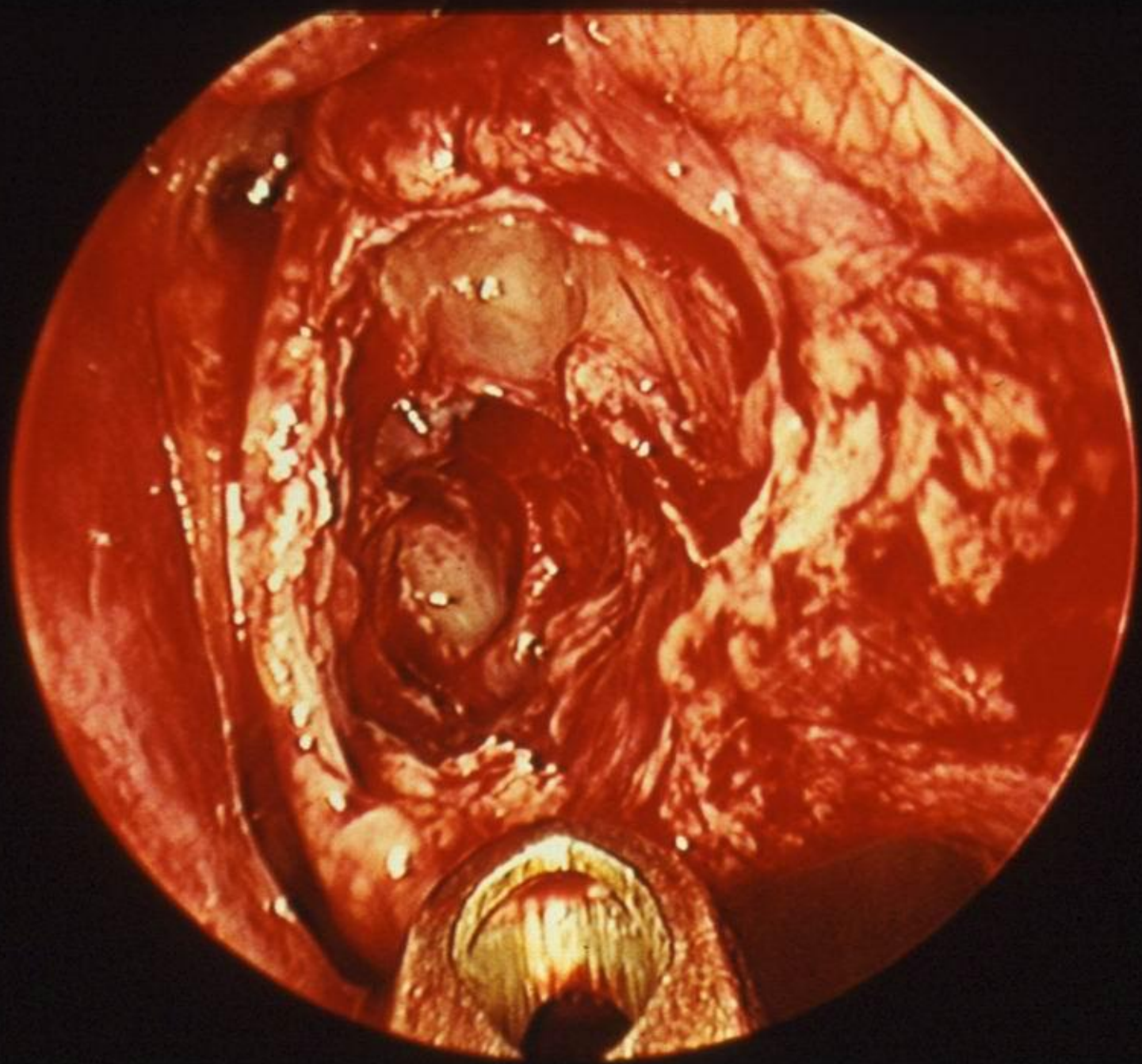


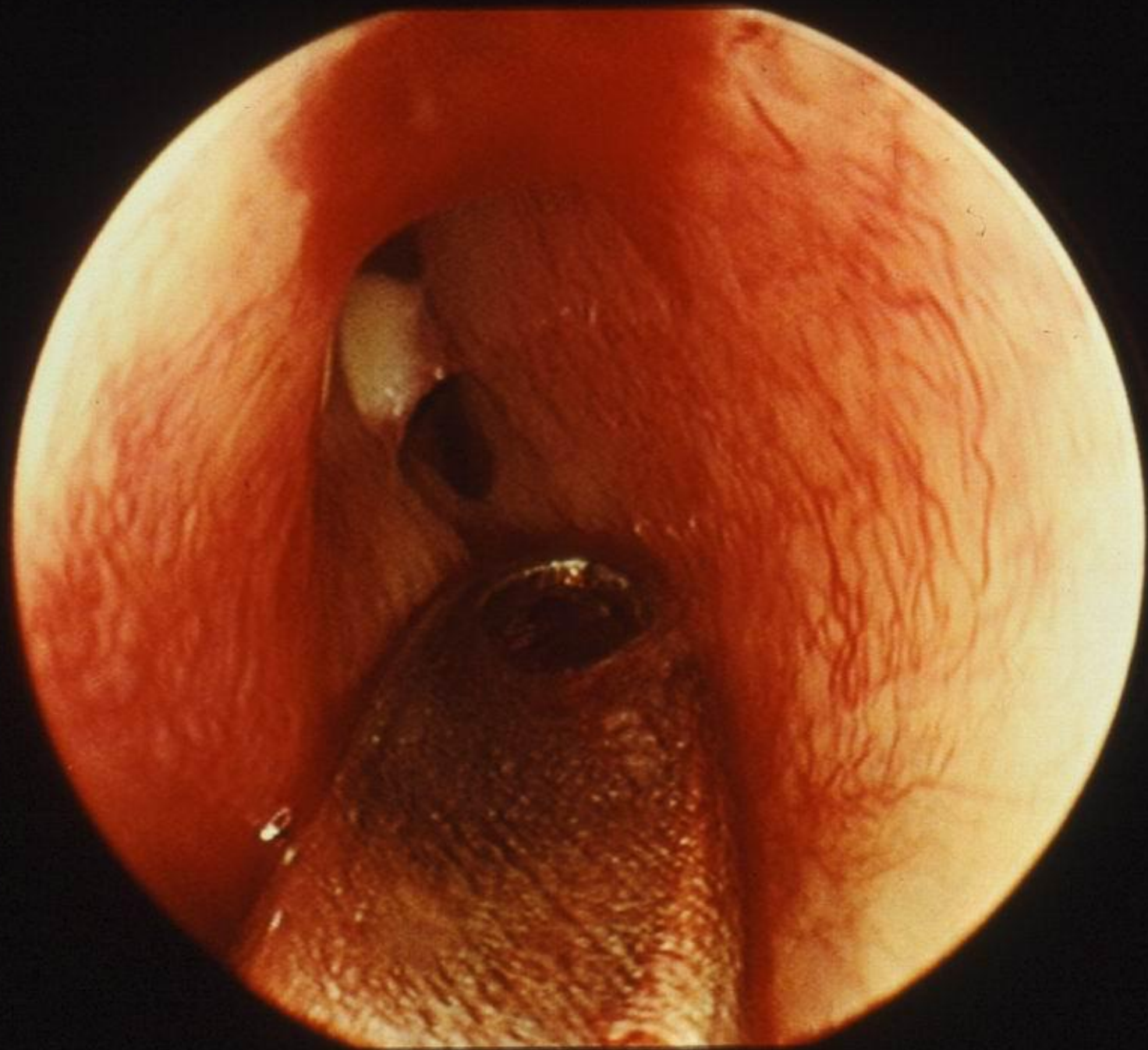


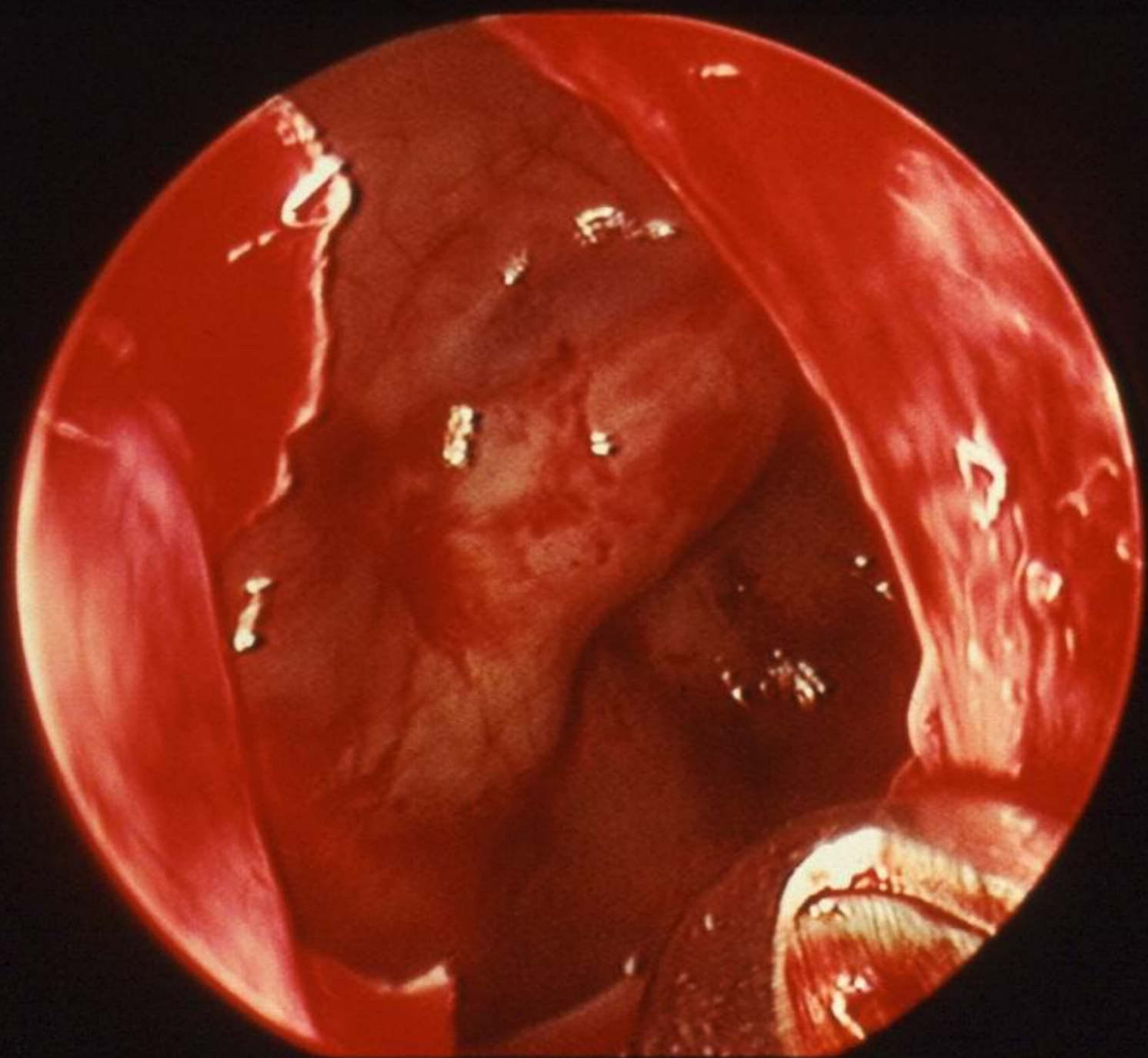






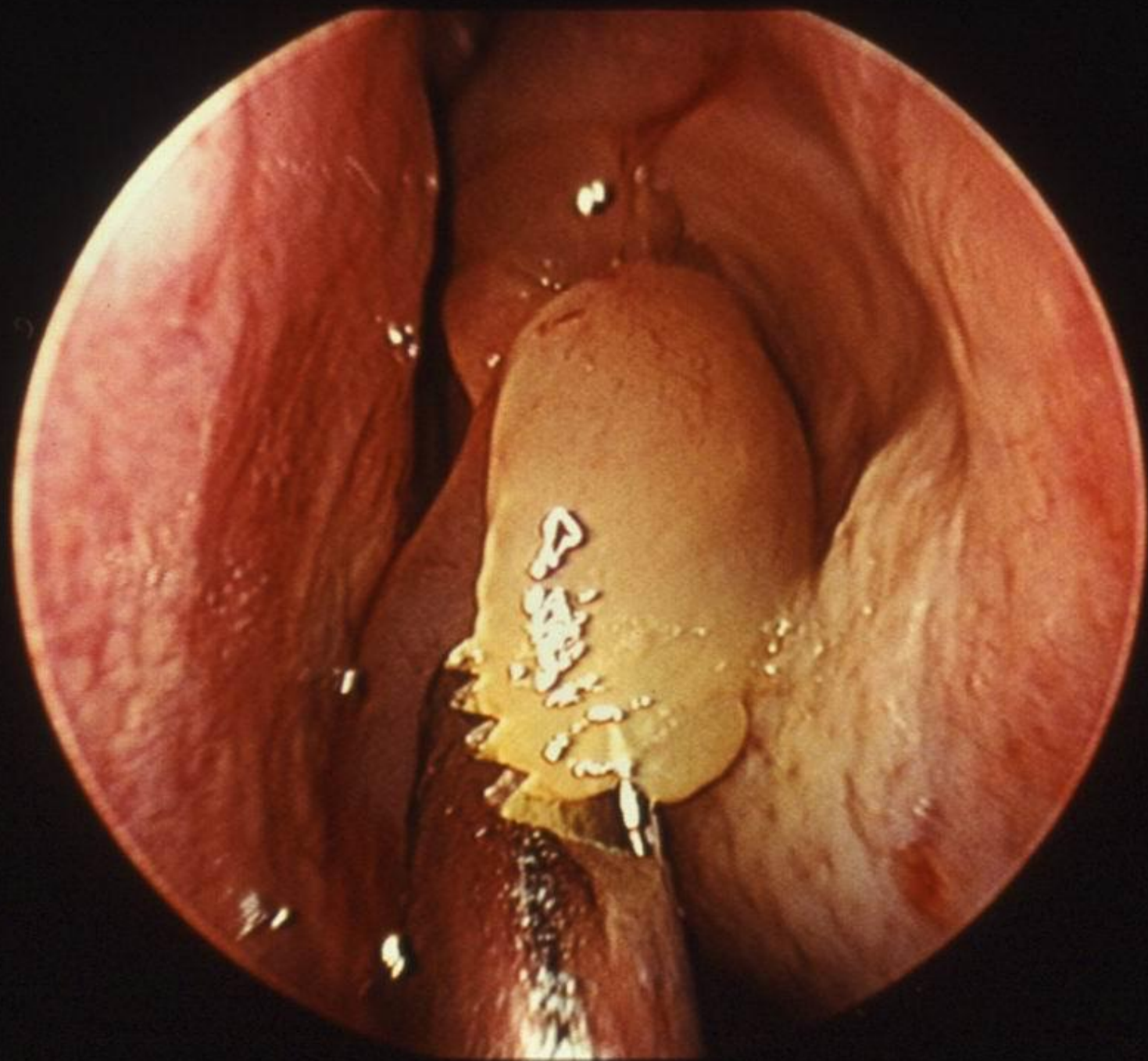




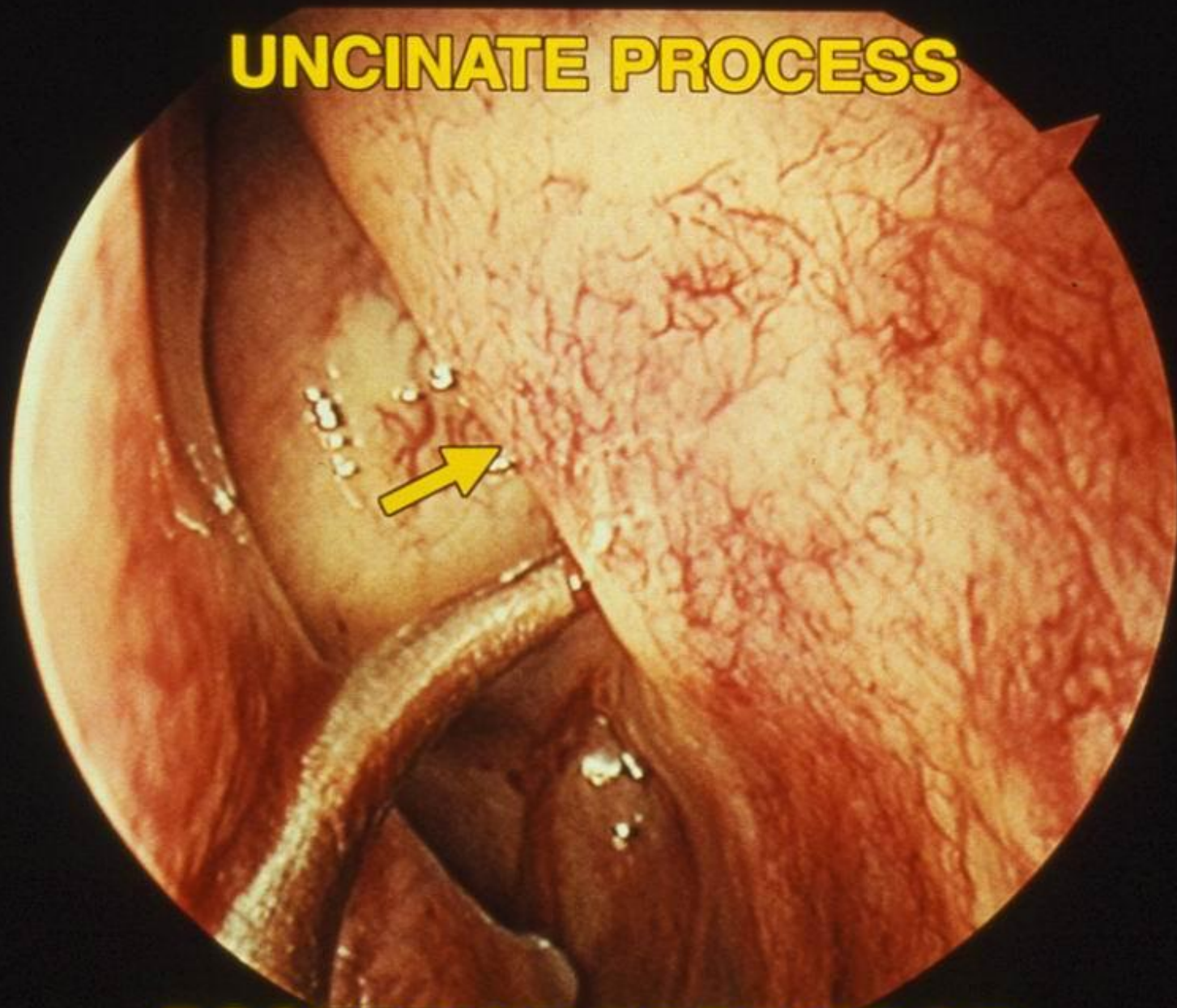


PESS

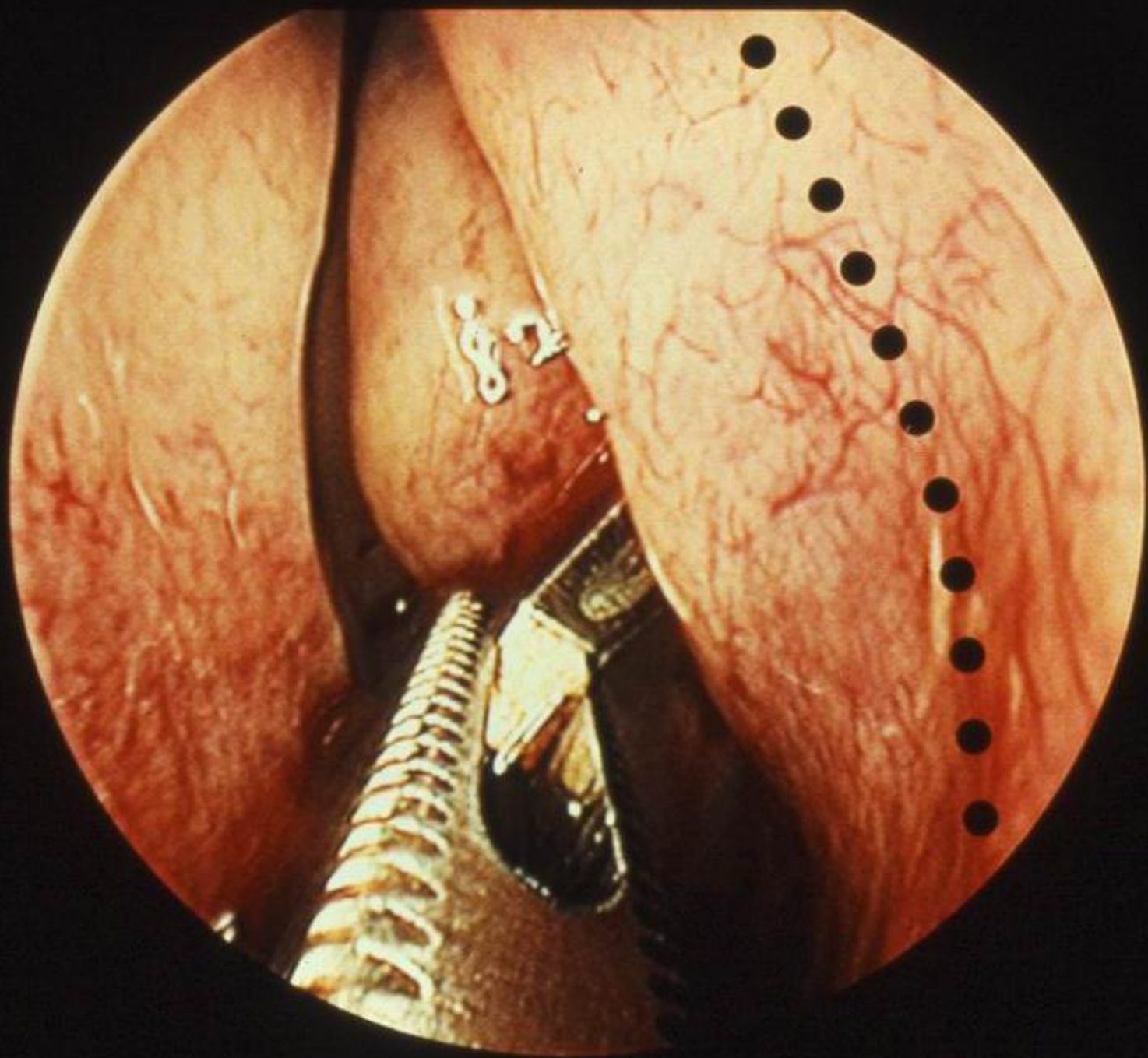
POWERED ENDOSCOPIC SINUS SURGERY

