



# Dijagnoza gljivičnih infekcija-od uzorka do rezultata

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**"DIJAGNOZA GLJIVIČNIH INFEKCIJA – OD UZORKA DO REZULTATA"**

Edukacija za medicinske sestre i zdravstvene tehničare

Crowne Plaza BEOGRAD, 13.03.2015.

# Laboratorija za ispitivanje i lečenje bolesti pluća

- Spirometrija
- Impulsna oscilometrija
- Ergospirometrija
- Bronhoskopija



# Spirometrija

- Neinvazivna metoda
- Deca od 4-te godine
- Procena funkcije pluća



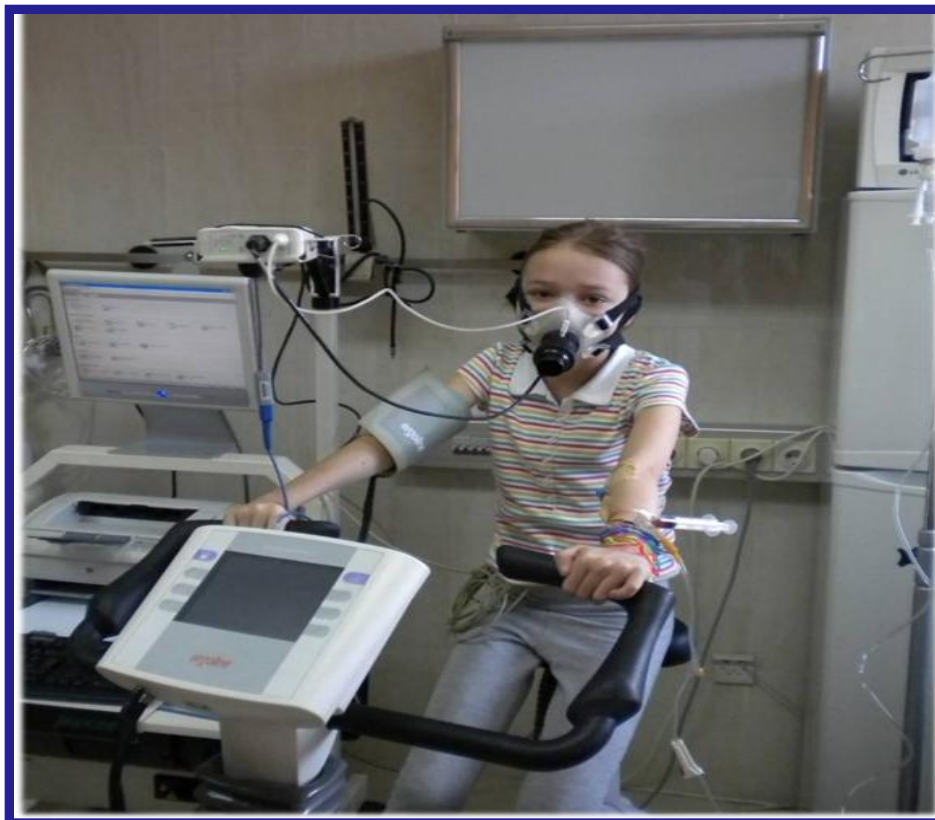
# Impulsna oscilometrija

- Brza, jednostavna metoda
- Mala deca



# Ergospirometrija

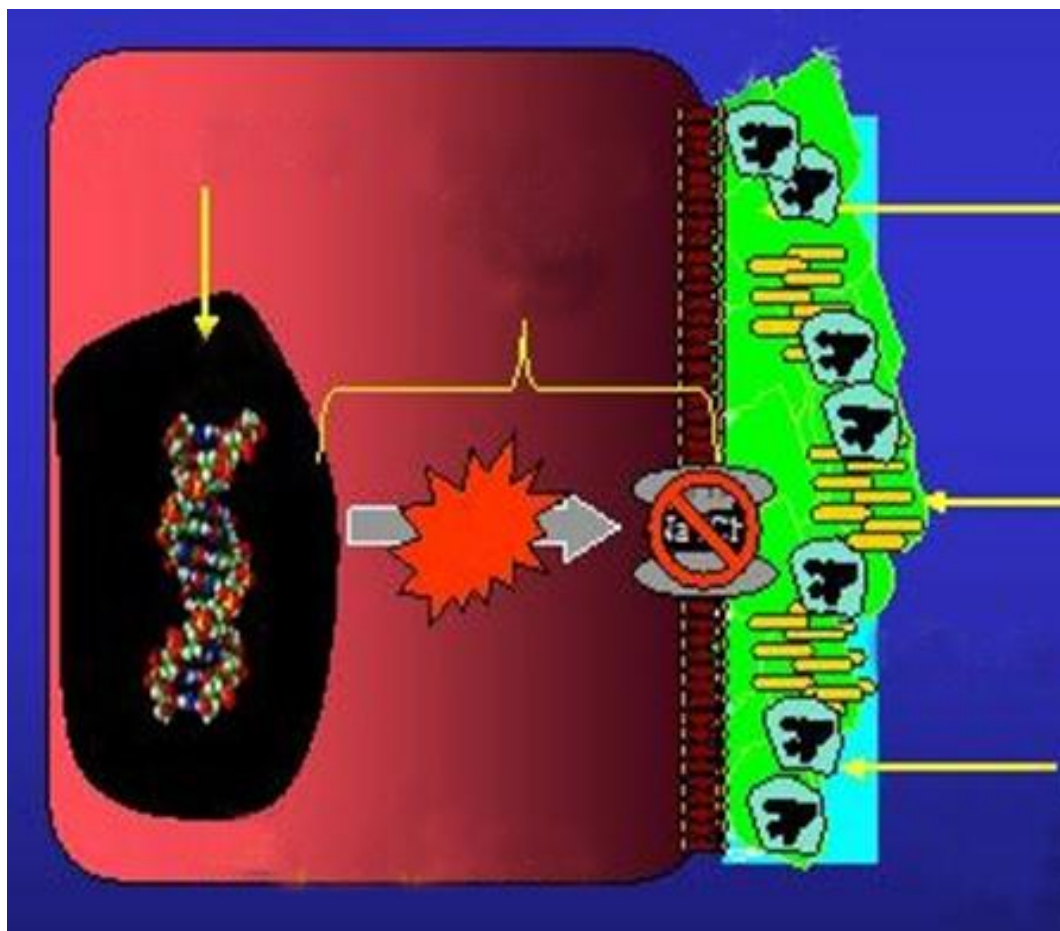
- Neinvazivna metoda
- Test opterećenja



# Patogeneza cistične fibroze



# Patogeneza cistične fibroze



Disajni putevi

Stvaranje gustog mukusa



Bakterijska infekcija



Hronična inflamacija



# Alergijska bronhopulmonalna aspergiloza

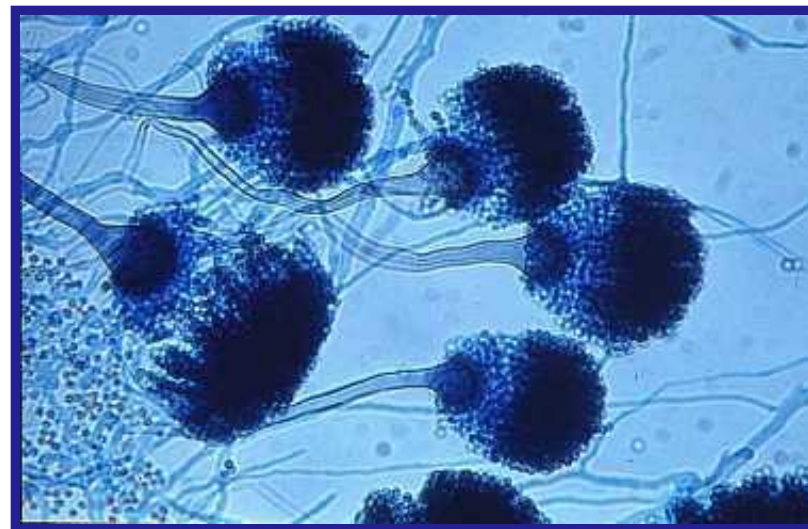
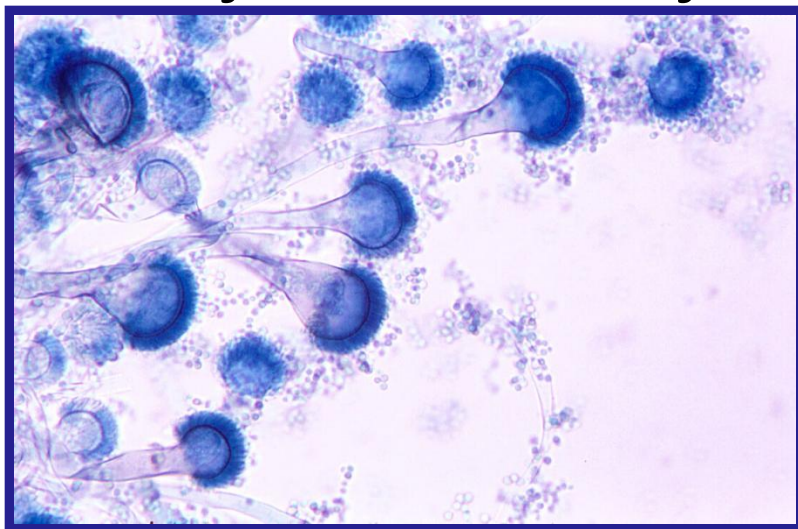
- Teška komplikacija astme i CF kod dece, adolescenata i odraslih
- Kolonizacija disajnih puteva
- Inflamacija, bronhoopstrukcija, bronhiektazije, fibroza
- Oštećenje funkcije pluća





# *Aspergillus fumigatus*

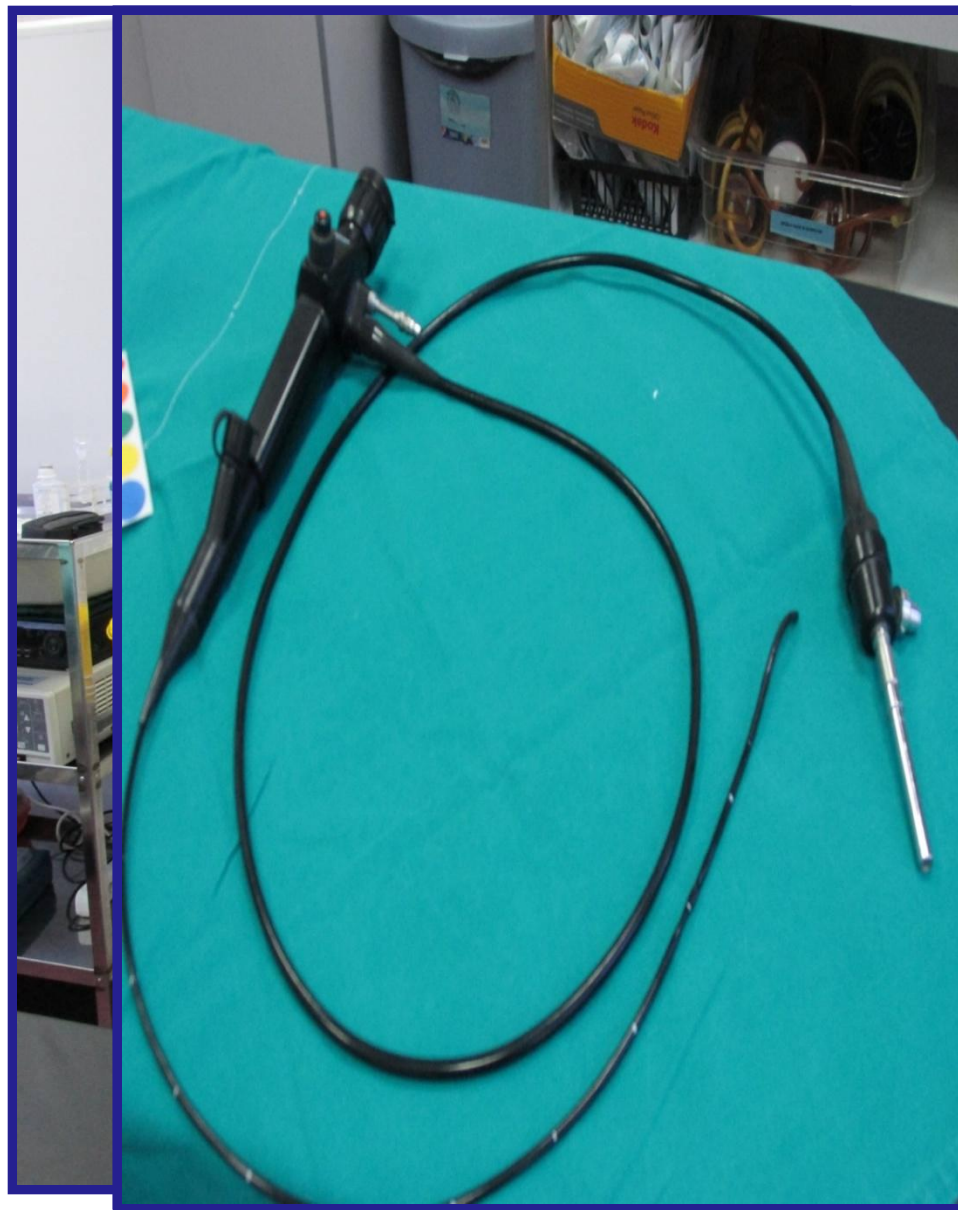
- Najčešće konidije gljiva patogene za čoveka
- Veličina konidije 1-3 $\mu$ m
- Normalno većina udahnutih konidija bude uklonjena mukocilijarnim klirensom



# Bronhoskopija

- Invazivna metoda
  - Terapijska
  - Dijagnostička
- Priprema pacijenta
- Priprema materijala
- Priprema osoblja





# BAL (bronhoalveolarni lavat)

- Nalepnice za obeležavanje uzoraka
- Prateća dokumentacija
- Sterilan rastvor NaCl 0,9% (0,5 ml po kg/tm)
- Sterilne epruvete
- Špricevi
- Igle