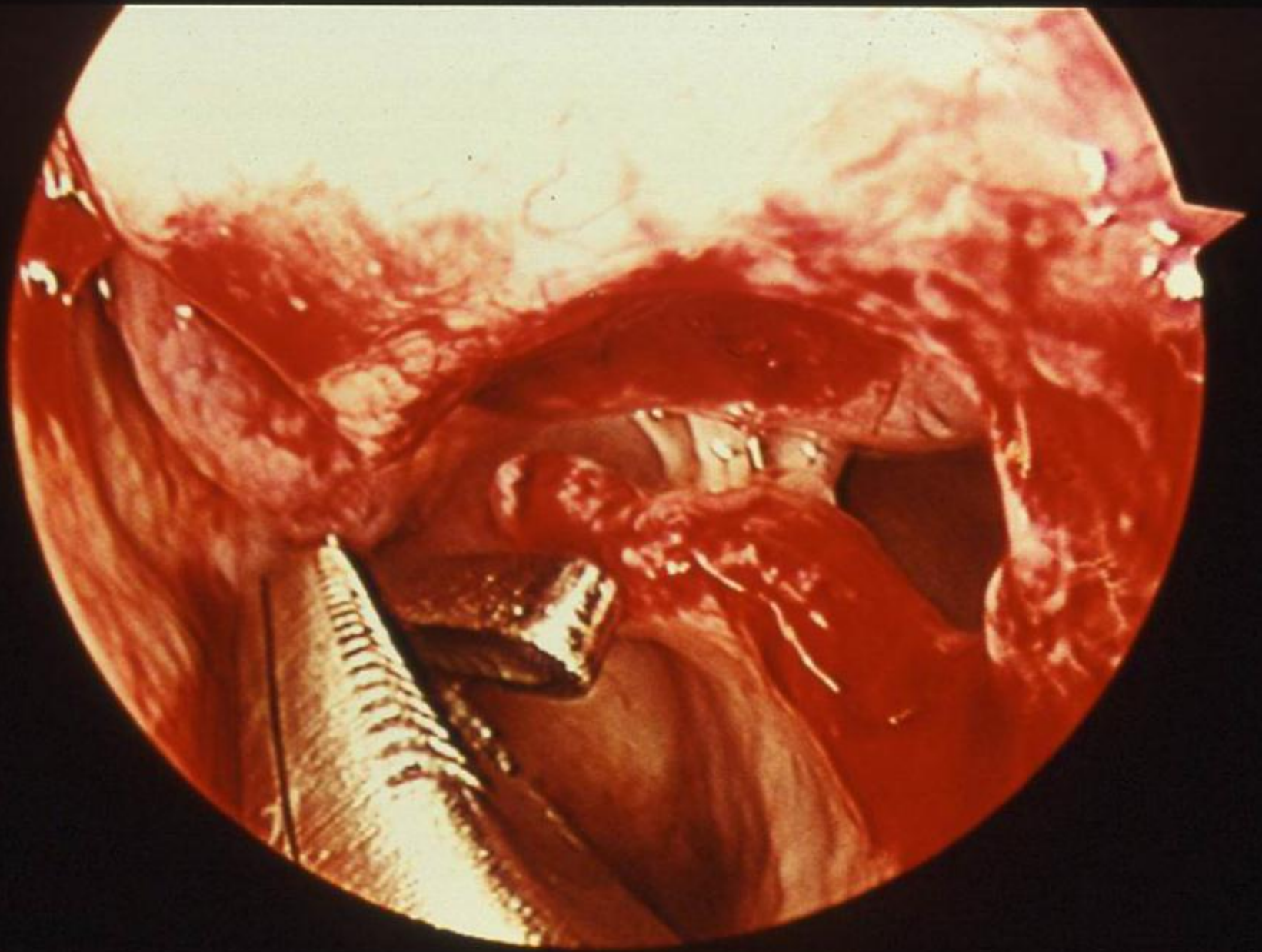


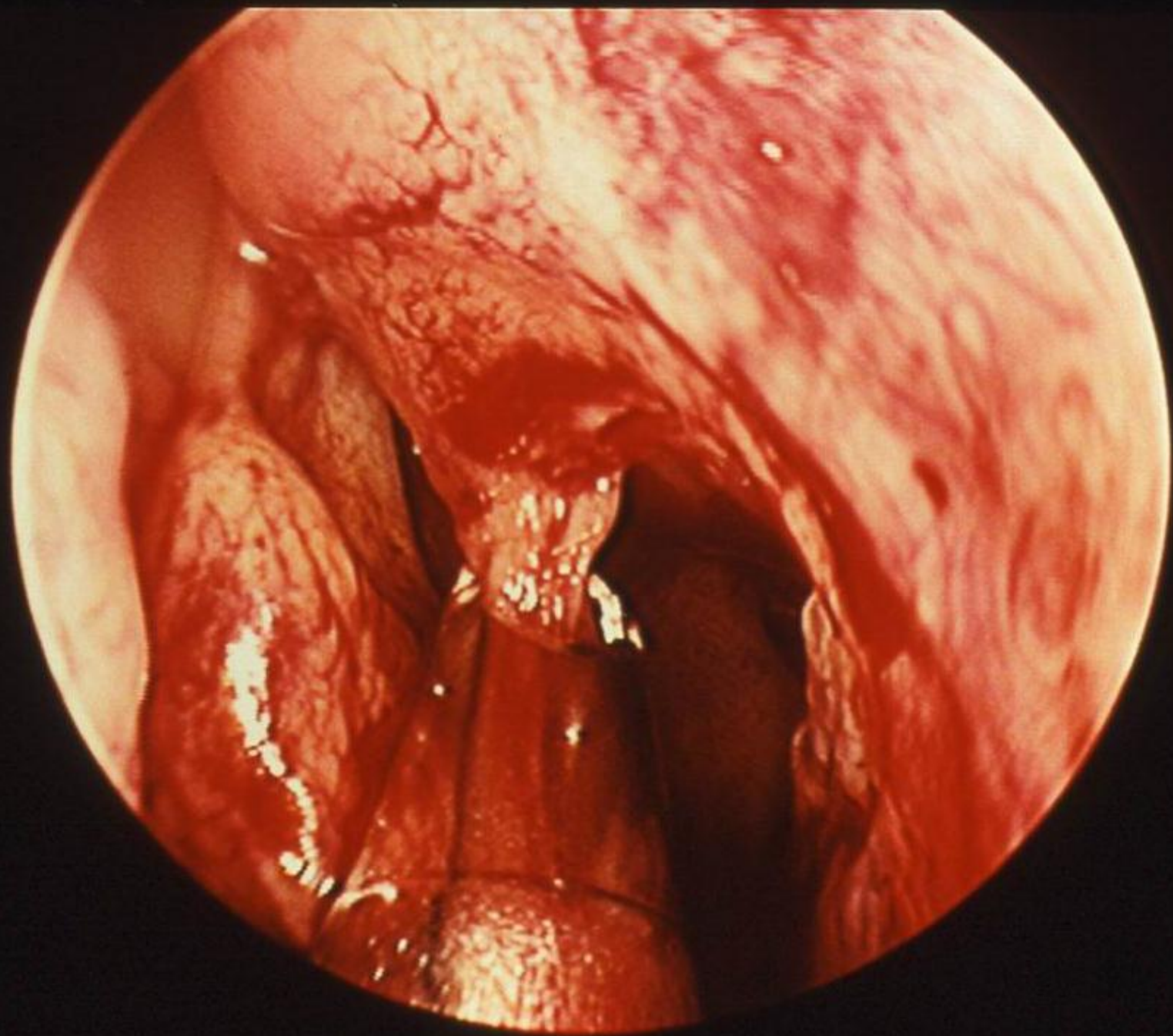
UNCINATE PROCESS

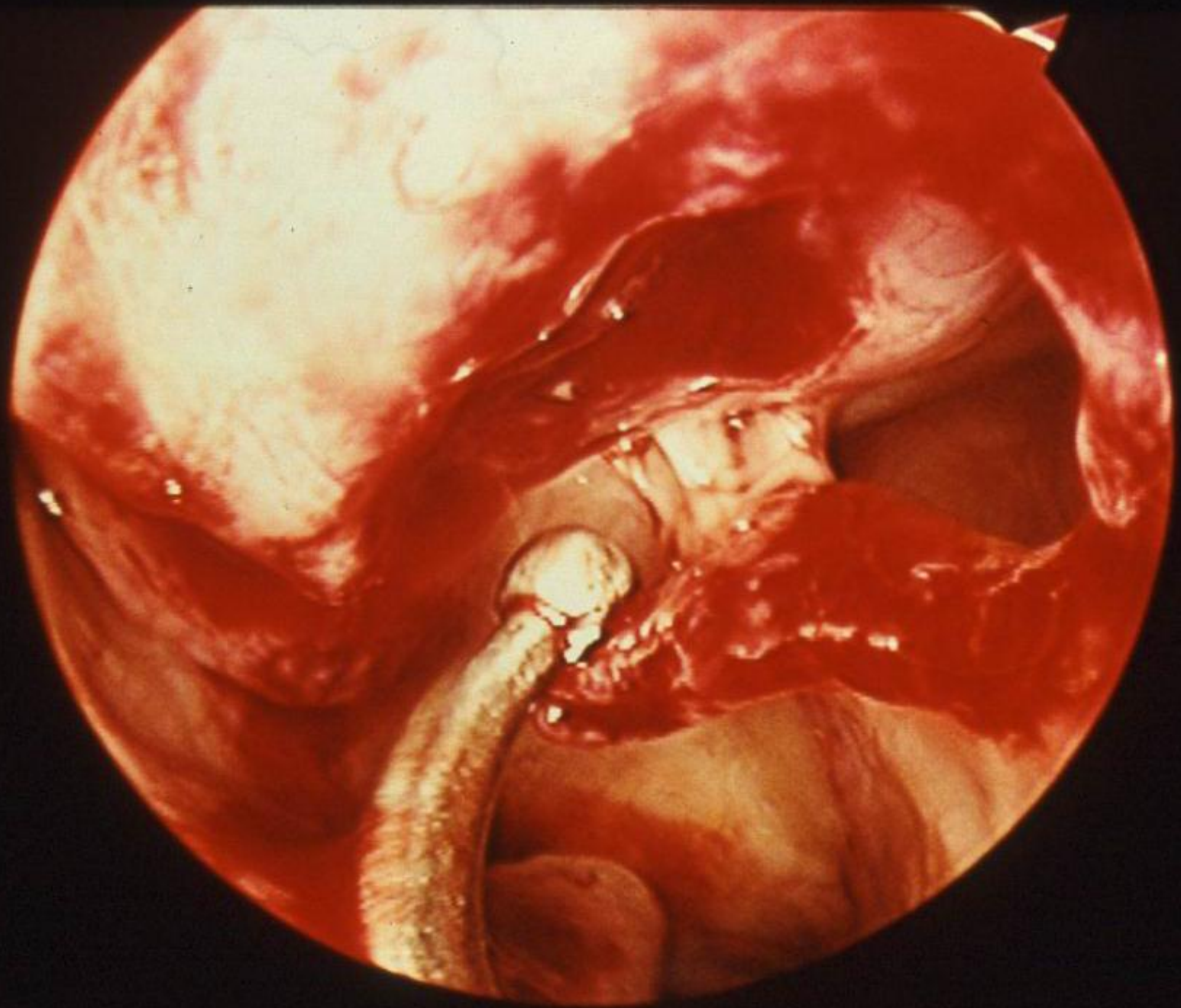


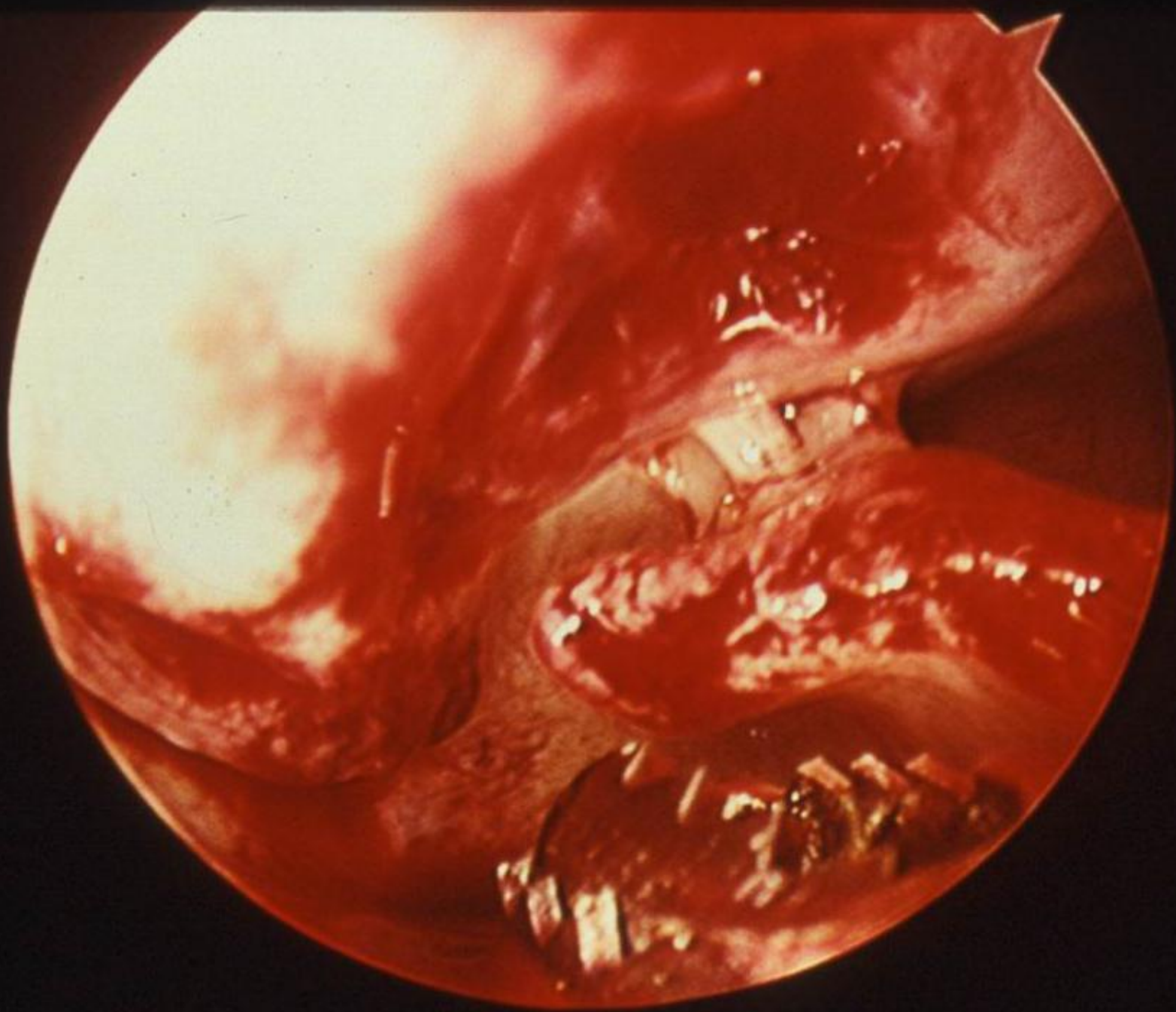
POSTERIOR FREE EDGE

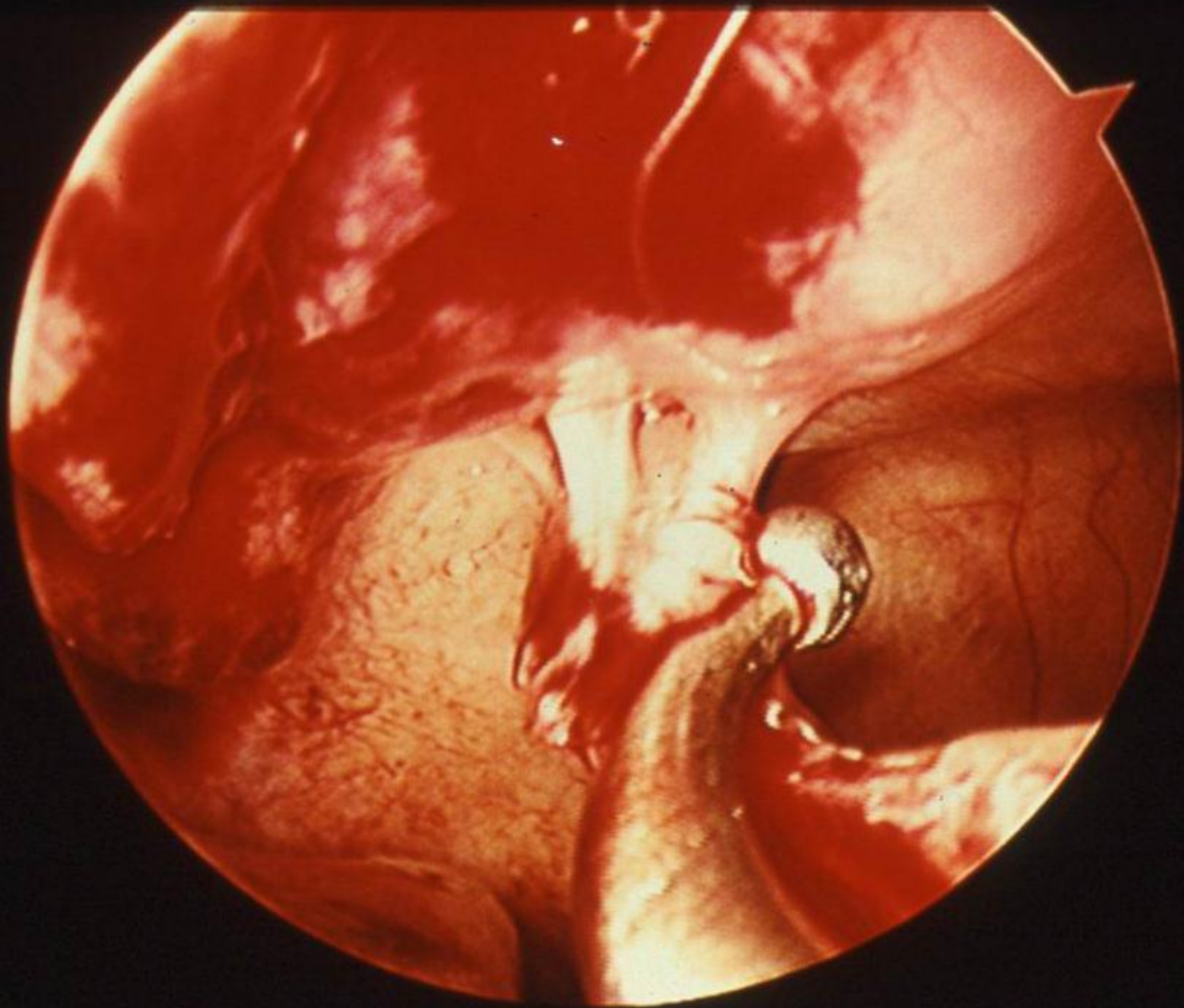


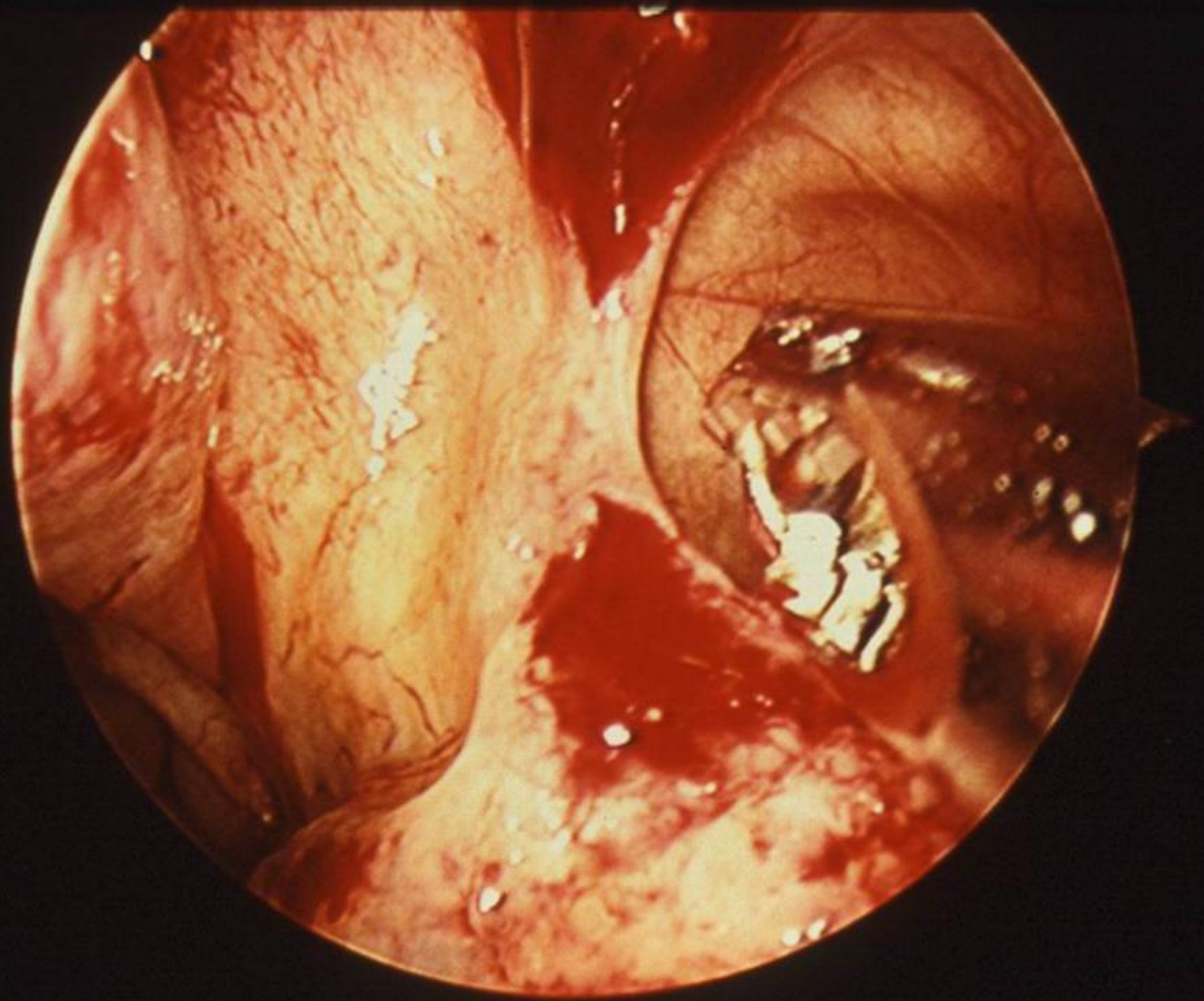