Maksimovic Marica  
4967  
1

Z 02/04/2014  
08:16:04



pulmo/14  
Facility

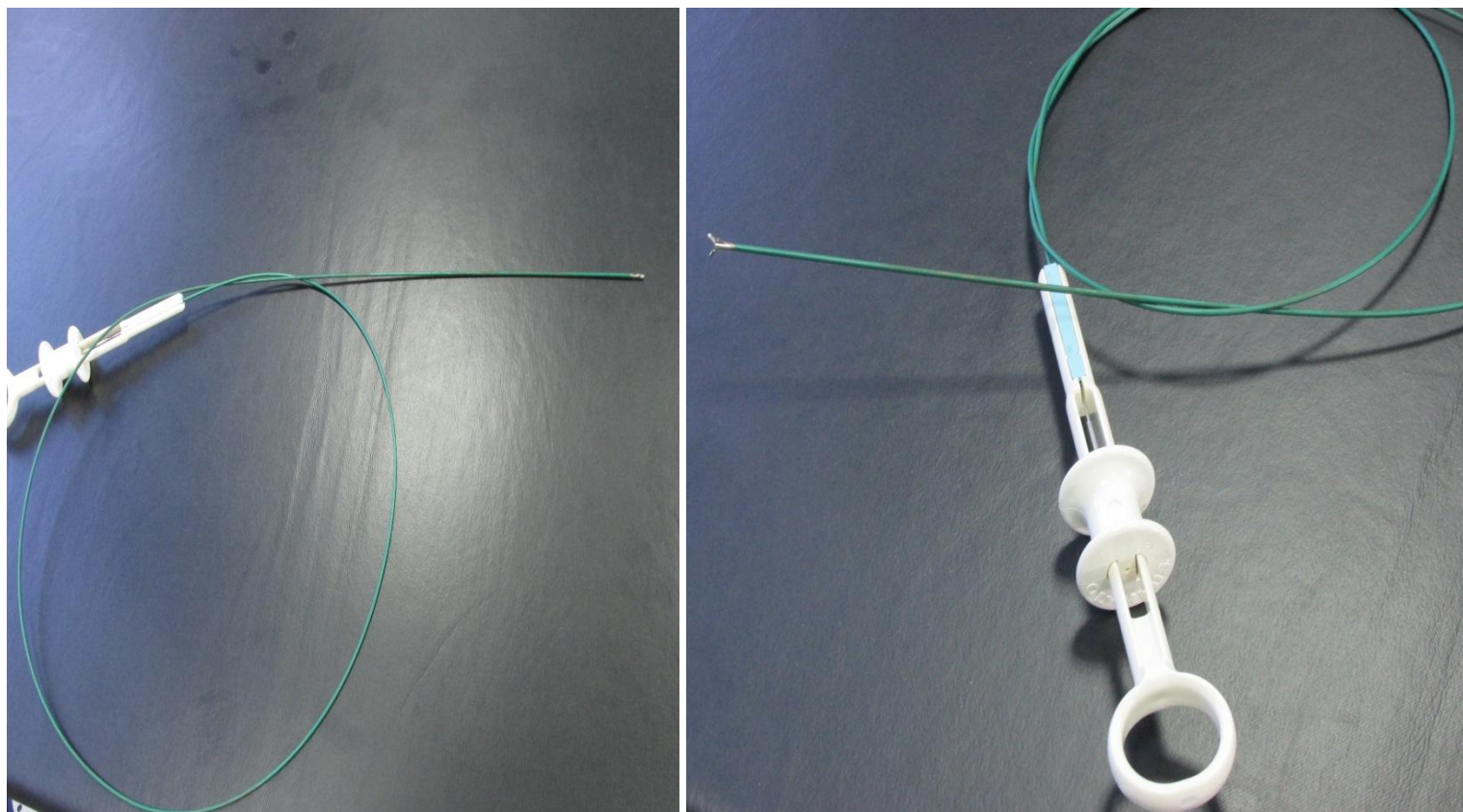
Dr.