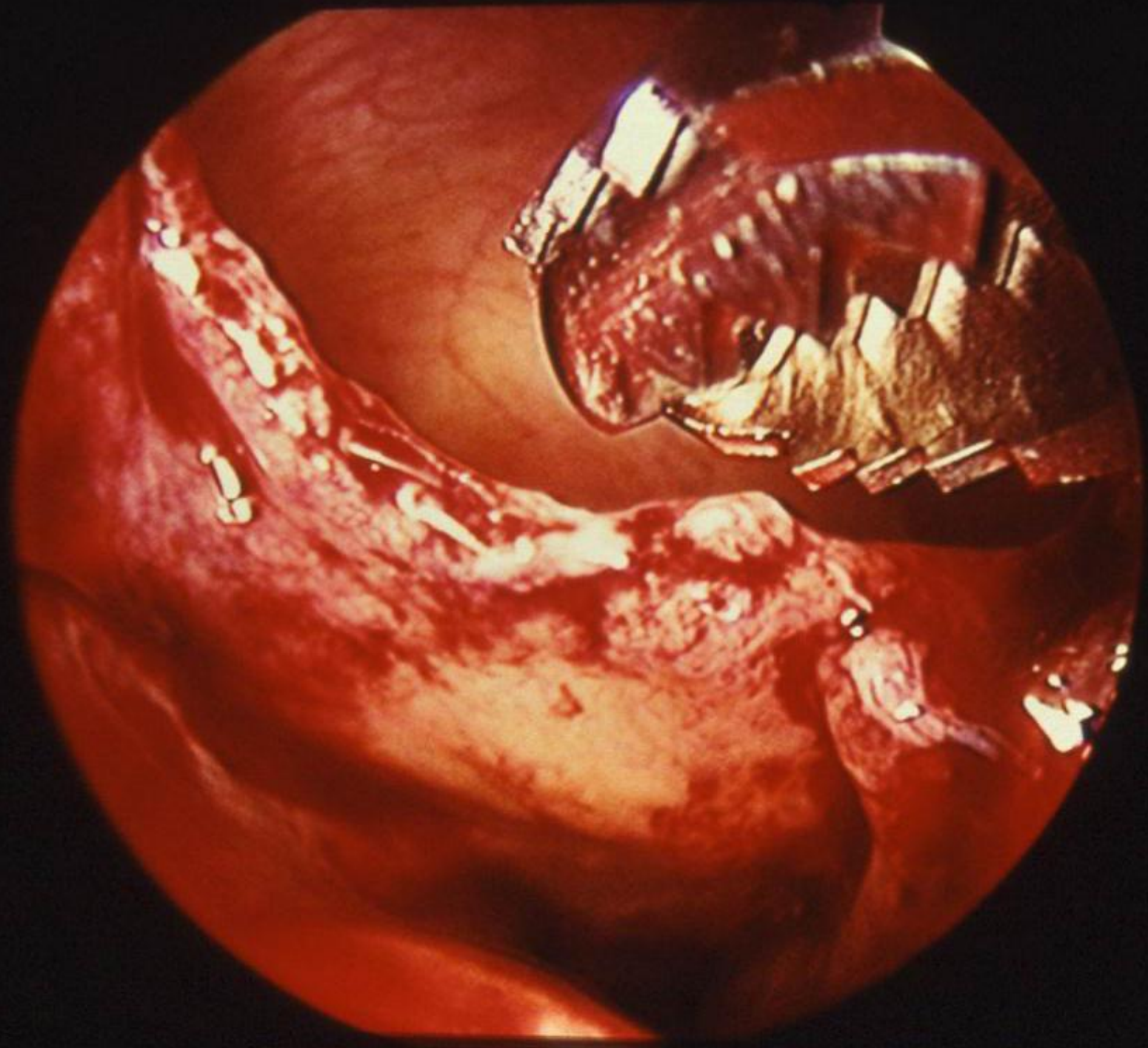


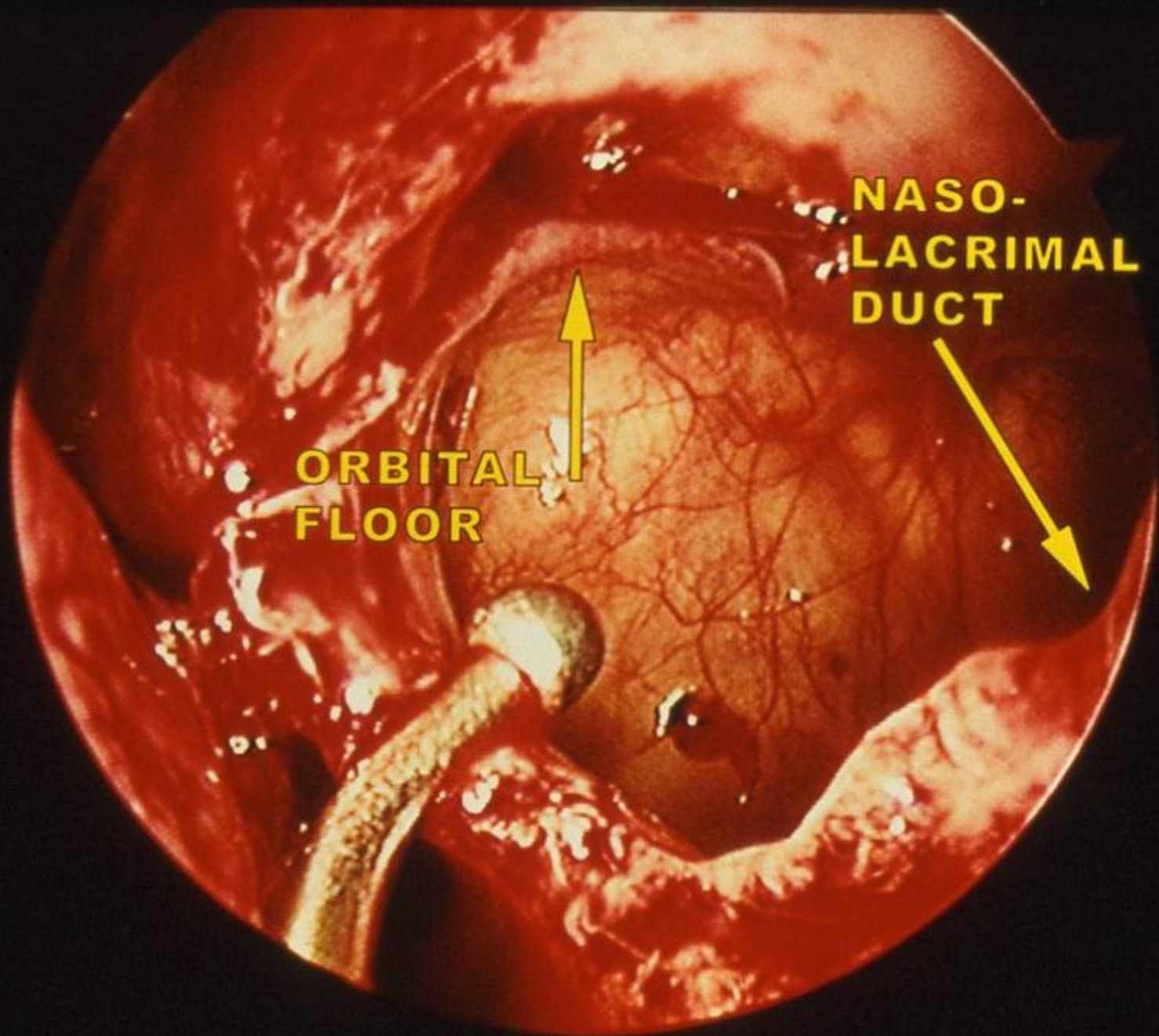


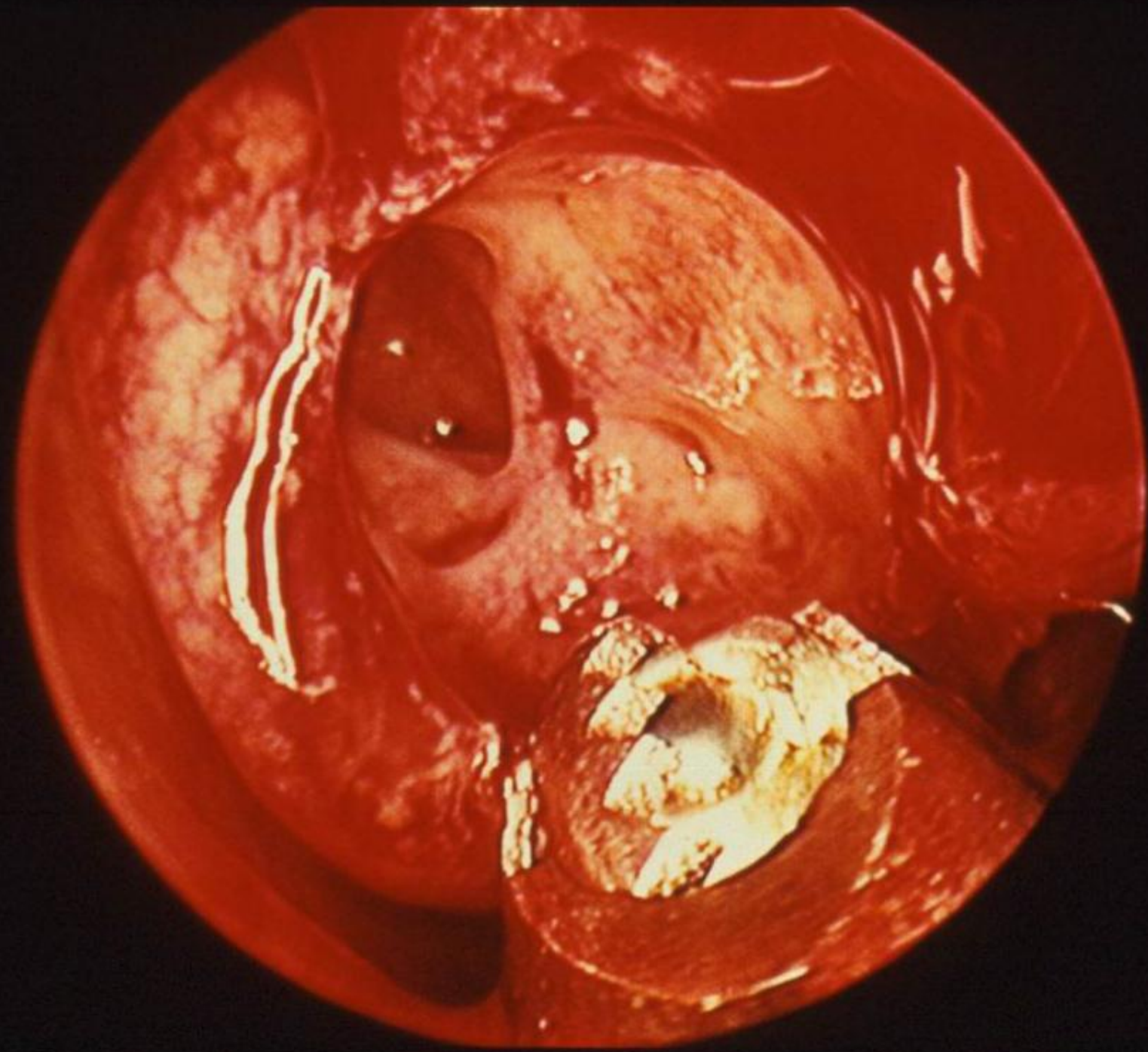


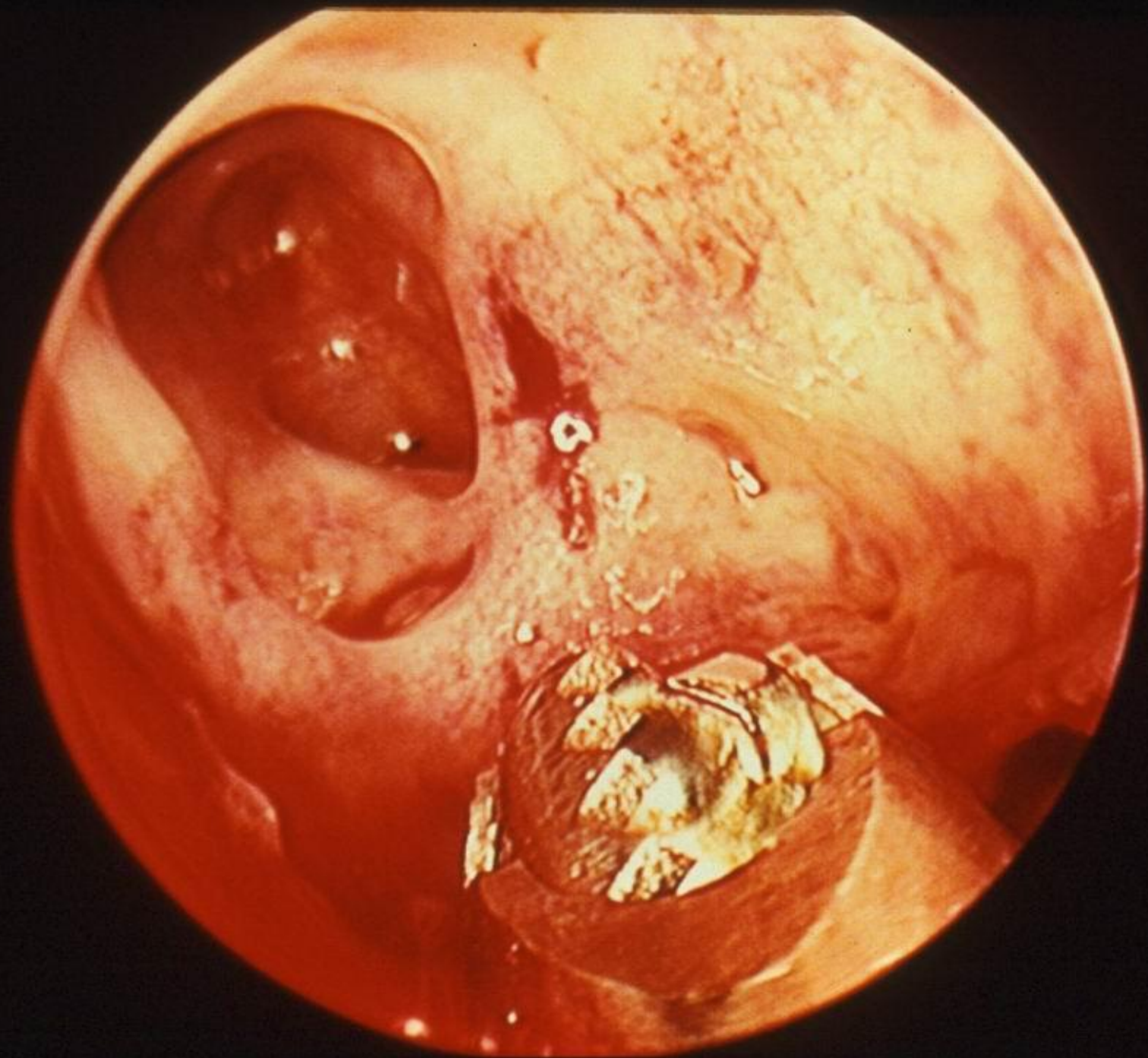


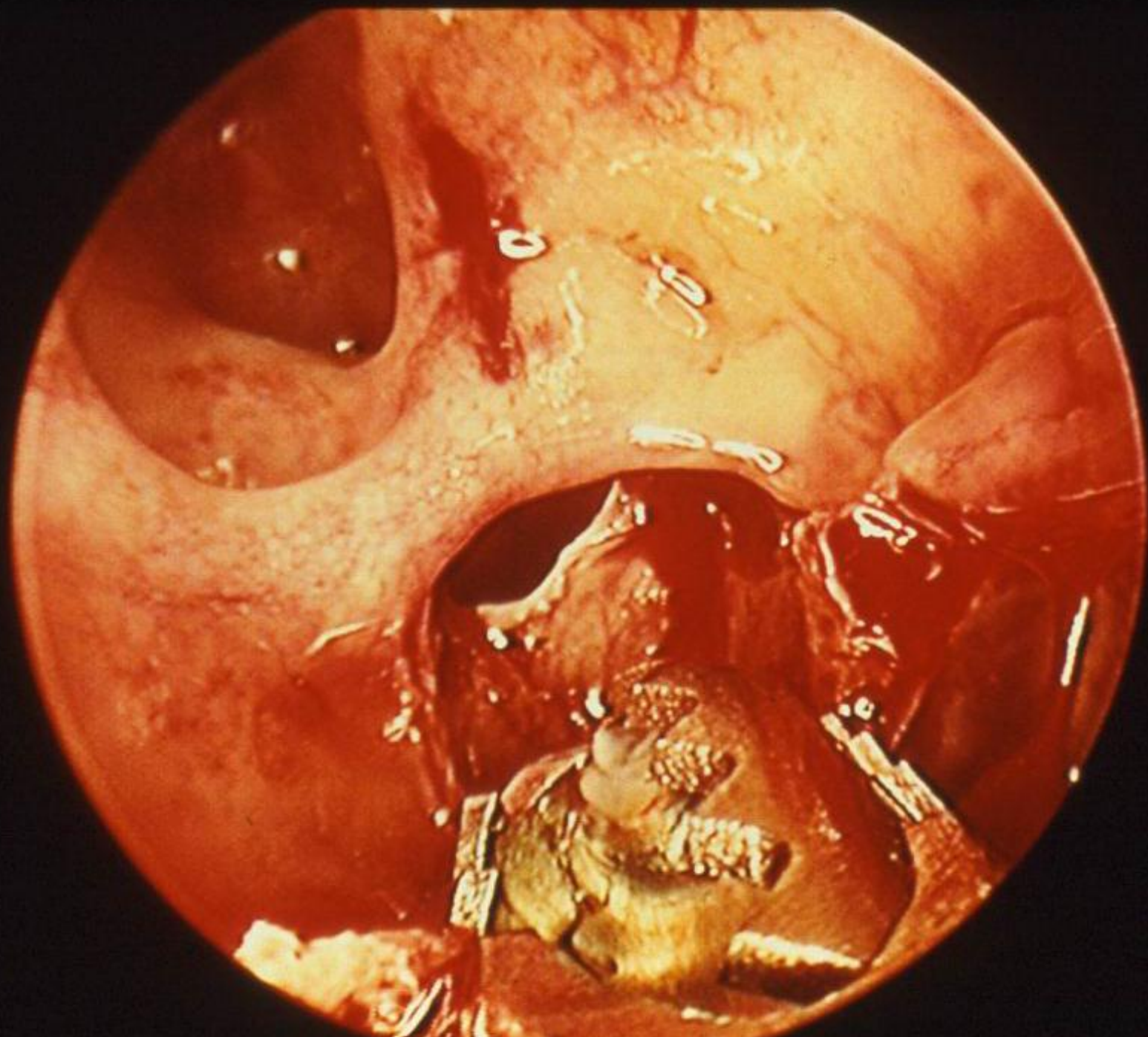






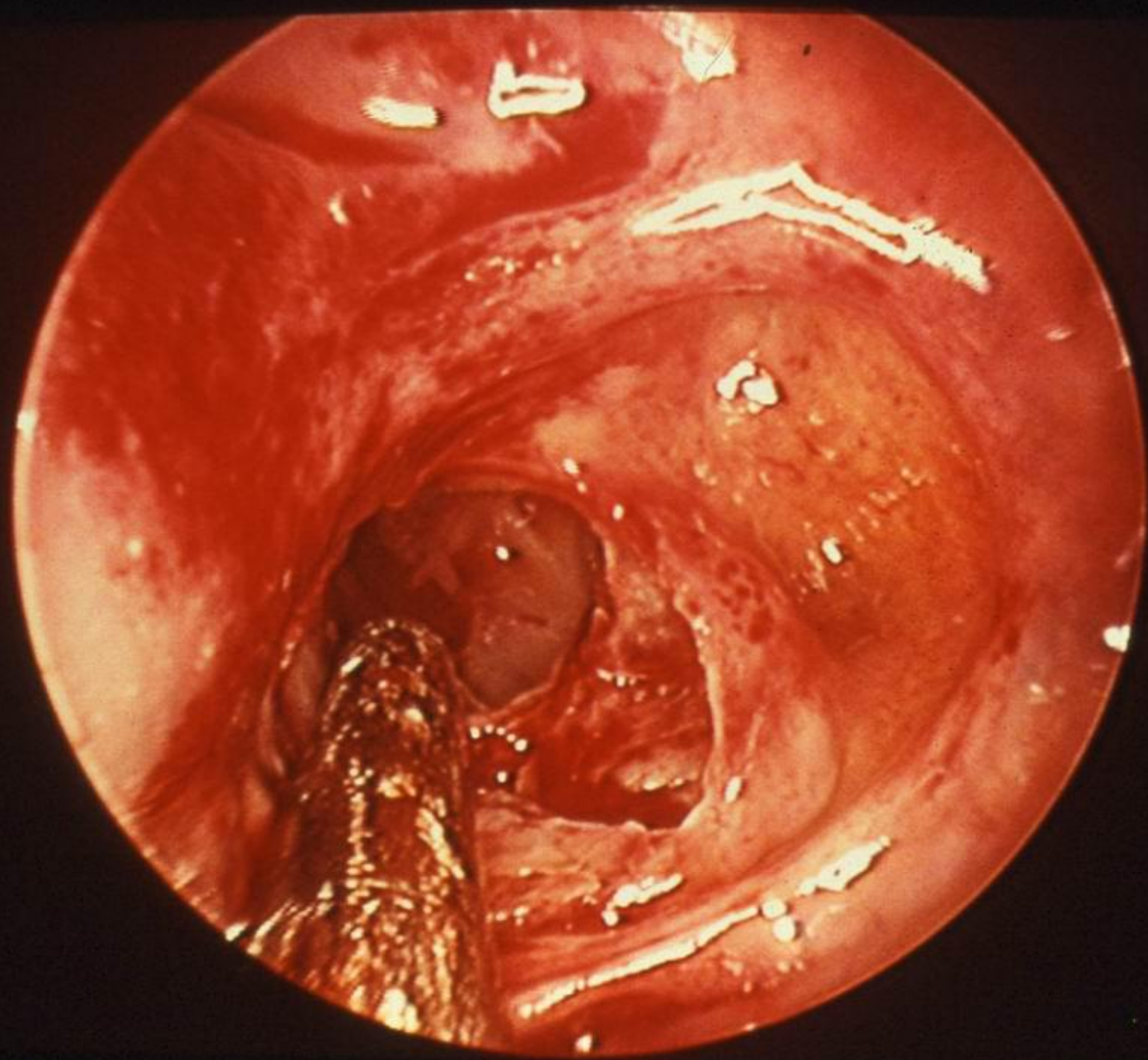


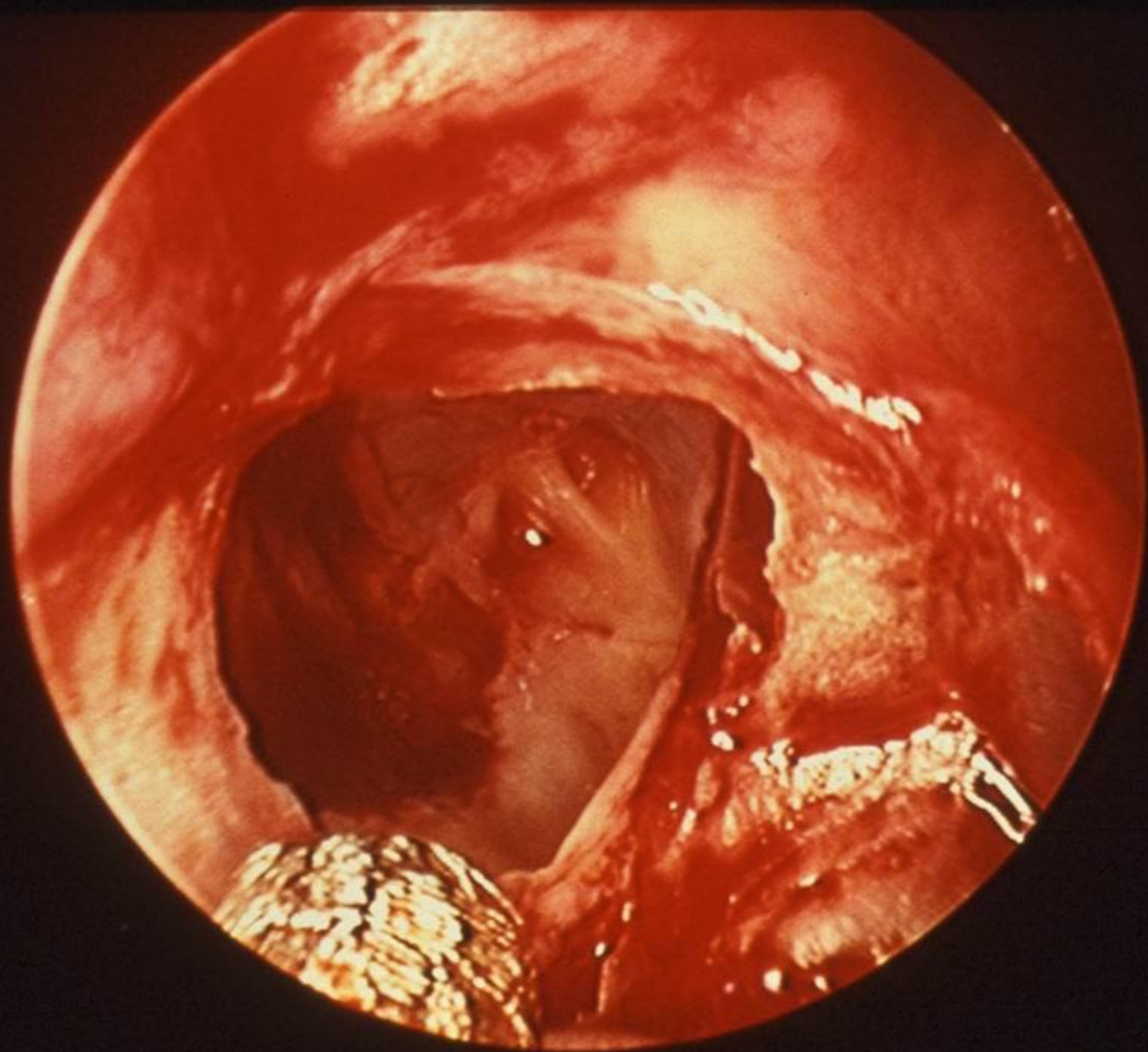