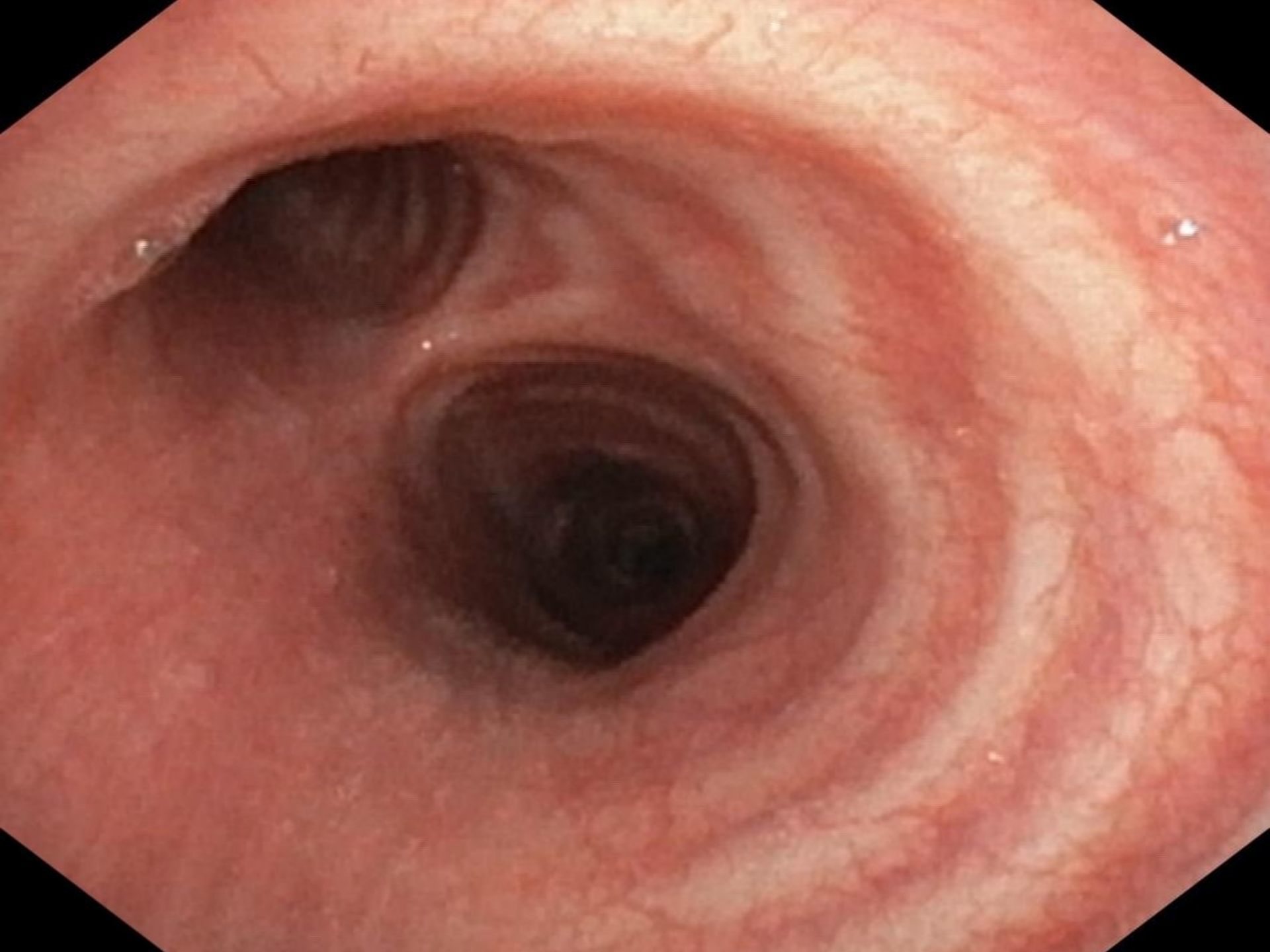
# Uzorak



# Uzimanje uzoraka forcepsom

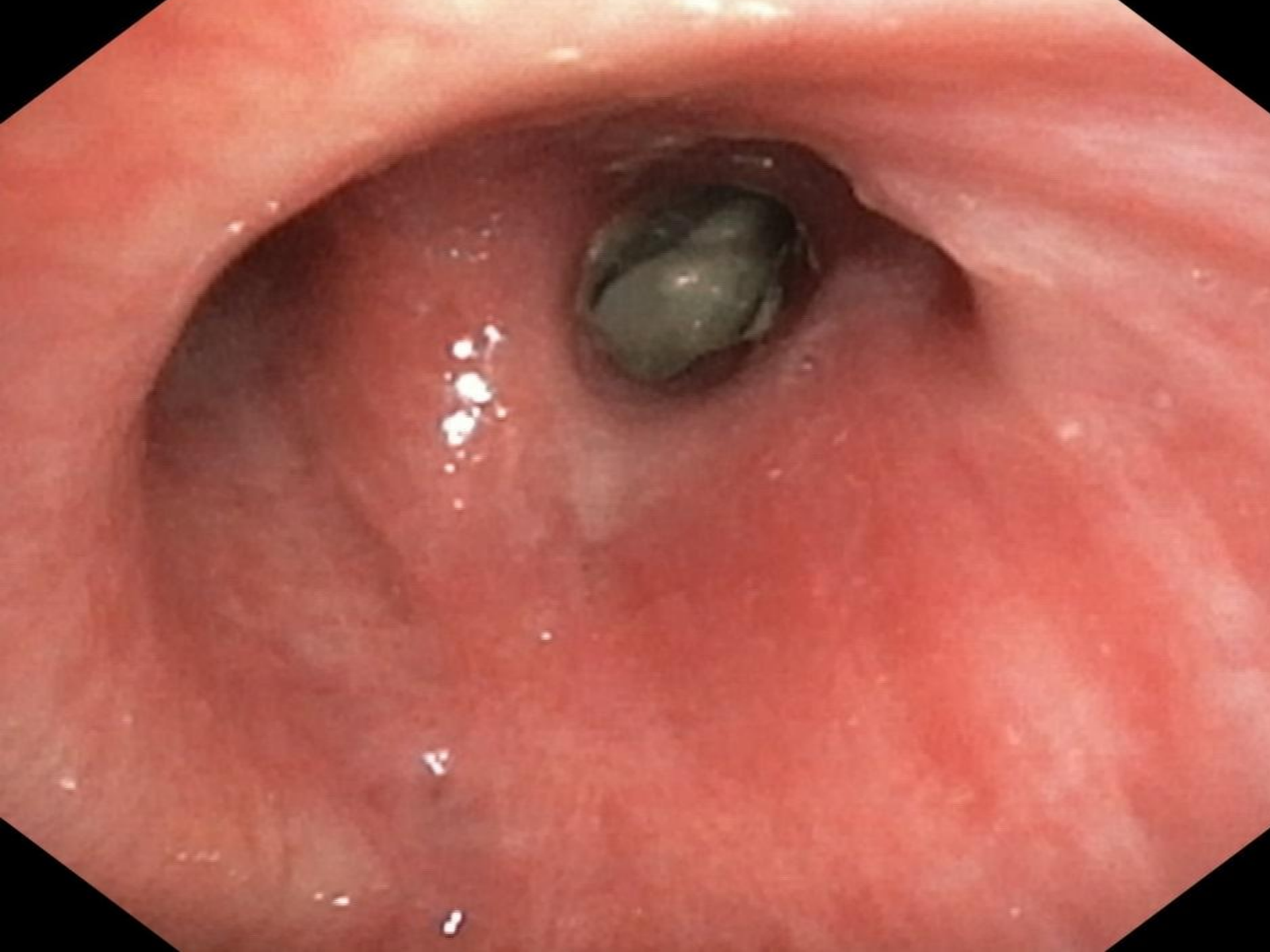