POSTERIOR ETHMOIDECTOMY

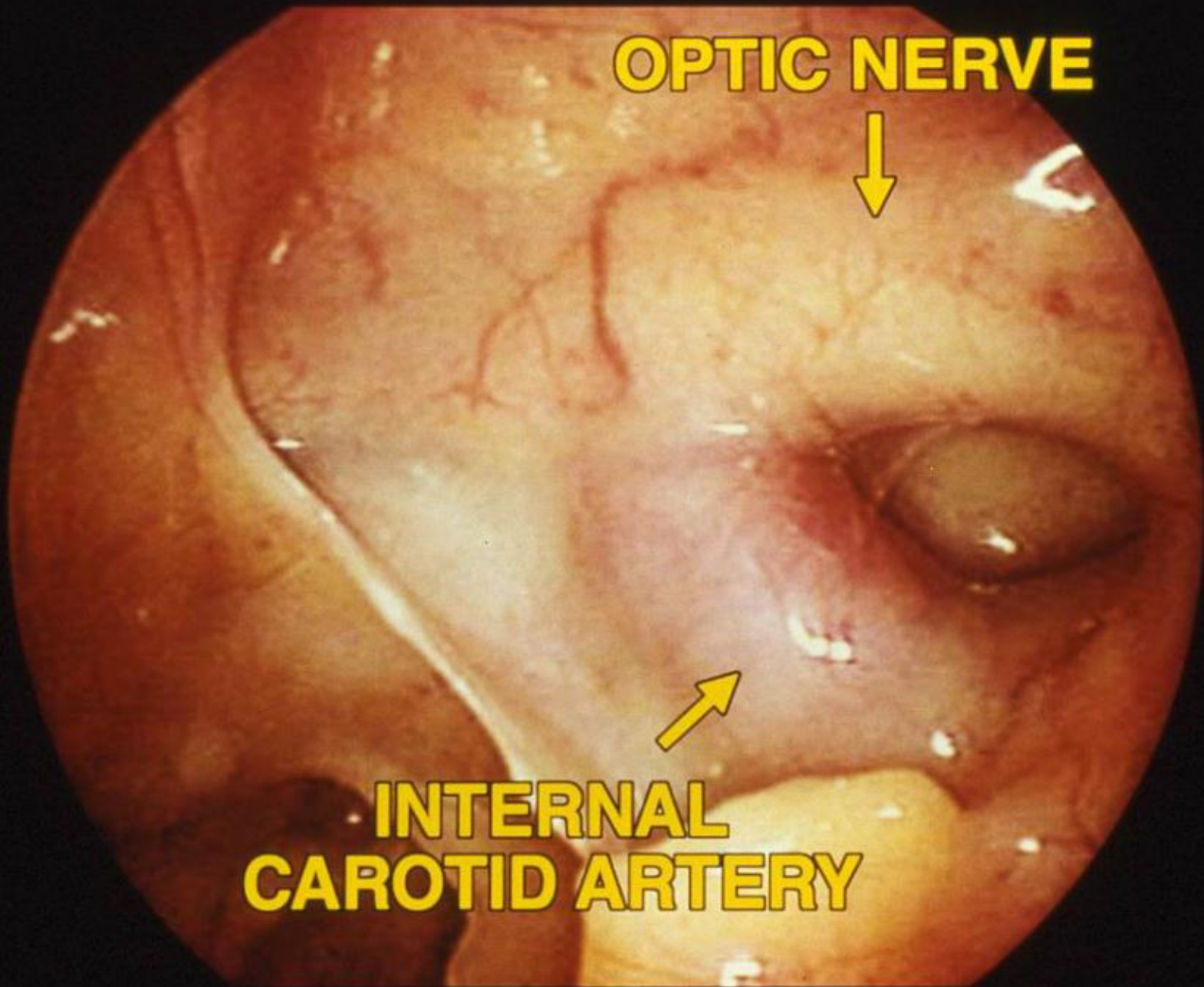


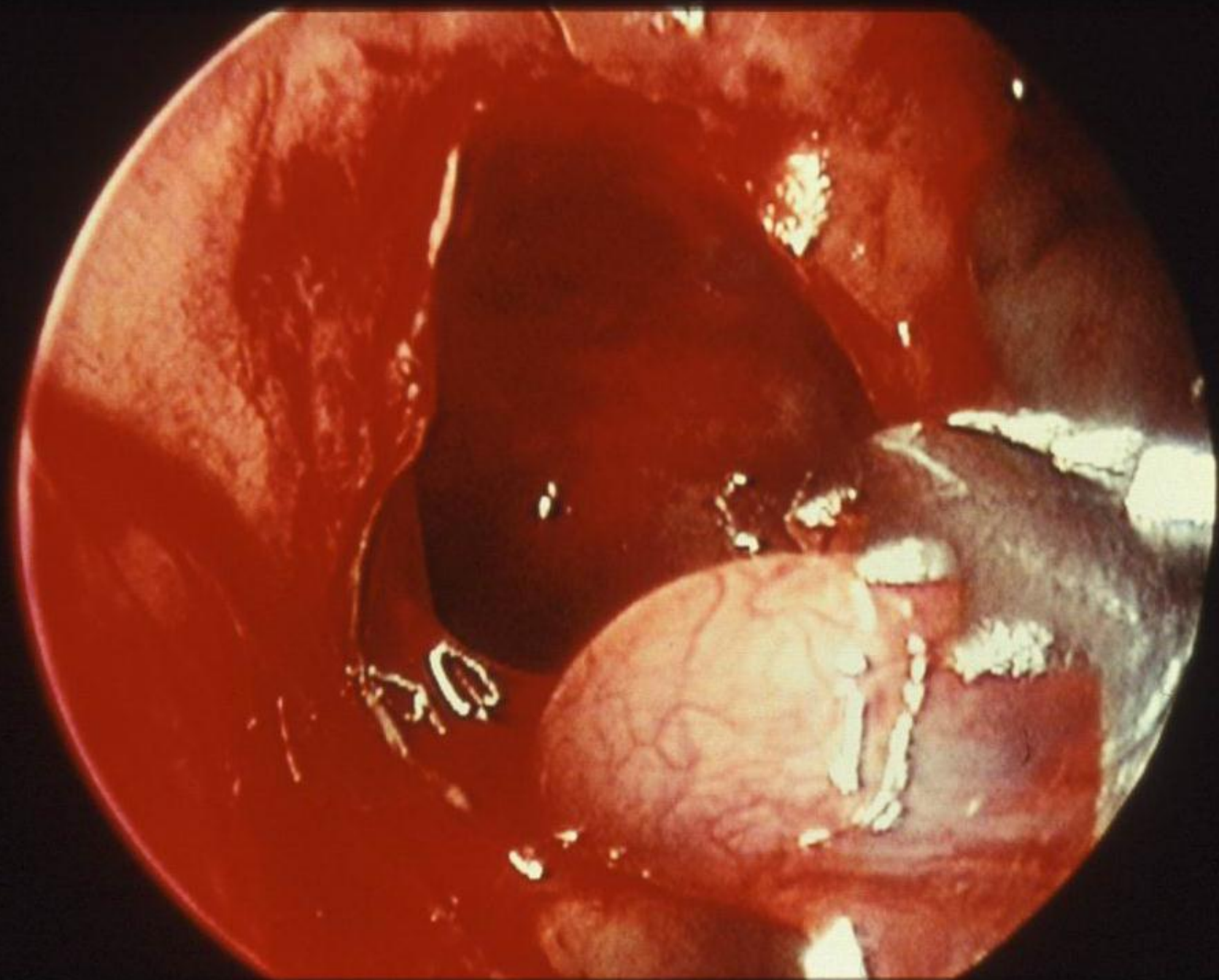


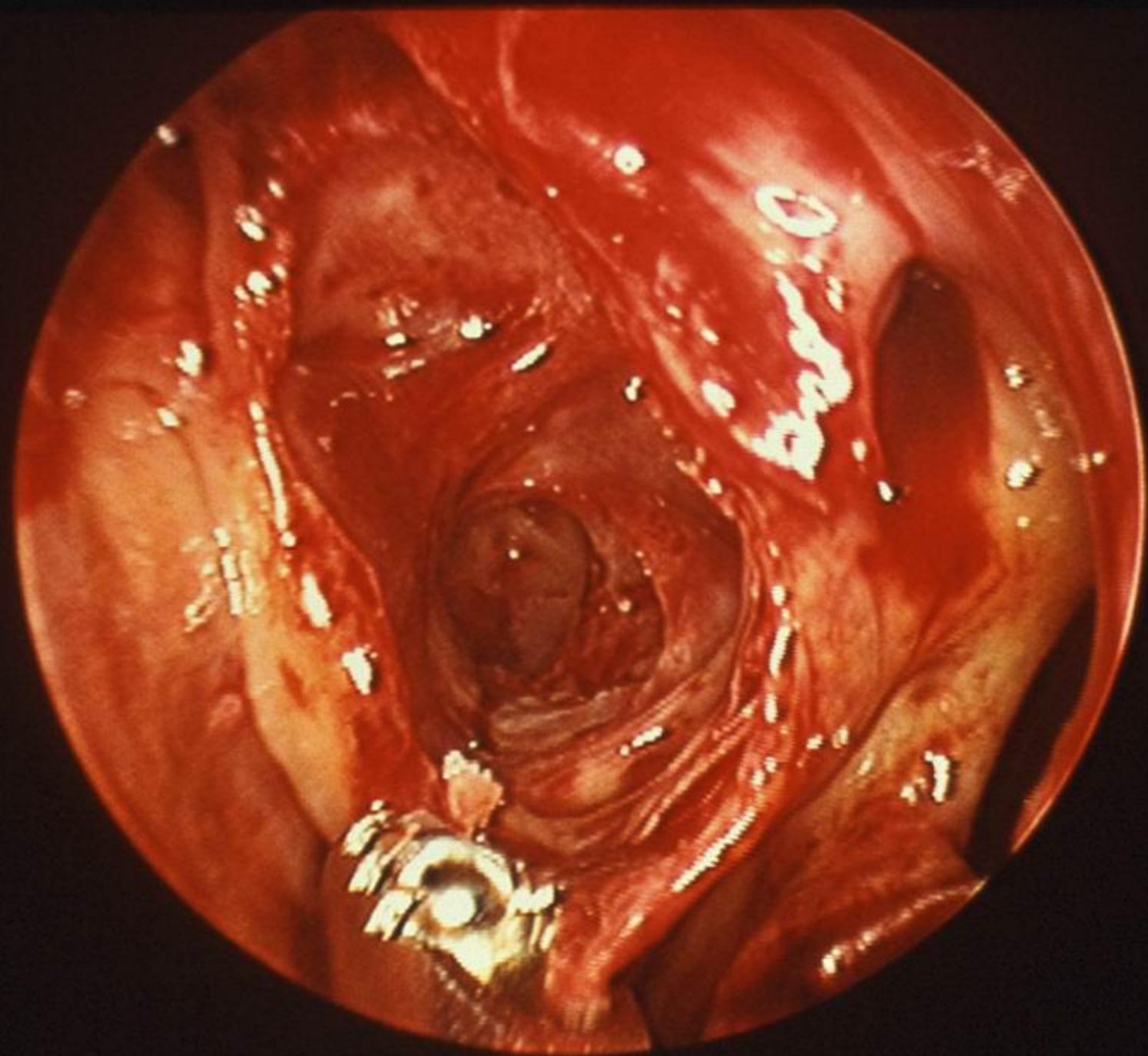
OPTIC NERVE

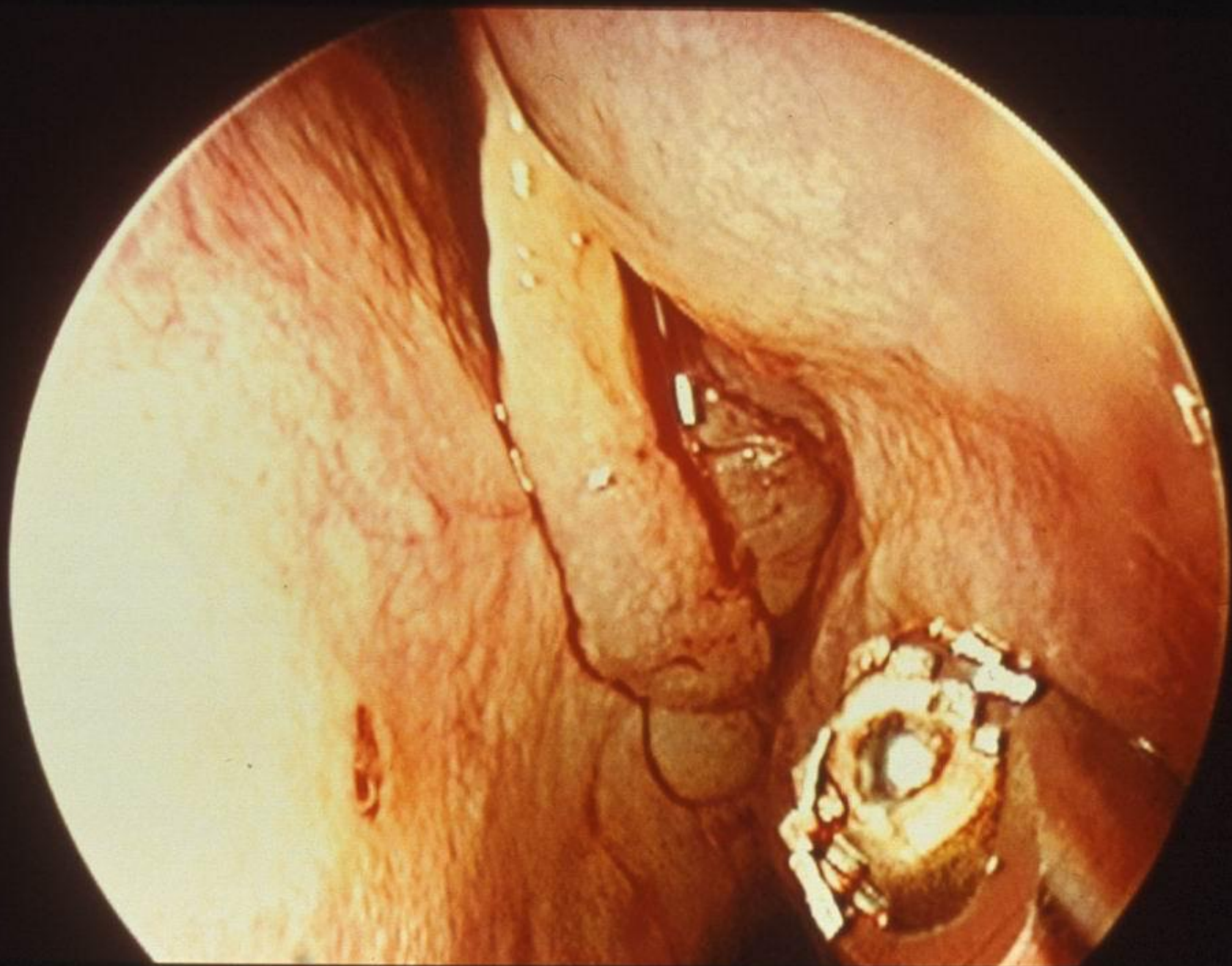


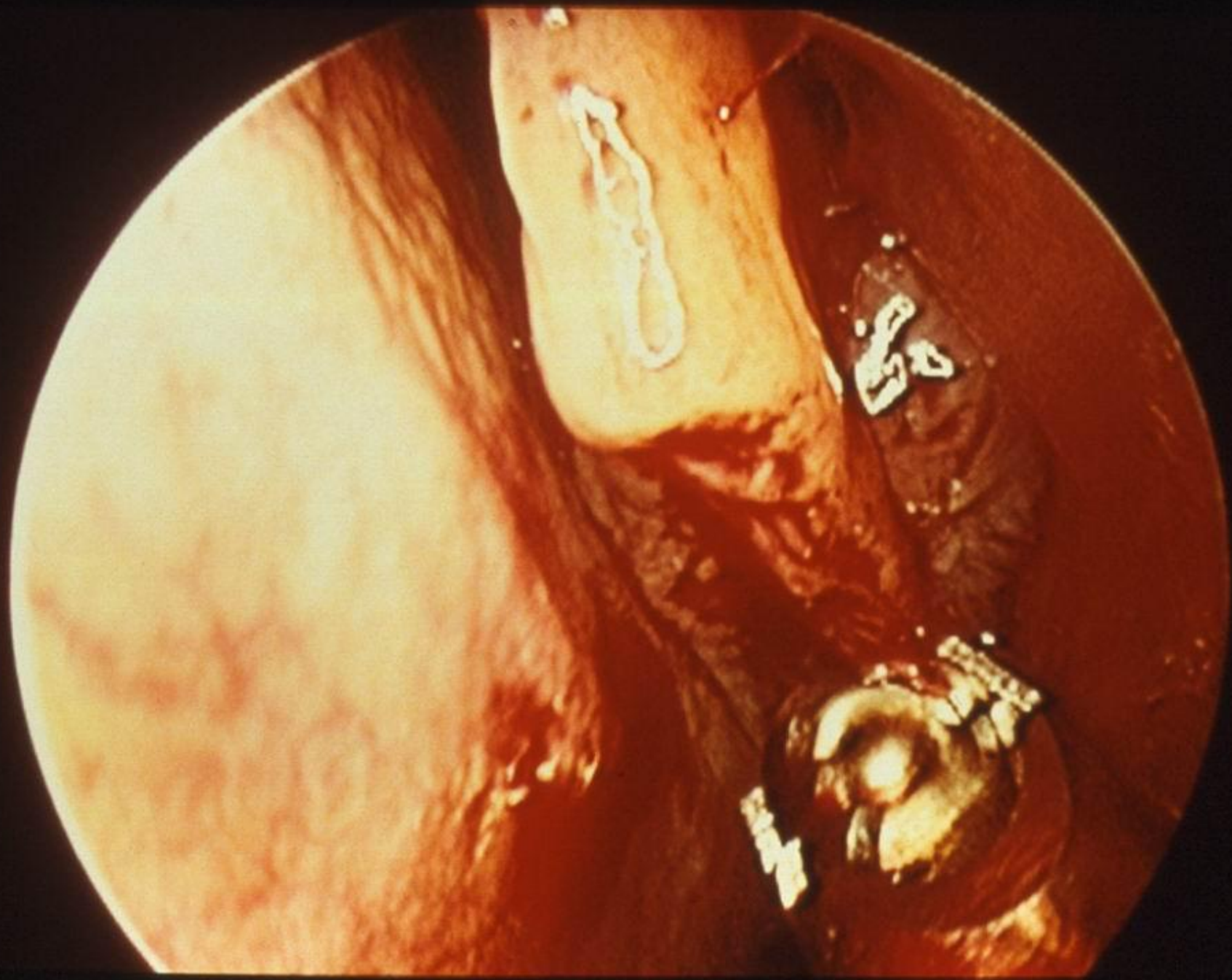
**INTERNAL
CAROTID ARTERY**