- Mali žičani instrument

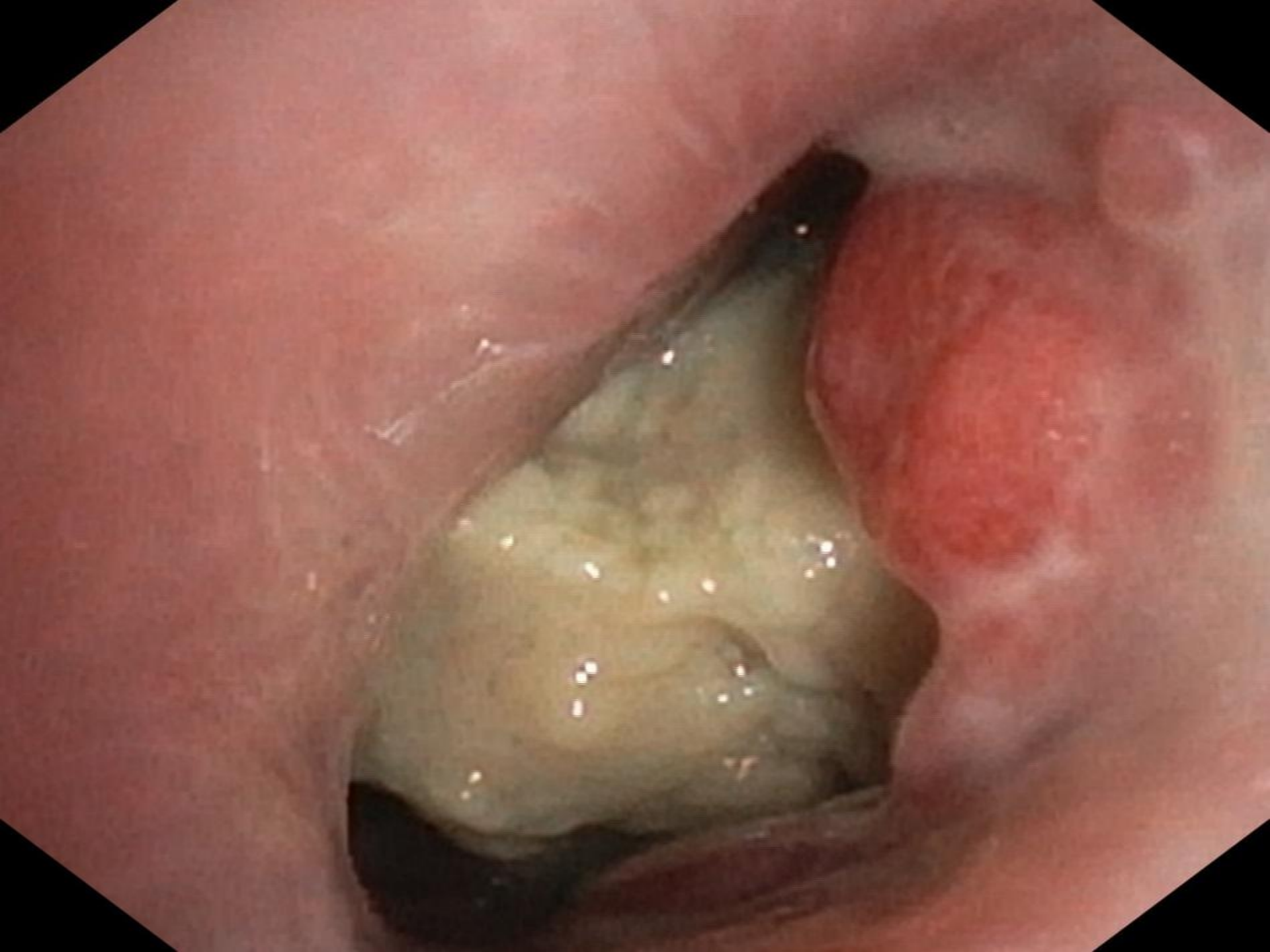


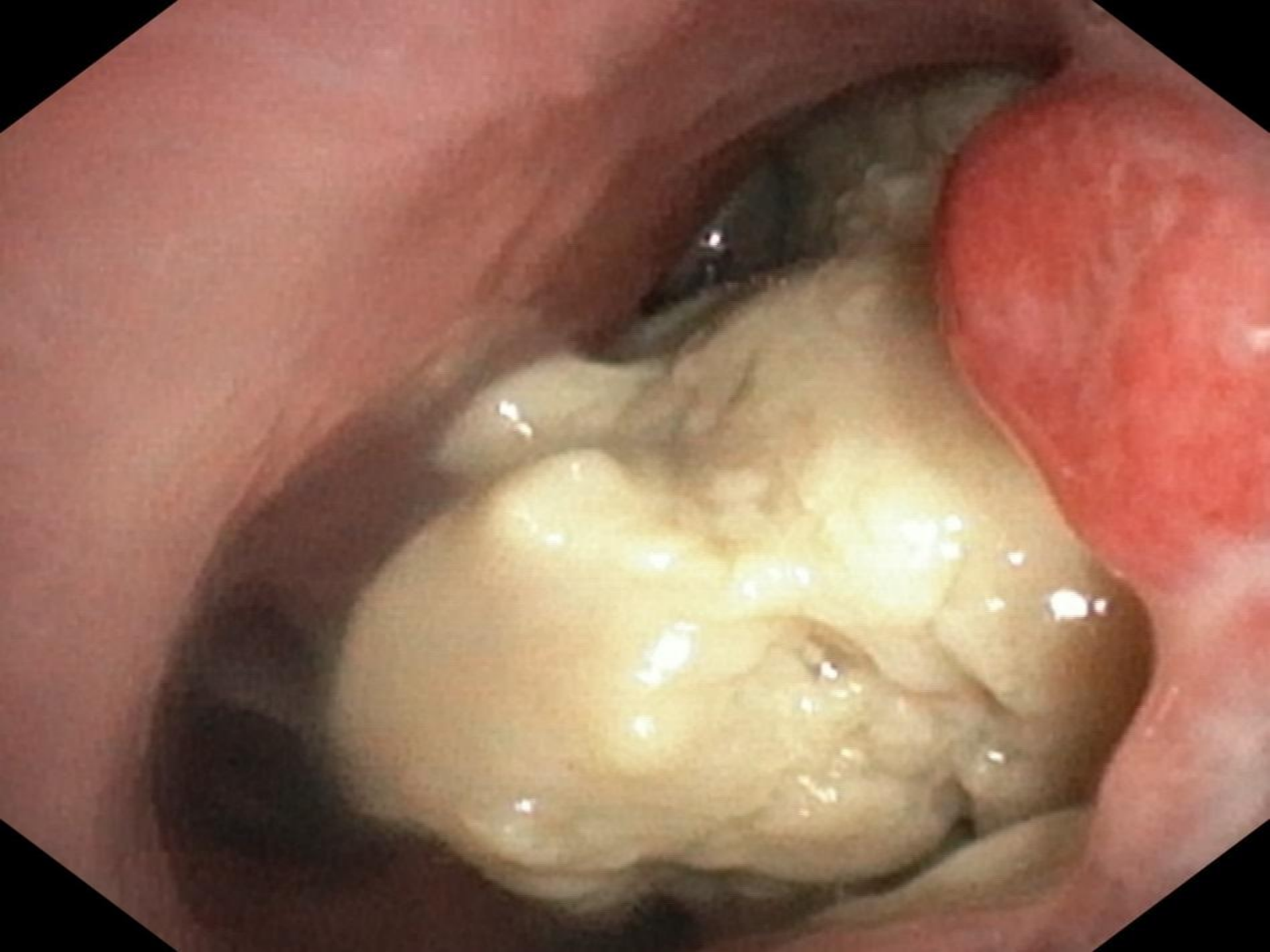