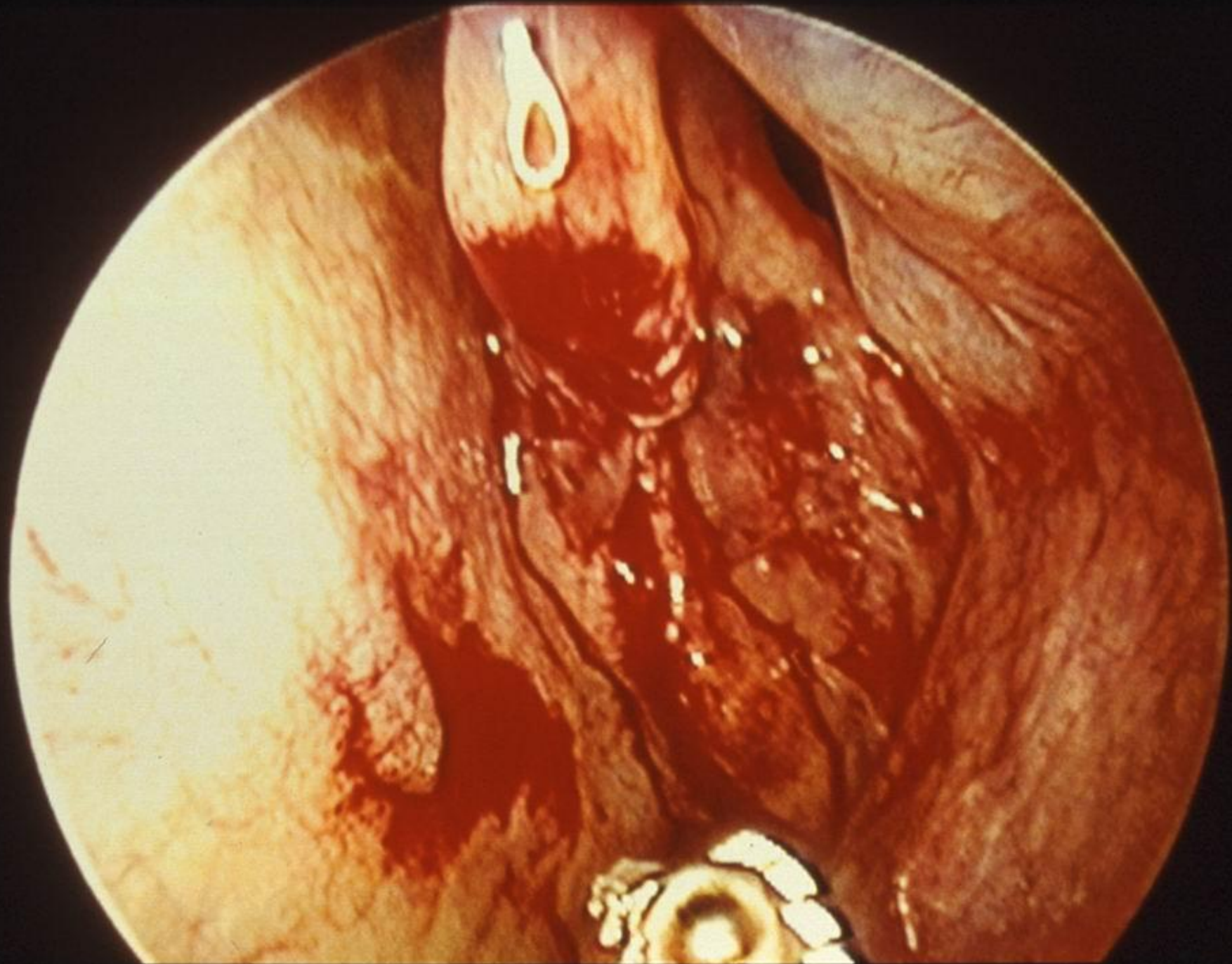




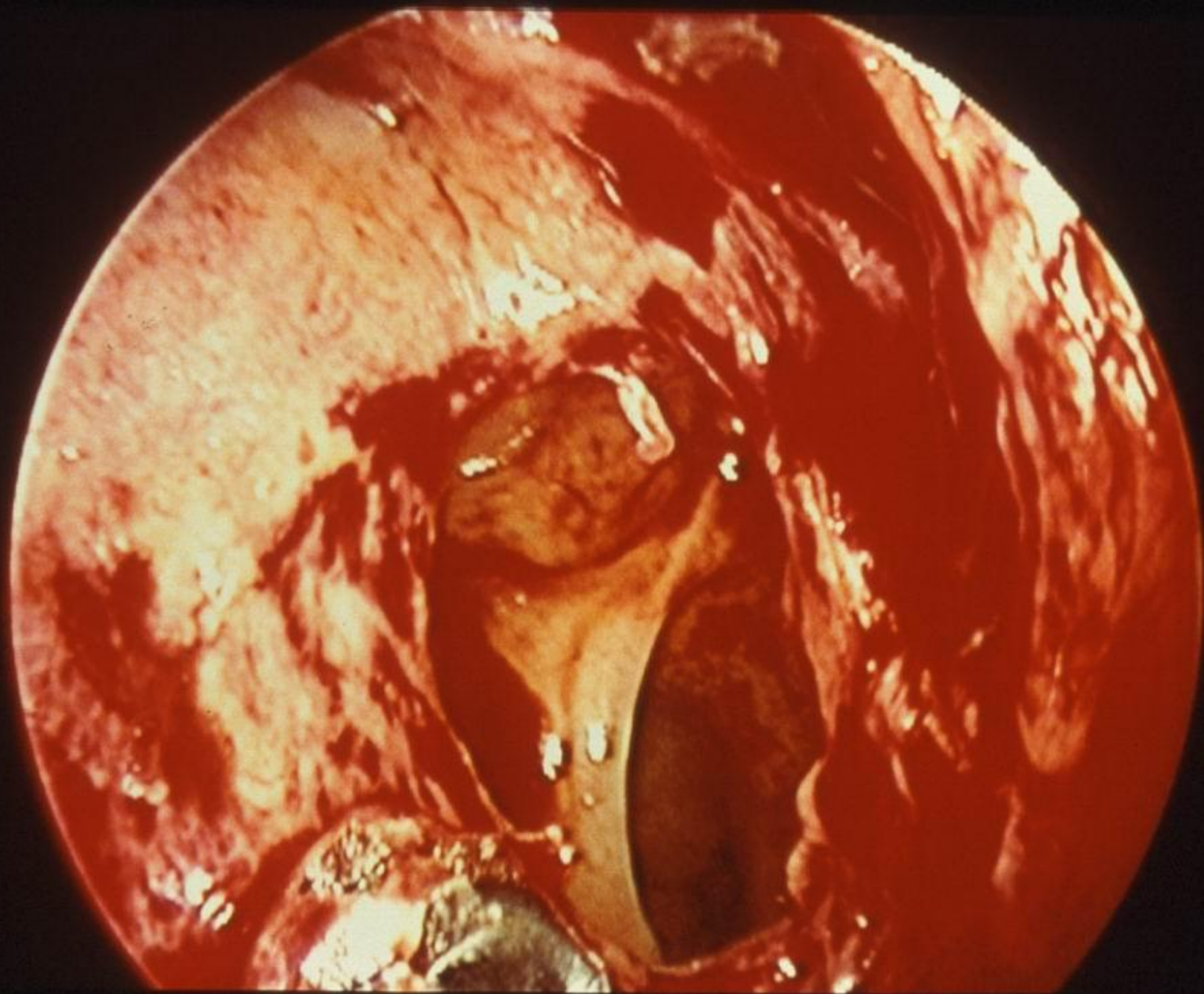


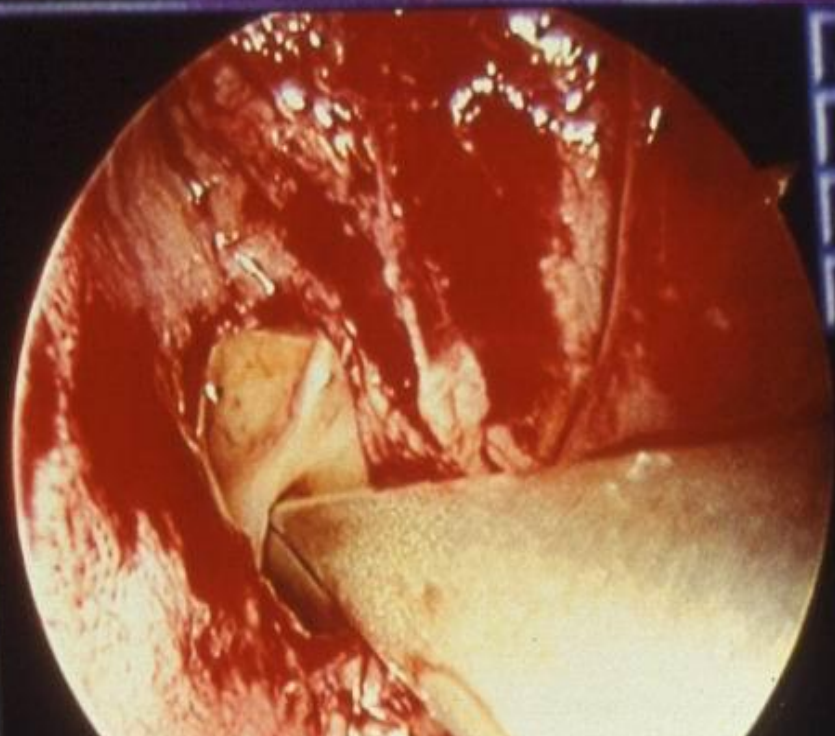
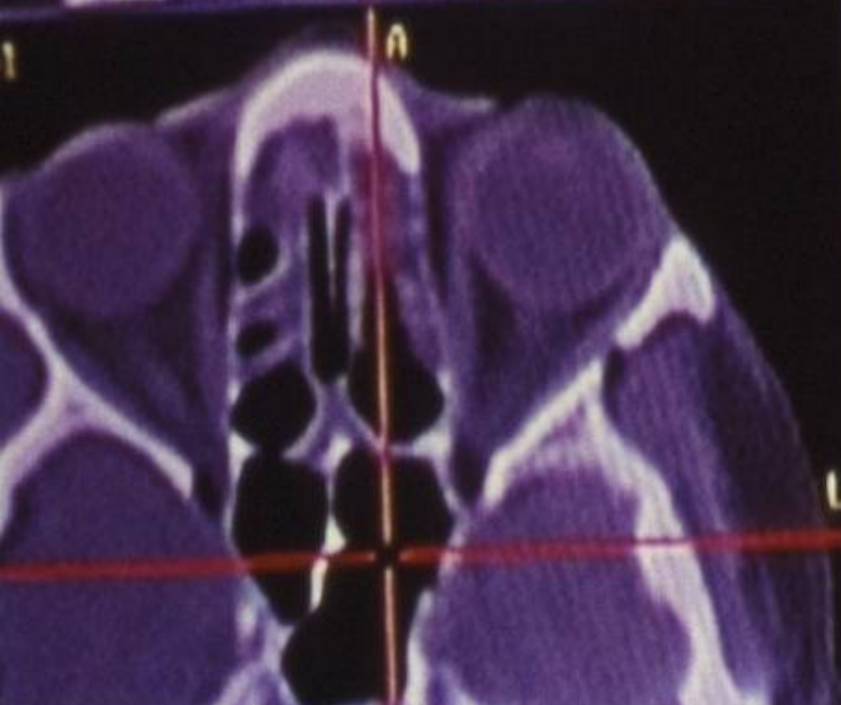
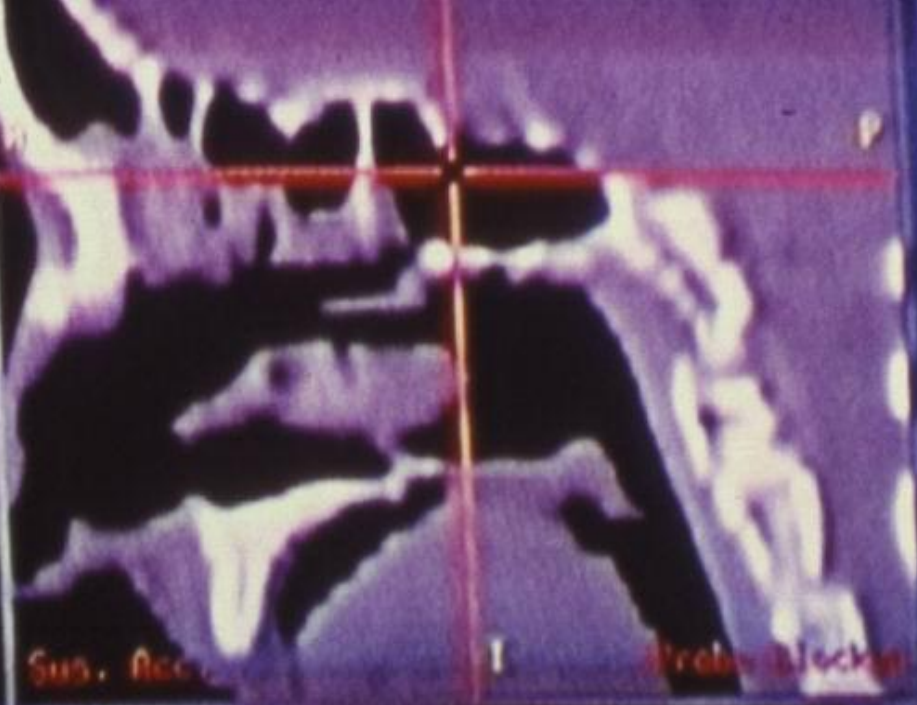
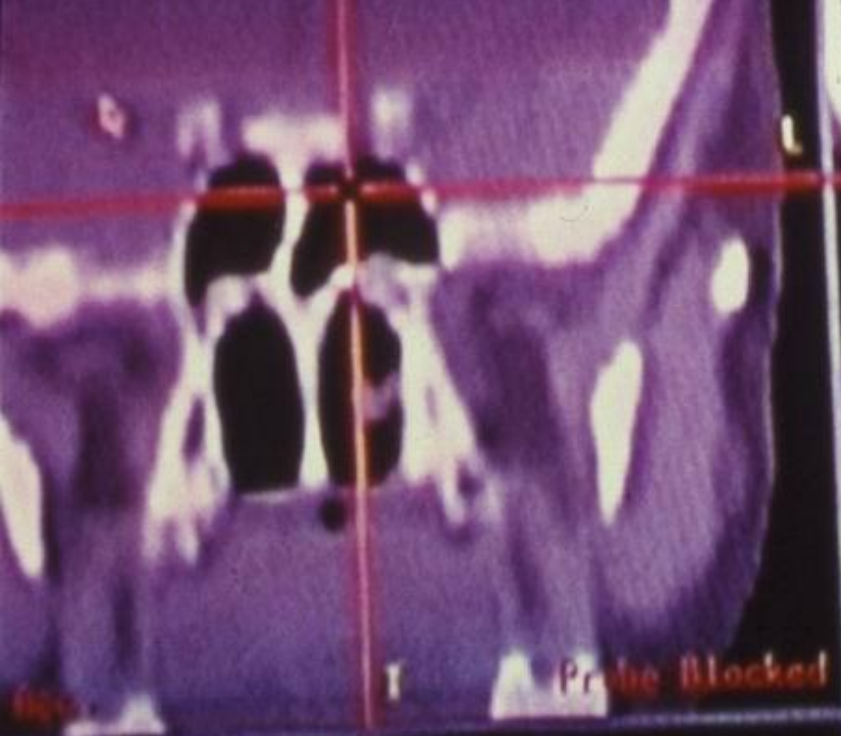












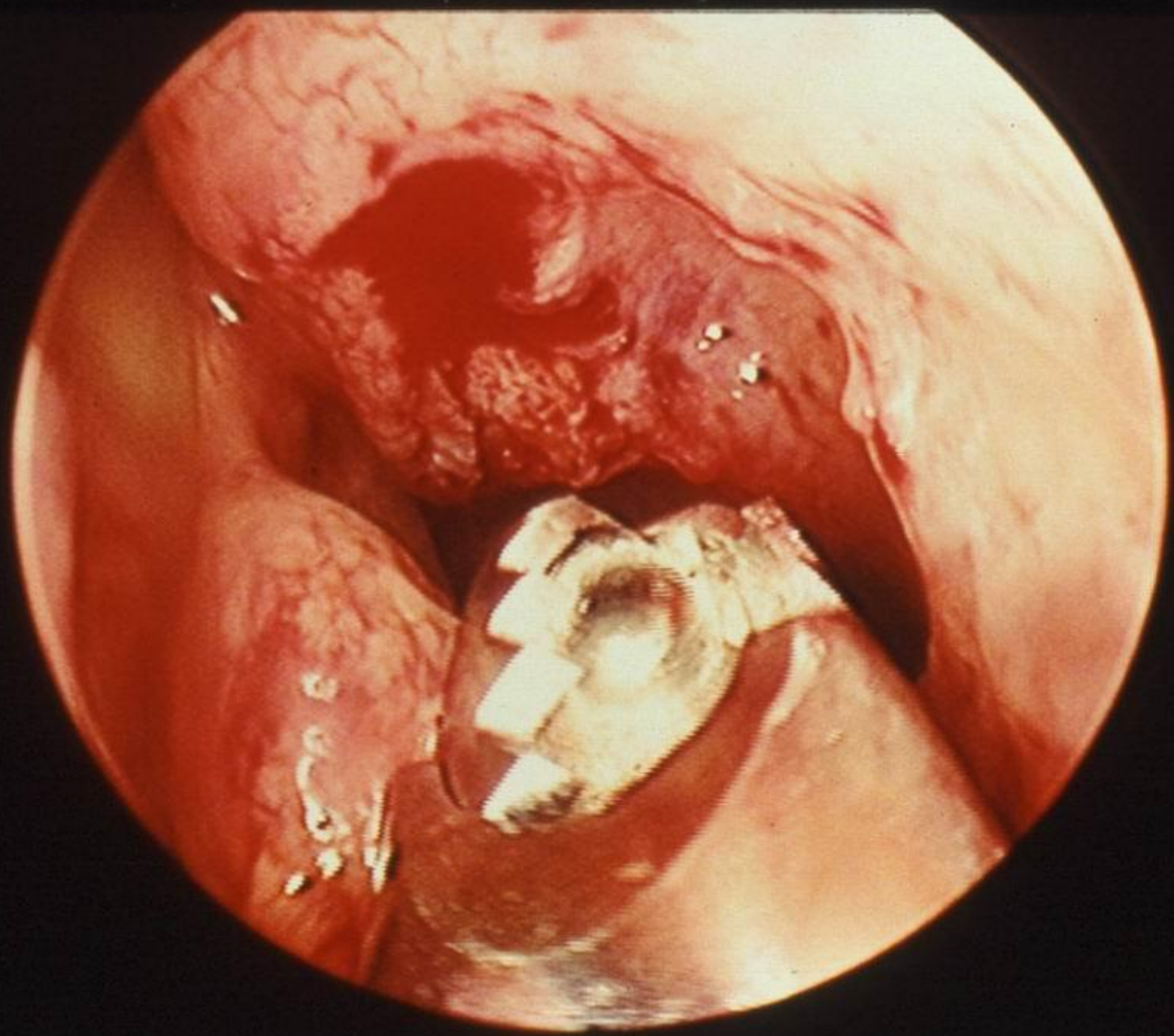
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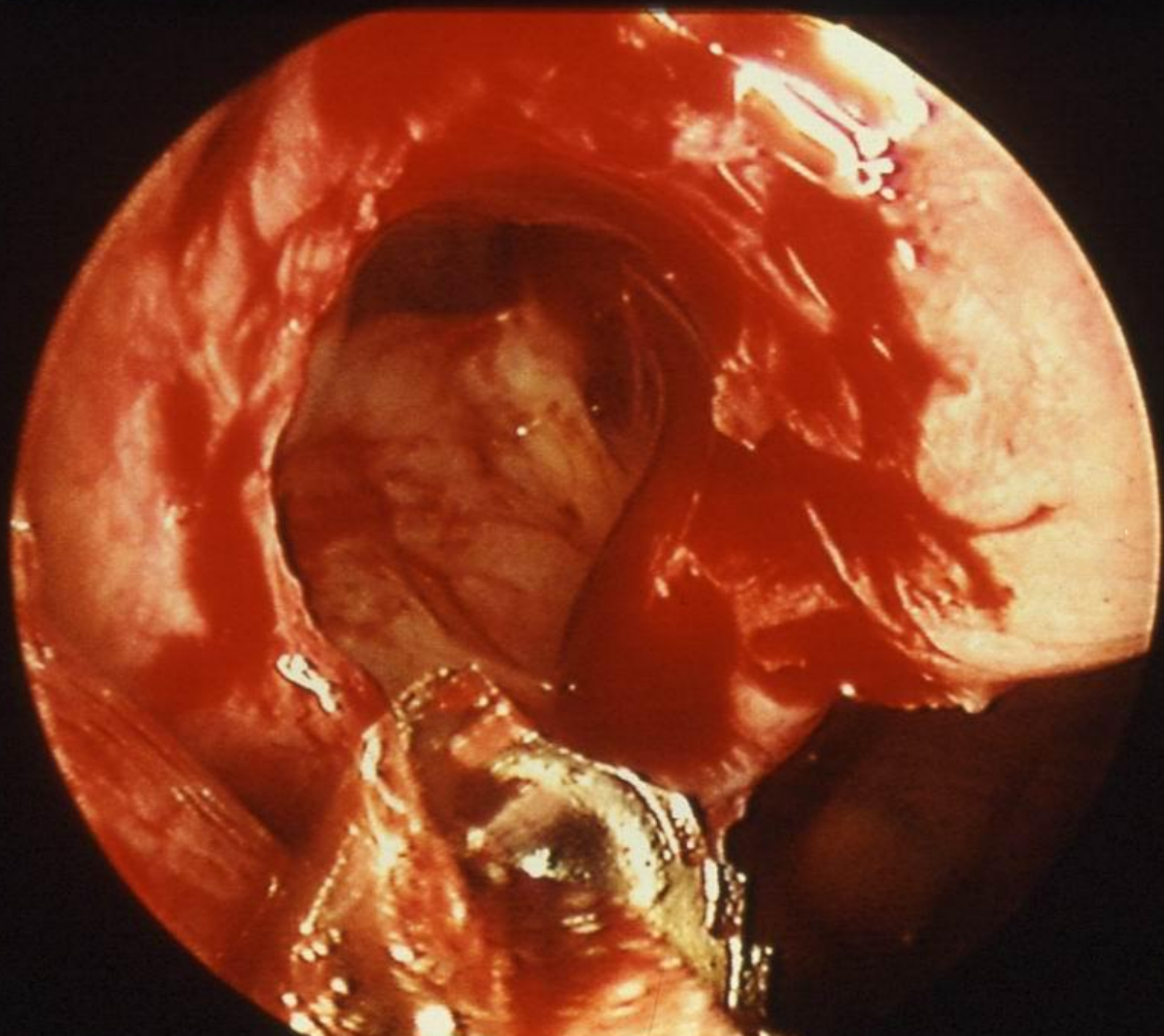
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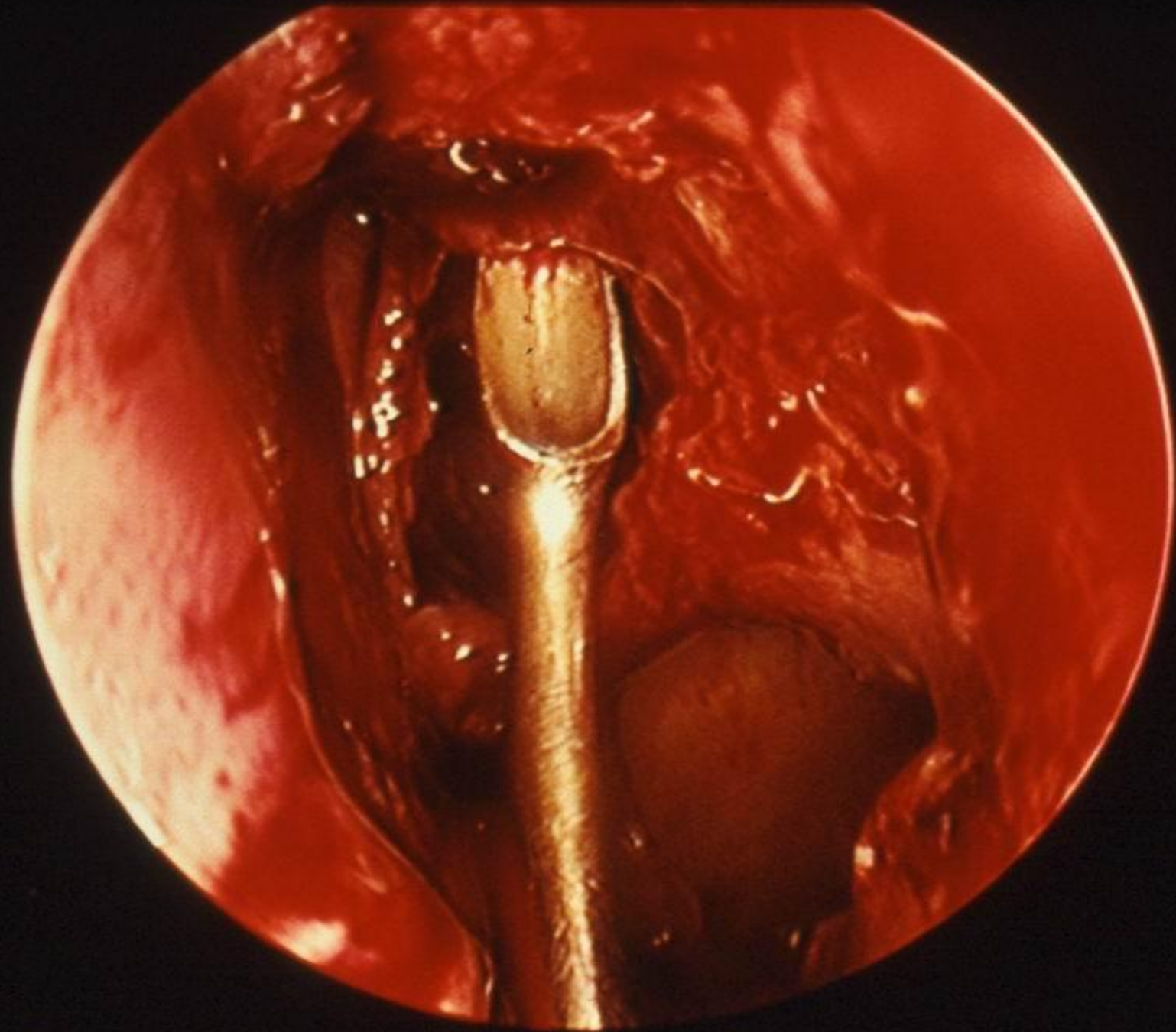
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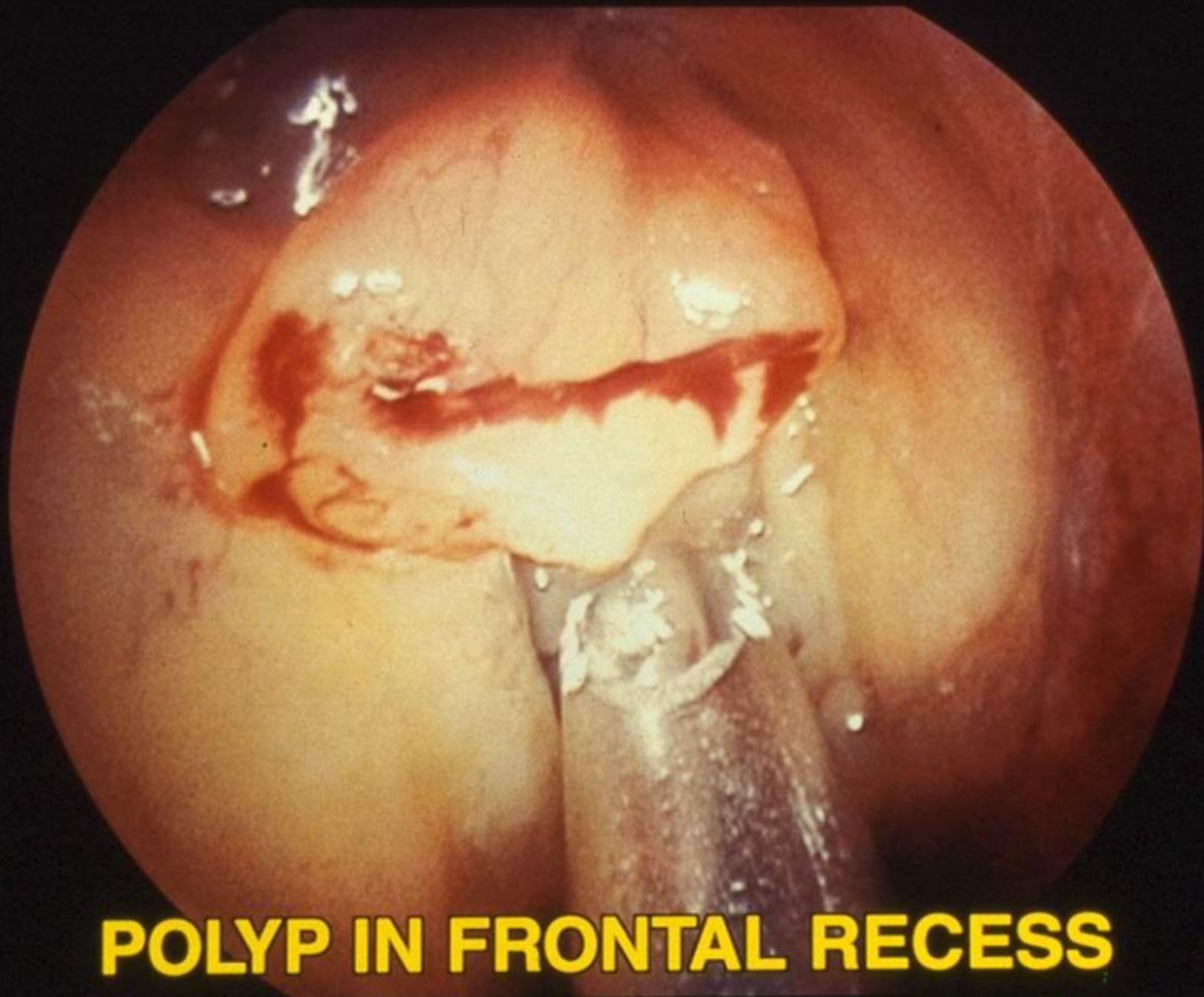
Su