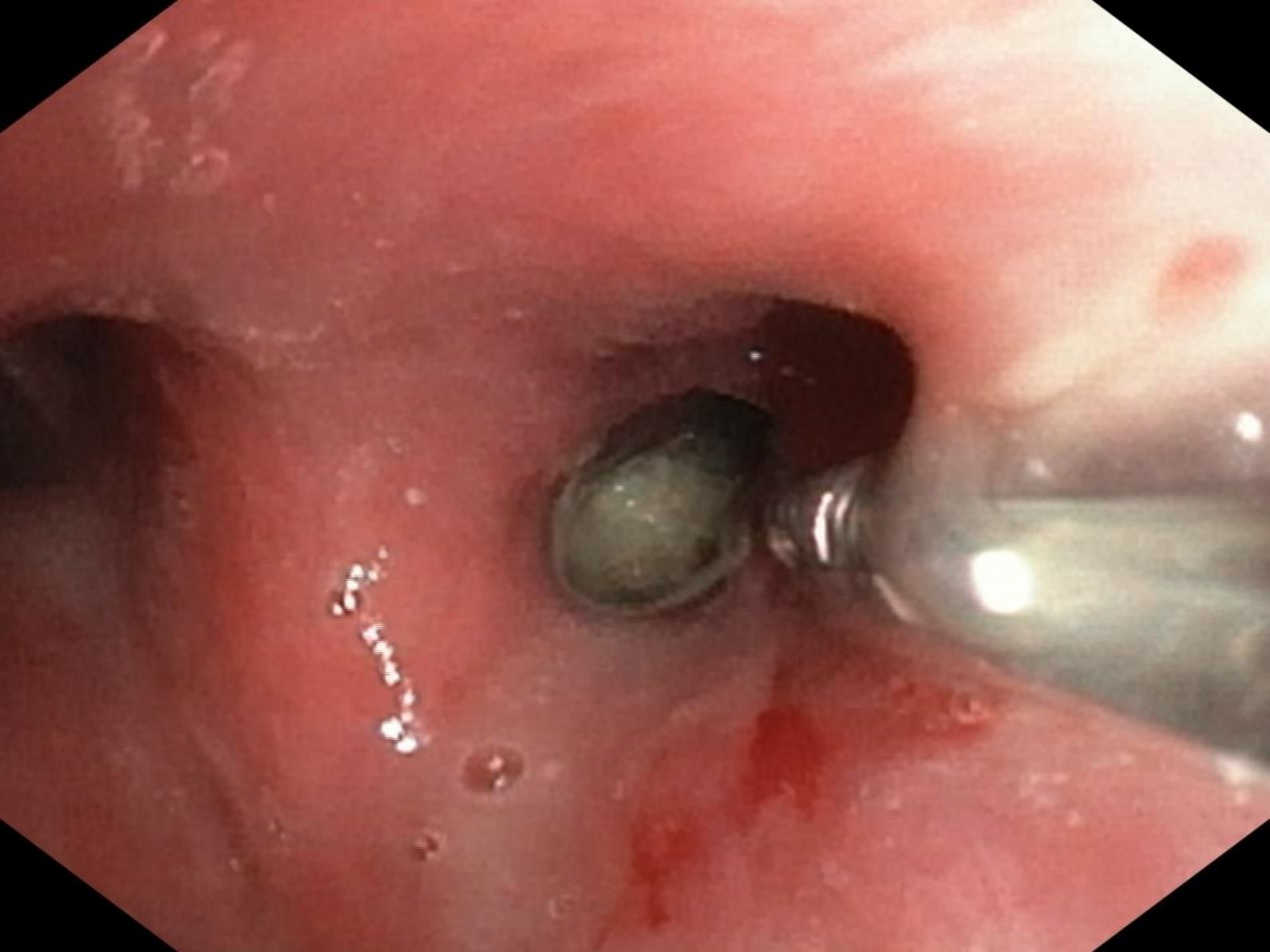


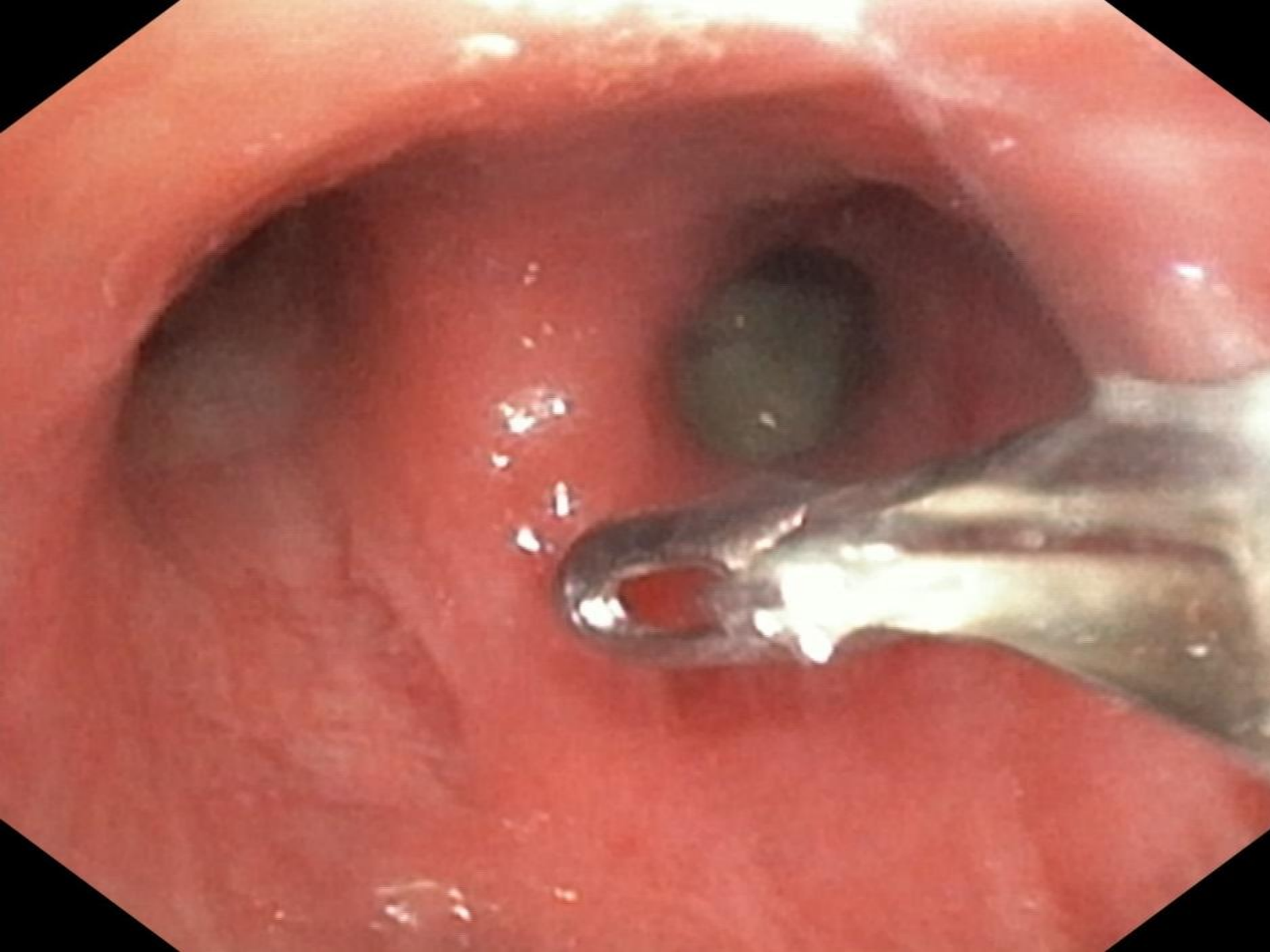


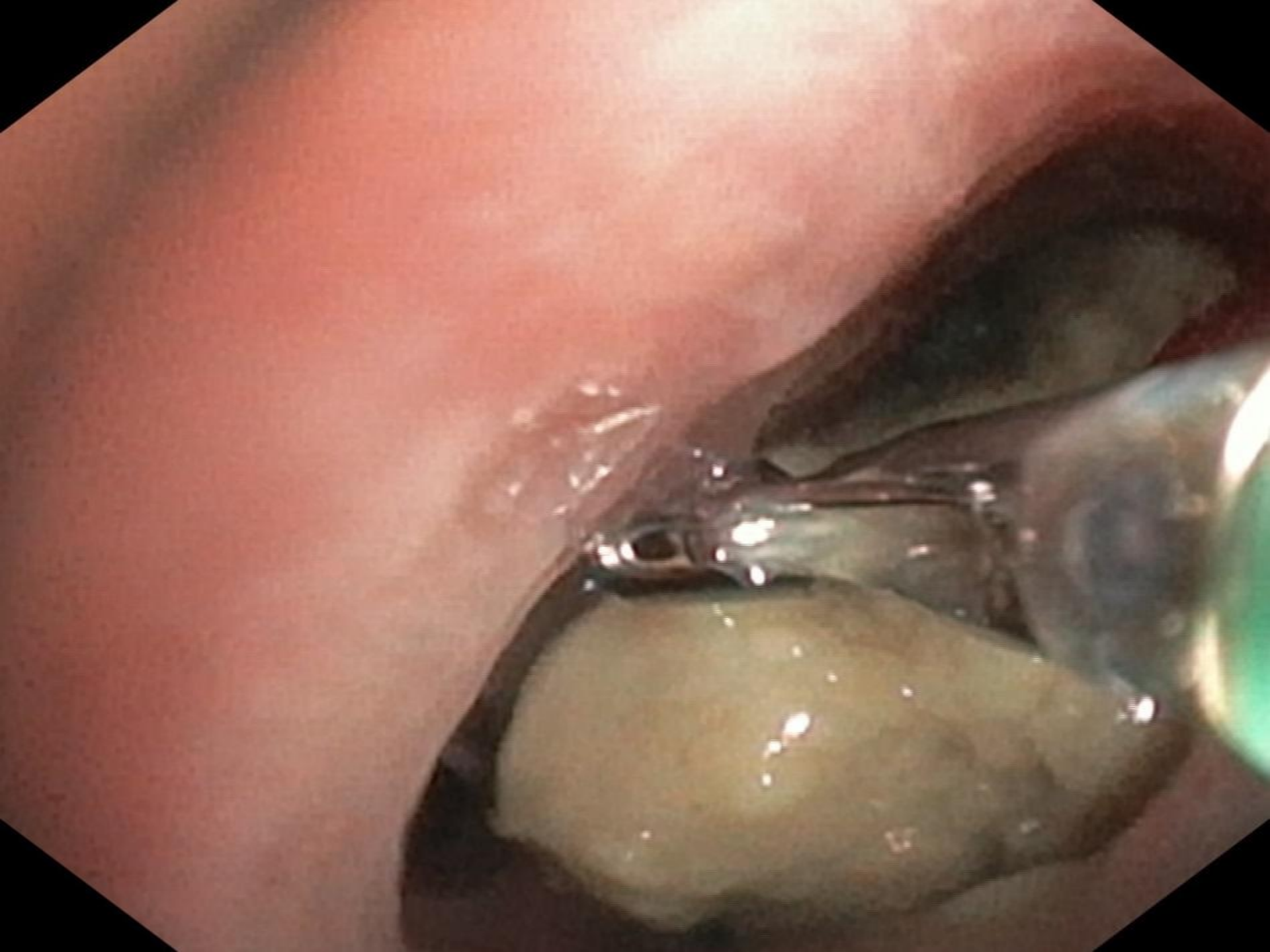