■ R

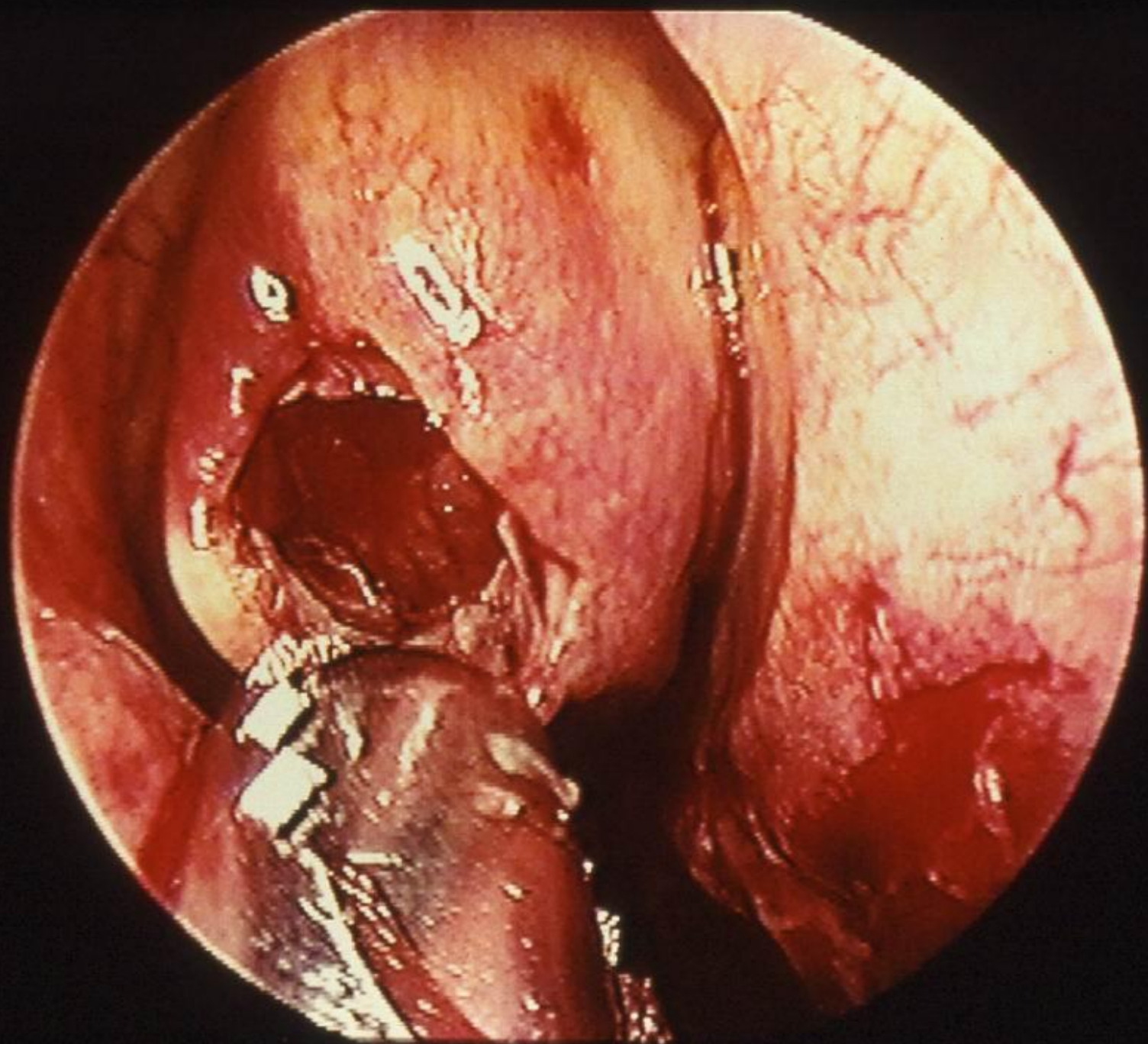


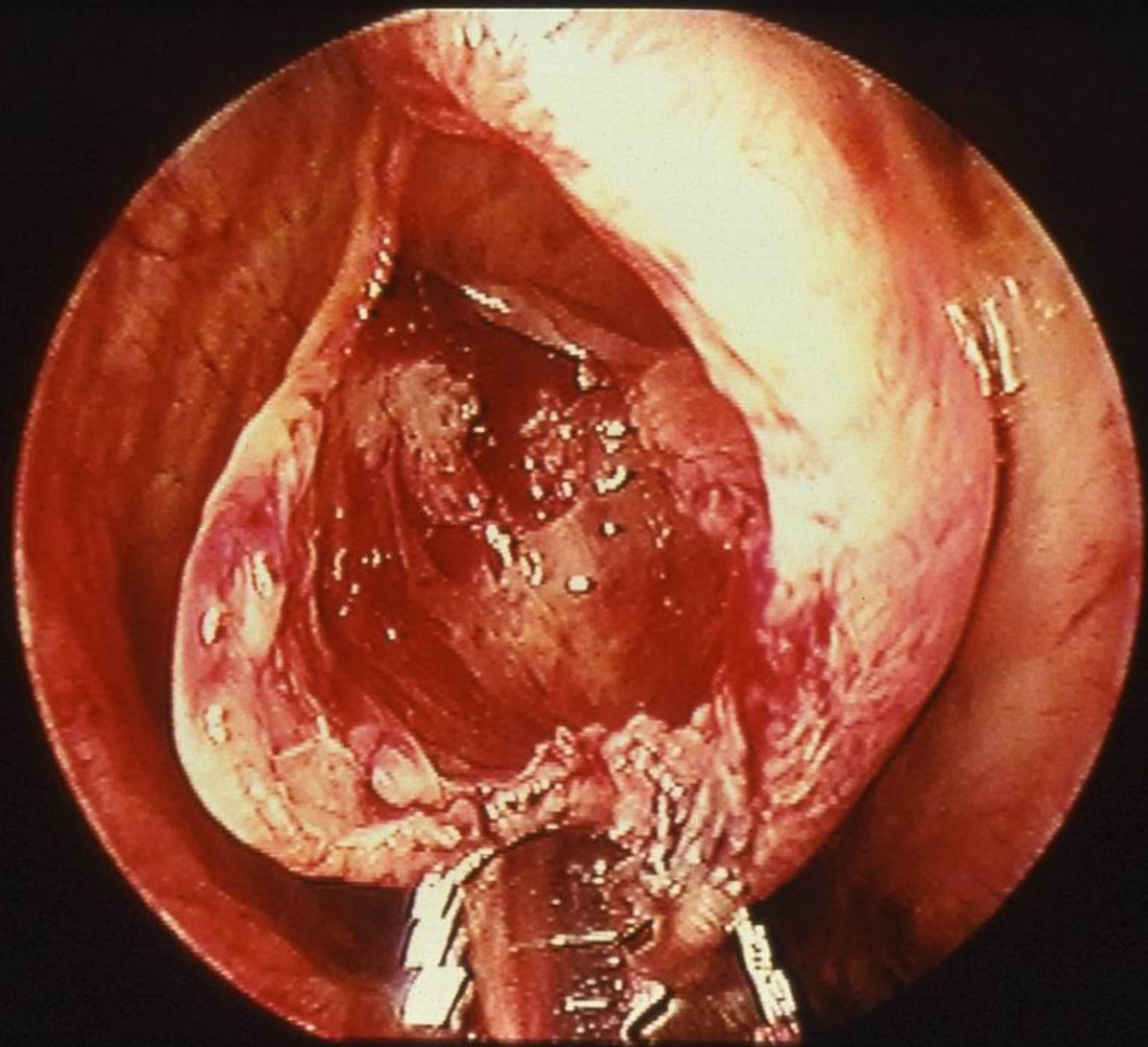


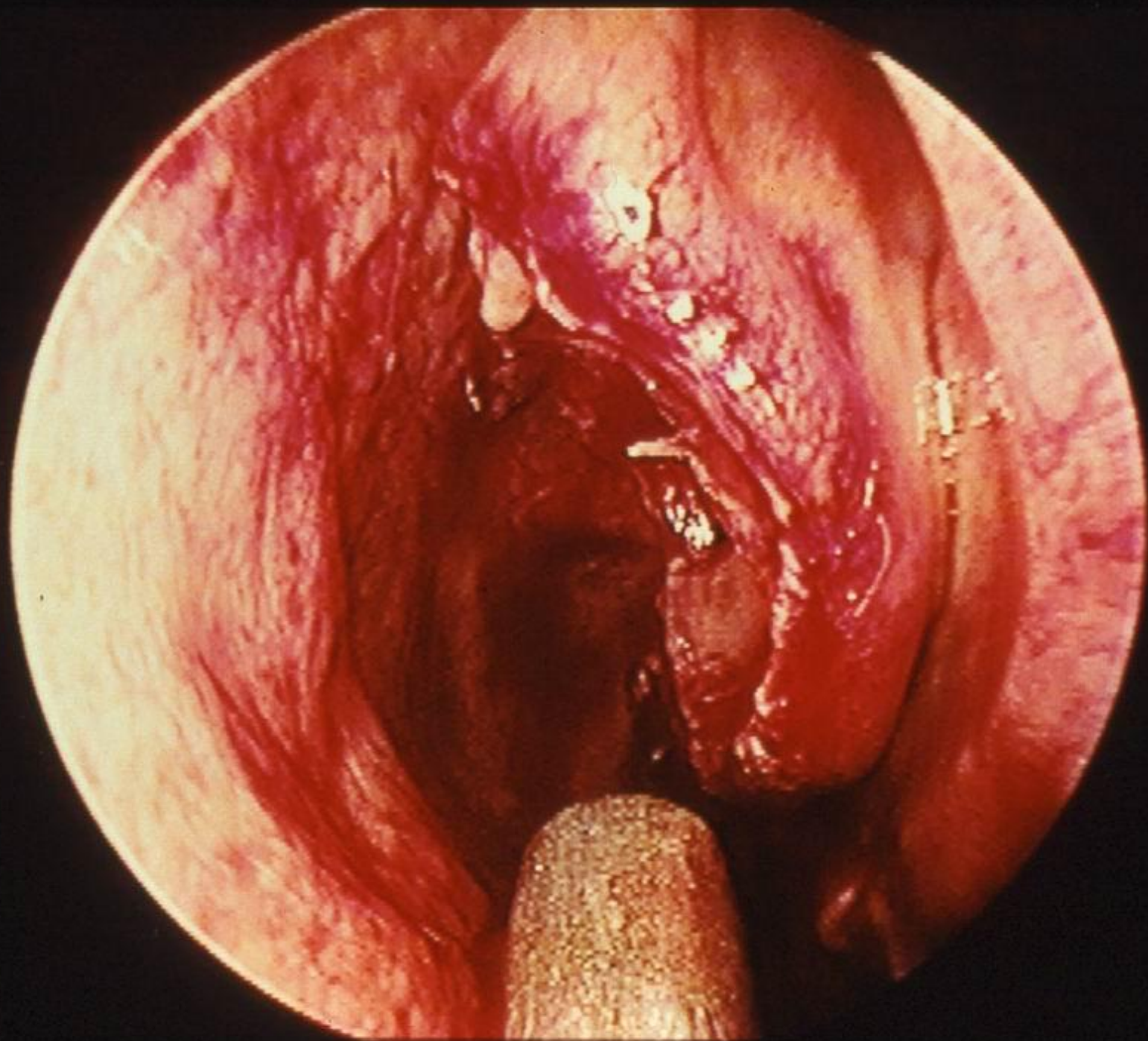


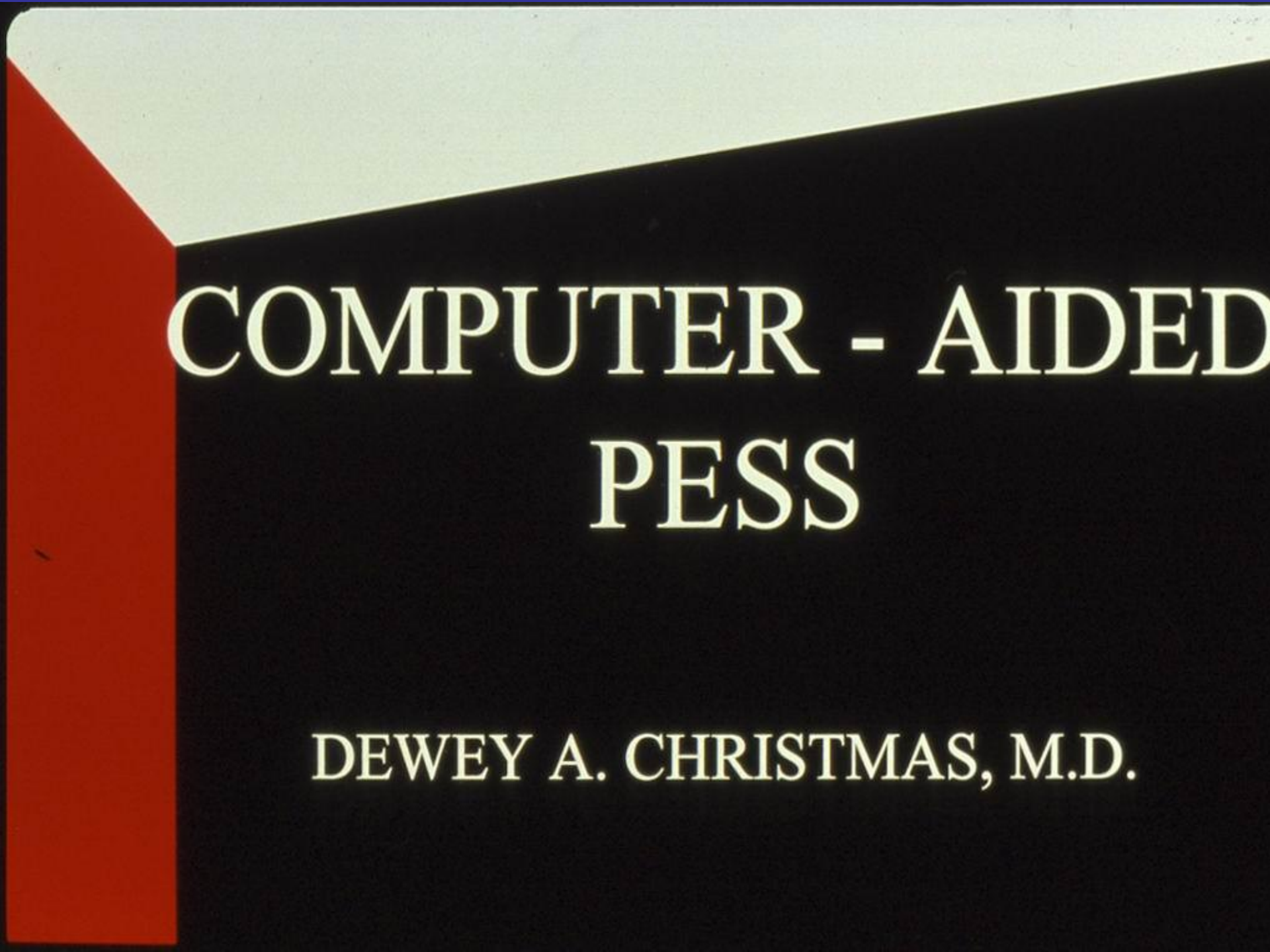


POLYP IN FRONTAL RECESS



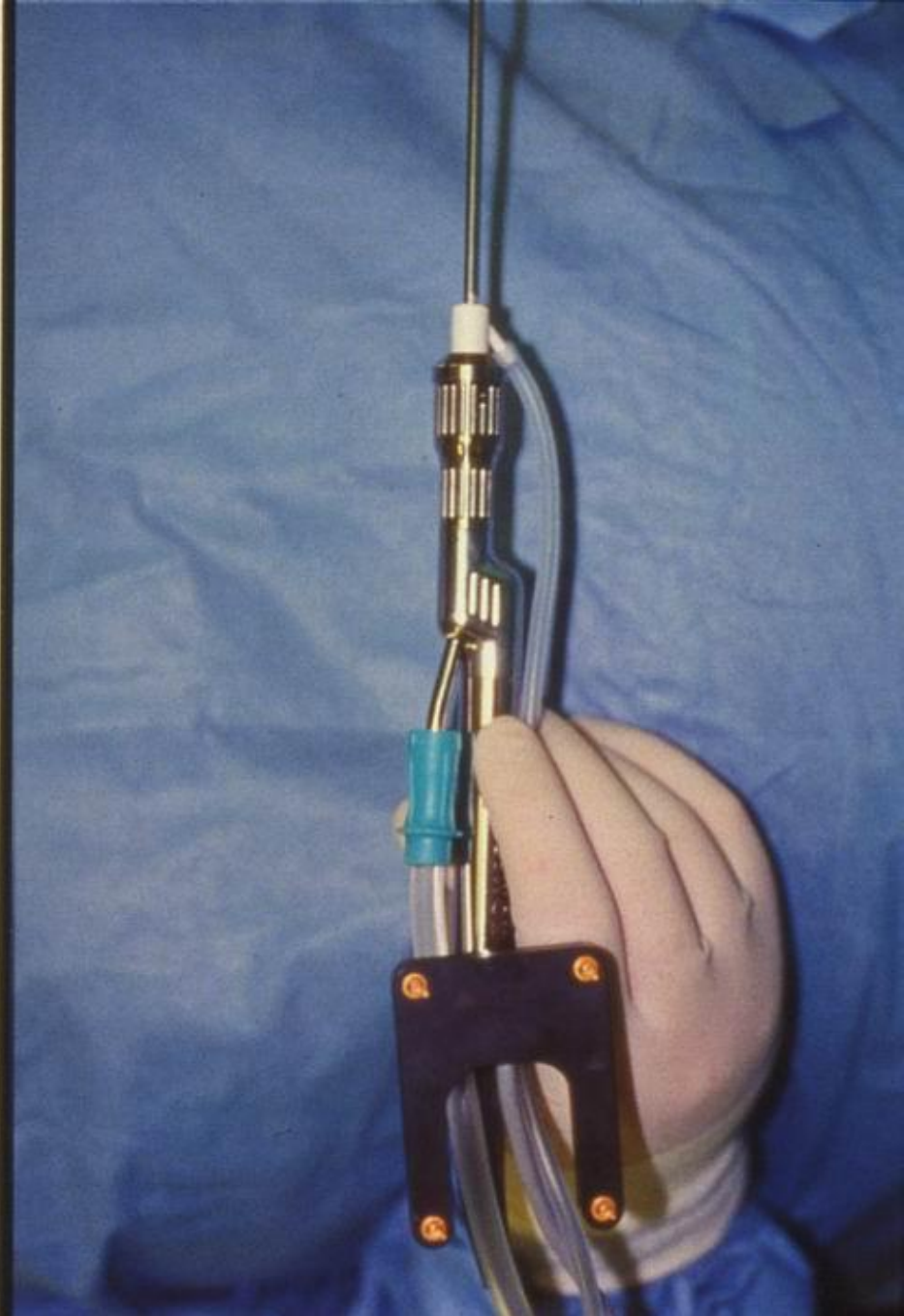




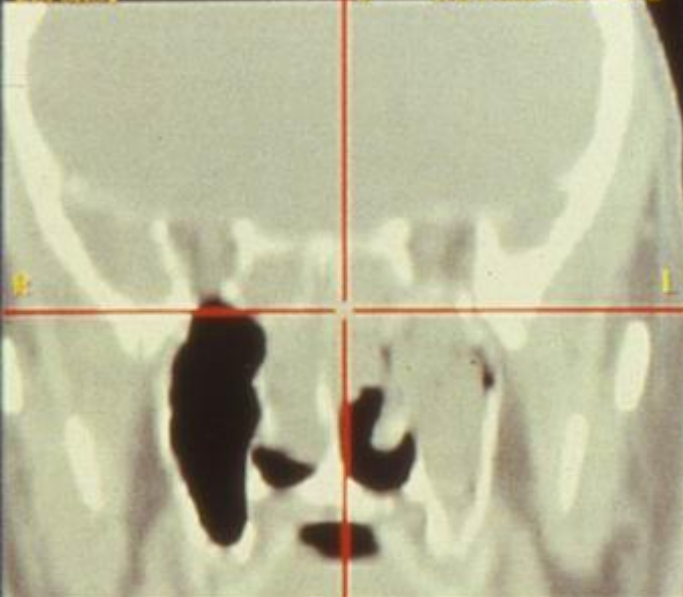


COMPUTER - AIDED PESS

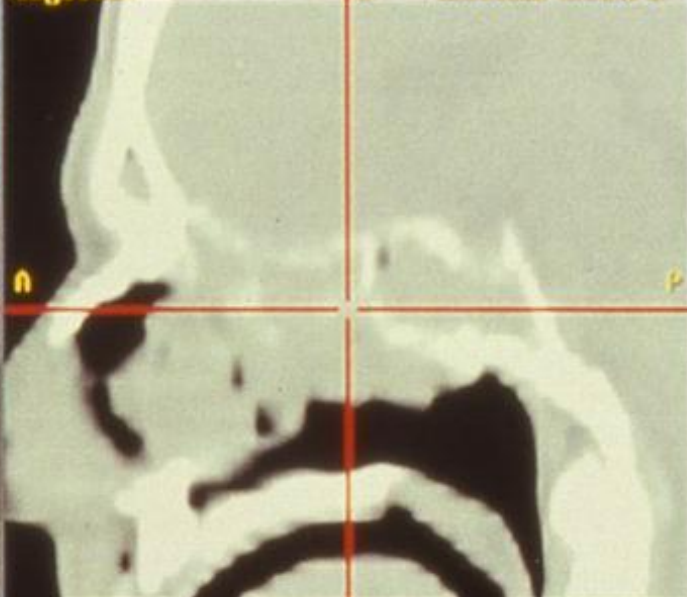
DEWEY A. CHRISTMAS, M.D.



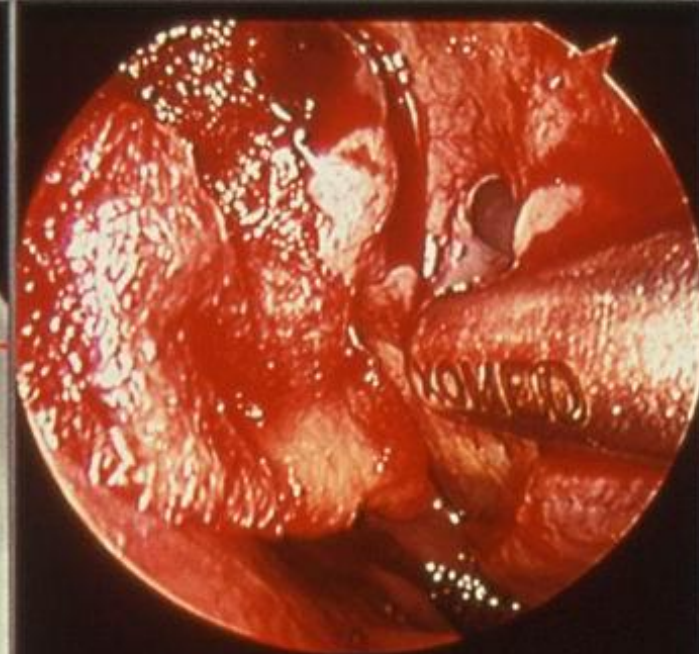
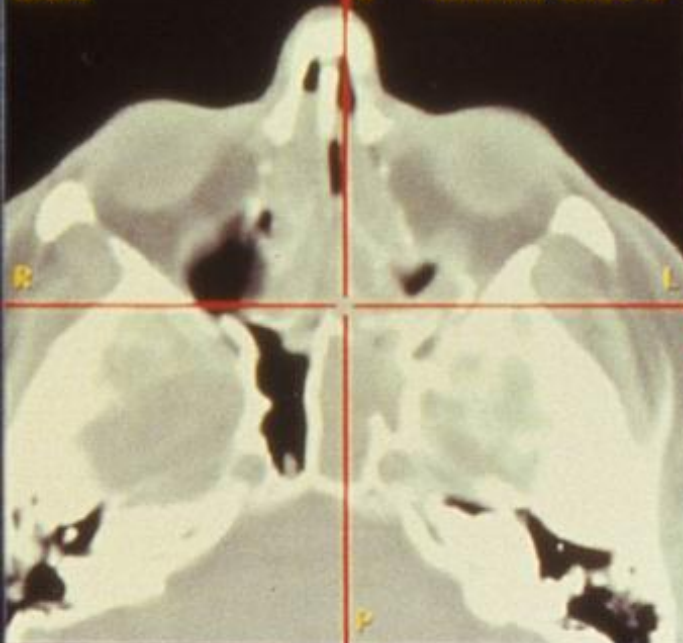
Coronal S HOLLMAN JAMES L



Sagittal S HOLLMAN JAMES L



Axial A HOLLMAN JAMES L



Tools

- Level/Width
- Translate
- Surgical Plan
- Probe Calibration
- Registration
- Sustained Accuracy

File Edit

100.0%

40

Number of Points:

100.0%

0.261

Geom. Constraint:

Surf.Merge PointMerge

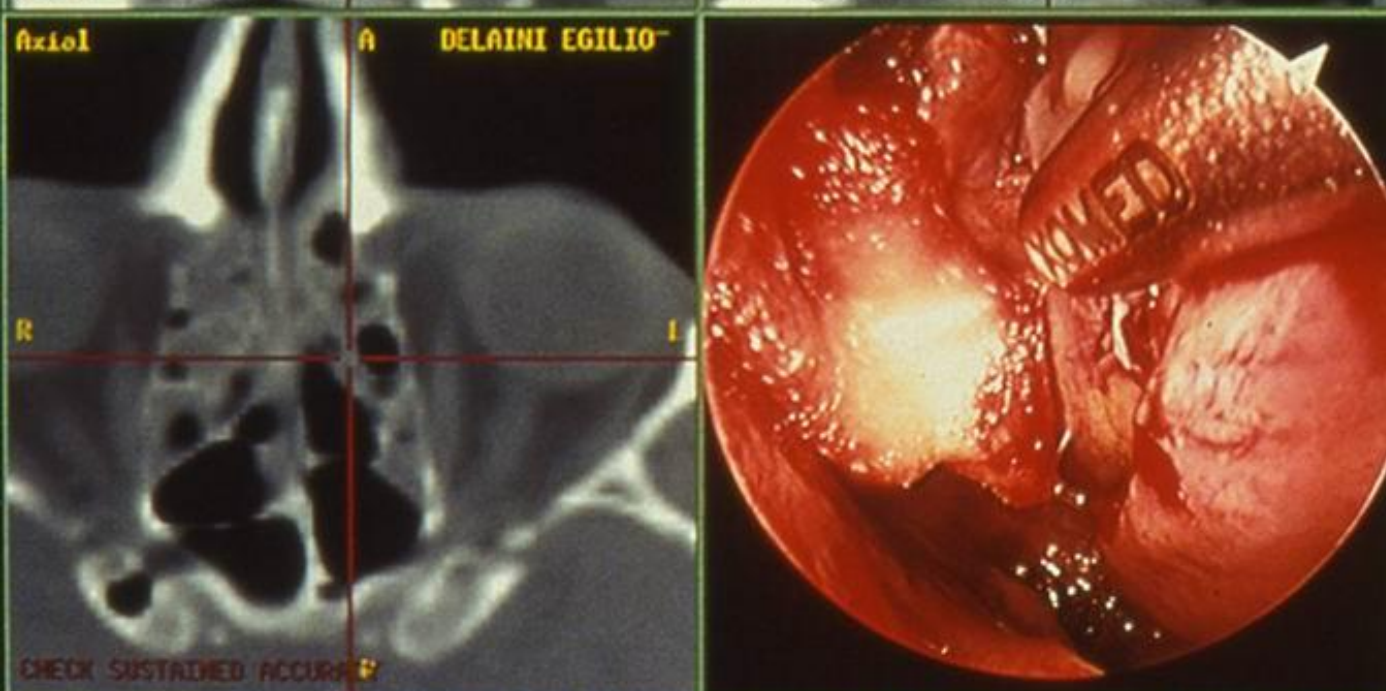
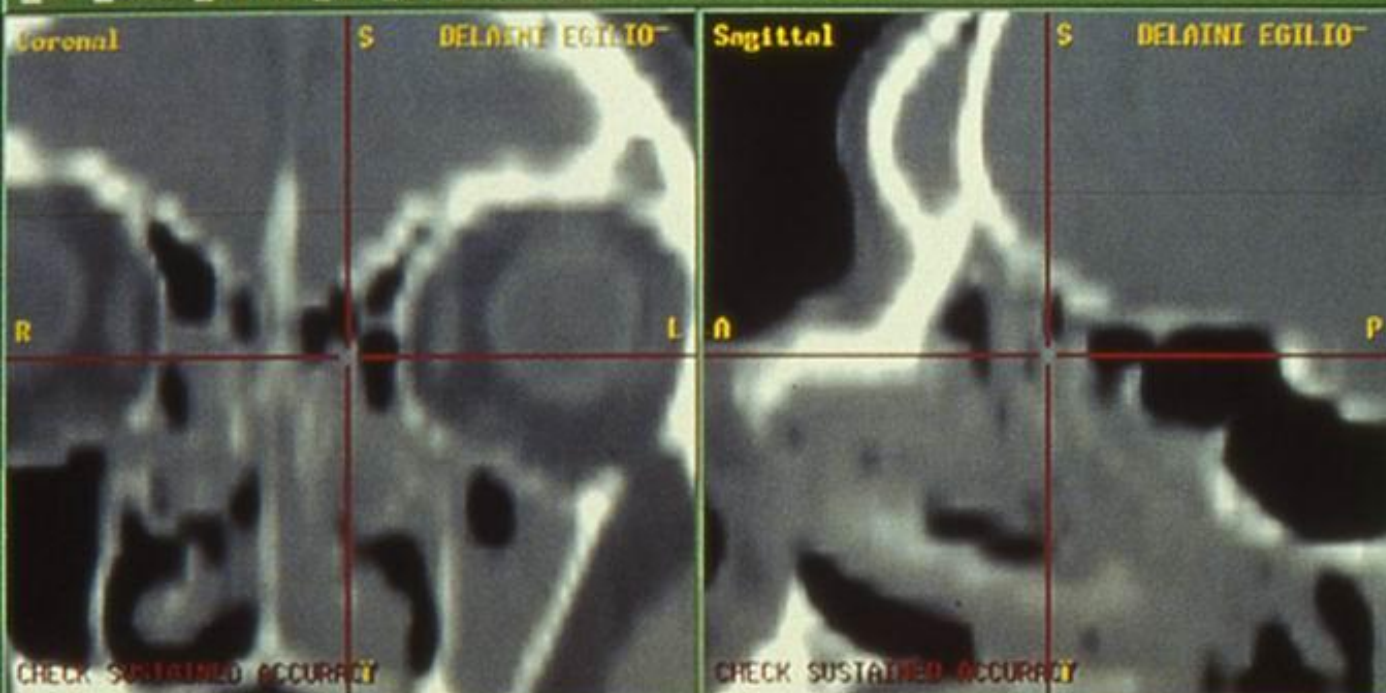
Registration Locked

Register

Probe: Blunt Tip Reg. Probe

Probe Status