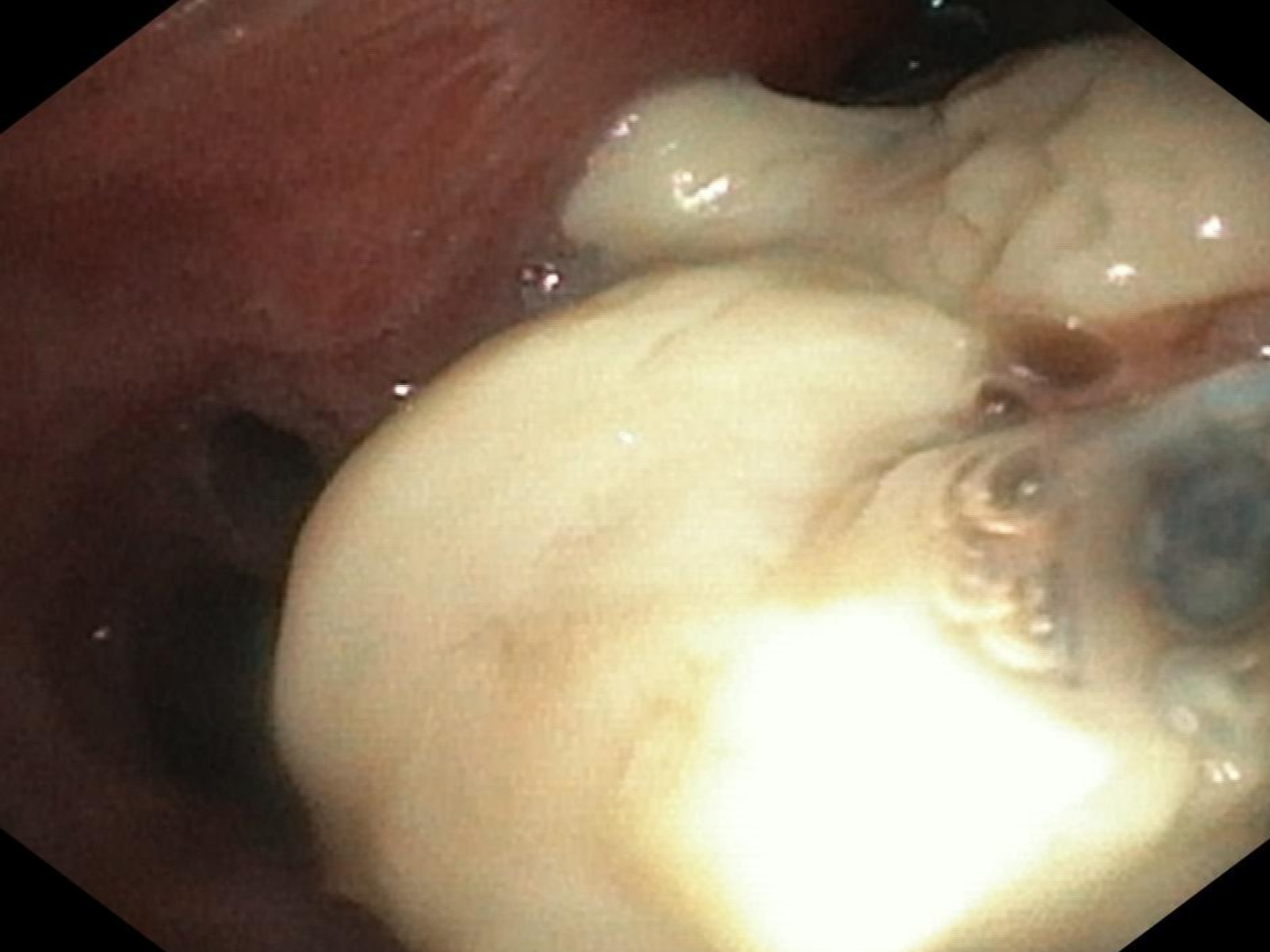




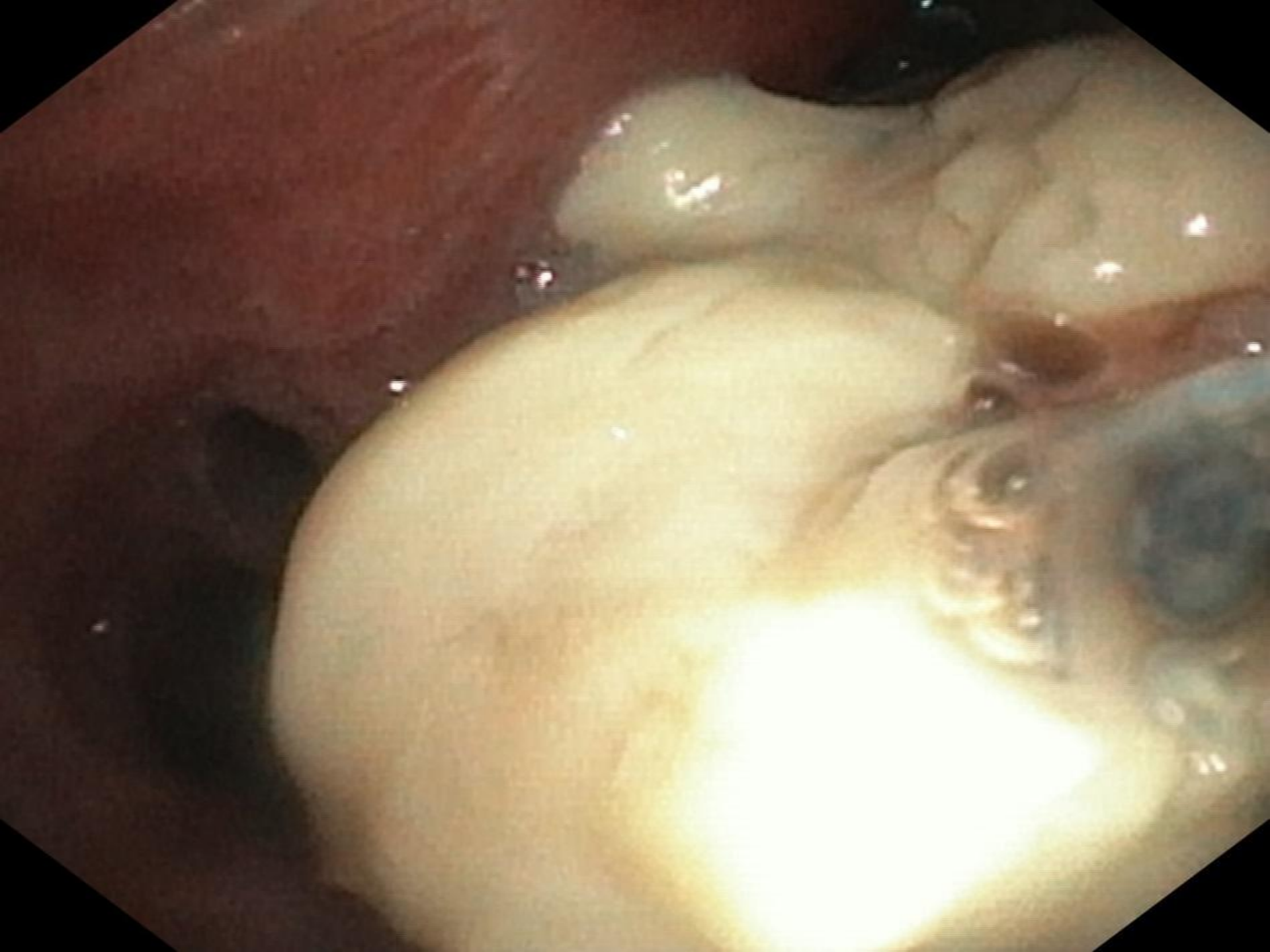


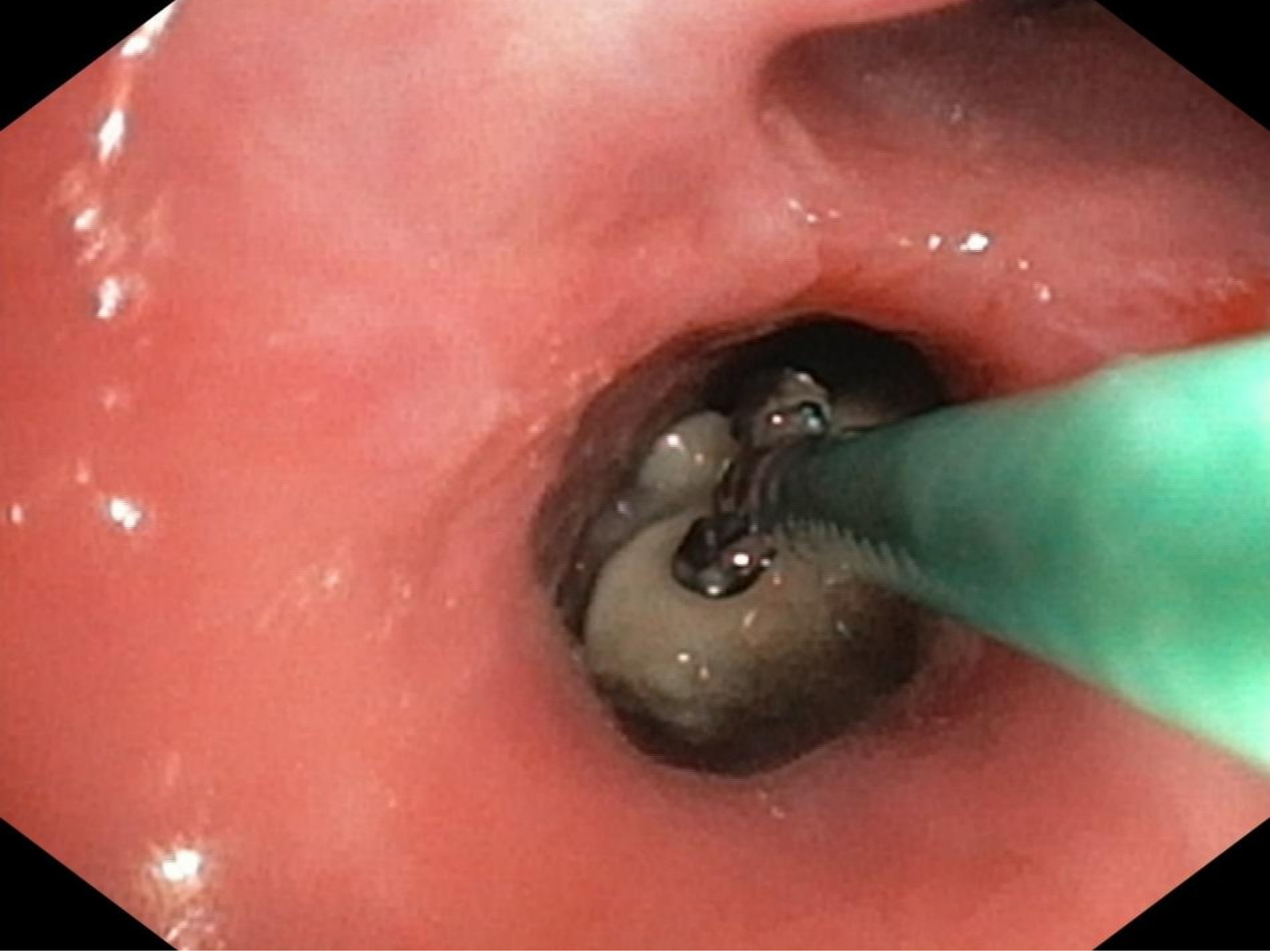