Frame Status



Tools

- Level/Width
- Translate
- Surgical Plan
- Probe Calibration
- Registration
- Sustained Accuracy

Ref. 1: Store Goto

Ref. 2: Store Goto

Ref. 3: Store Goto

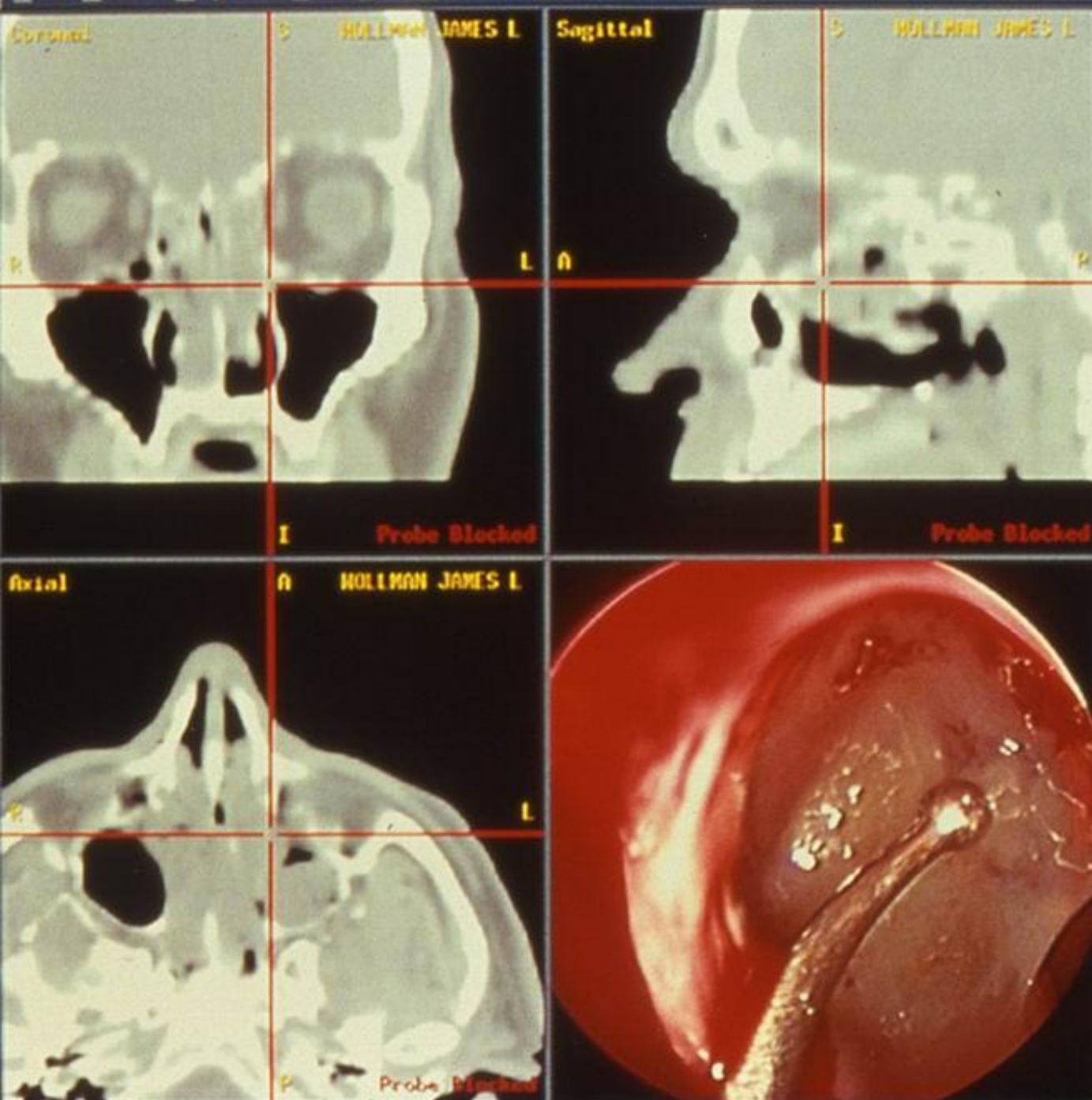
Ref. 4: Store Goto

64.3 mm from Ref. 1

Sus. Acc. Verified

Magnum w/Tricut Blade (R)

ENT Frame



Tools

- ^ Level/Width
- ^ Translate
- ^ Surgical Plan
- ^ Probe Calibration
- ◆ Registration
- ^ Sustained Accuracy

File Edit

100.0%

40

Number of Points:

100.0%

0.261

Geom. Constraint:

Surf.Merge PointMerge

■ Registration Locked

Register

Probe: Blunt Tip Reg. Probe

Probe Status

Frame Status

ADVANTAGES OF POWERED ENDOSCOPIC SINUS SURGERY

- * Mucosal Preservation Resulting In:
 - More Rapid Healing Post-operatively
 - Less Need For Aggressive Post-operative Debridement

ƯU ĐIỂM CỦA PESS

- BẢO TỒN NIÊM MẠC
- NIÊM MẠC XOANG MAU HỒI PHỤC
- SẴN SÓC SAU MỔ NHẸ NHÀNG HƠN

CẦN TRÁNH...!