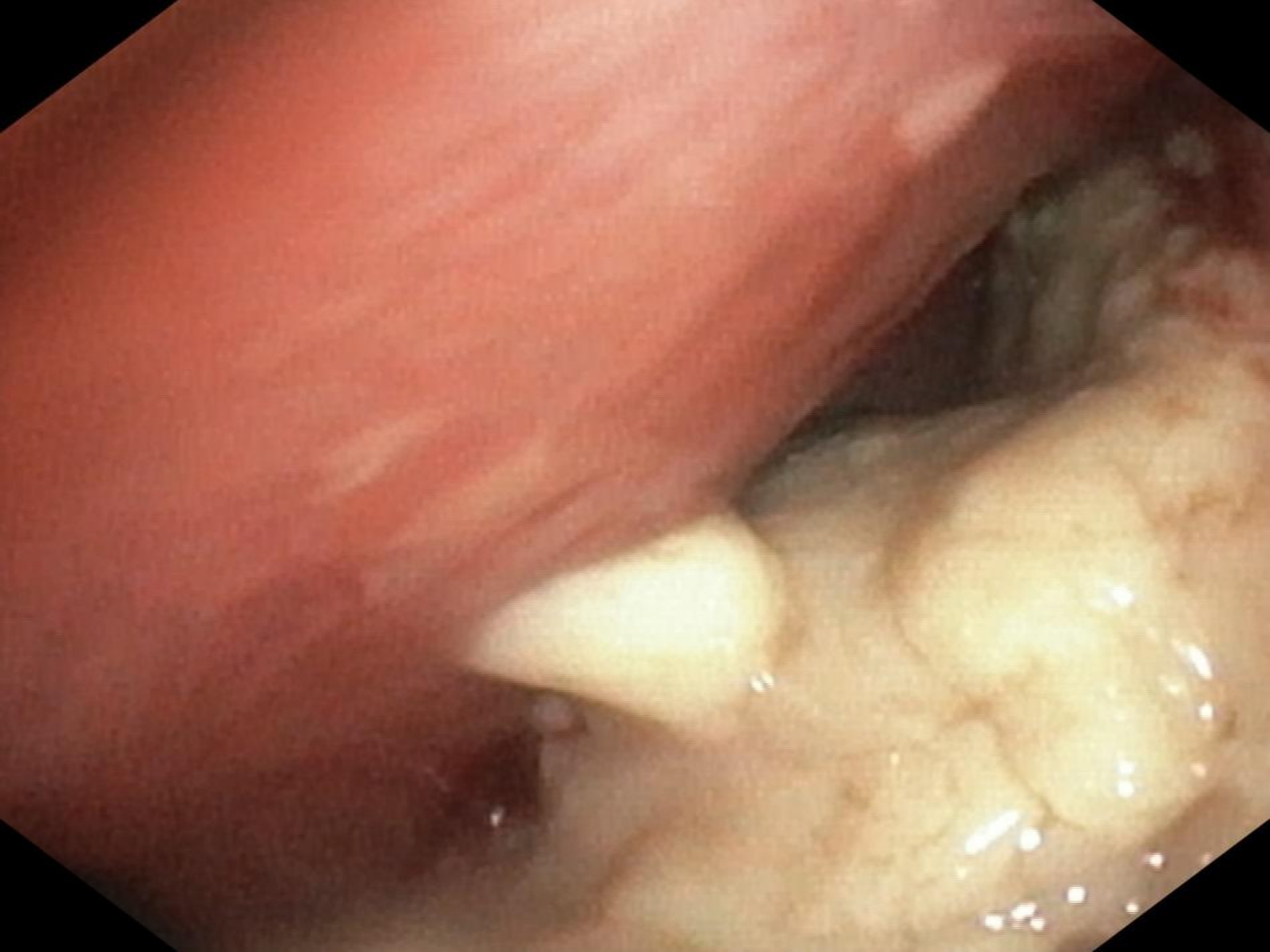


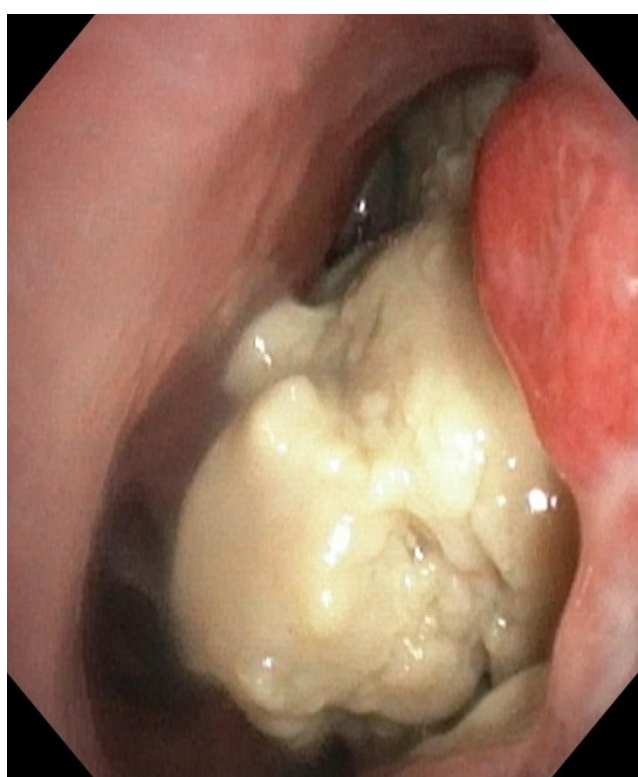
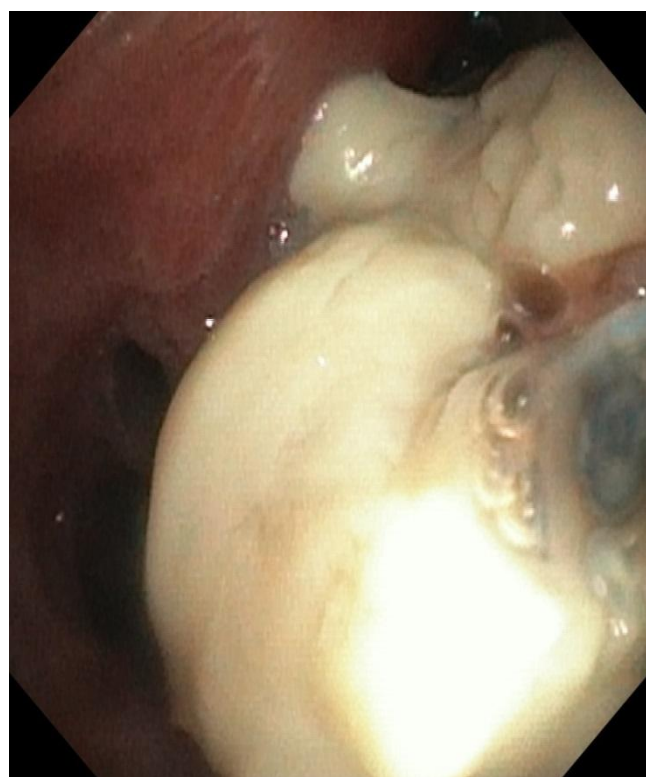
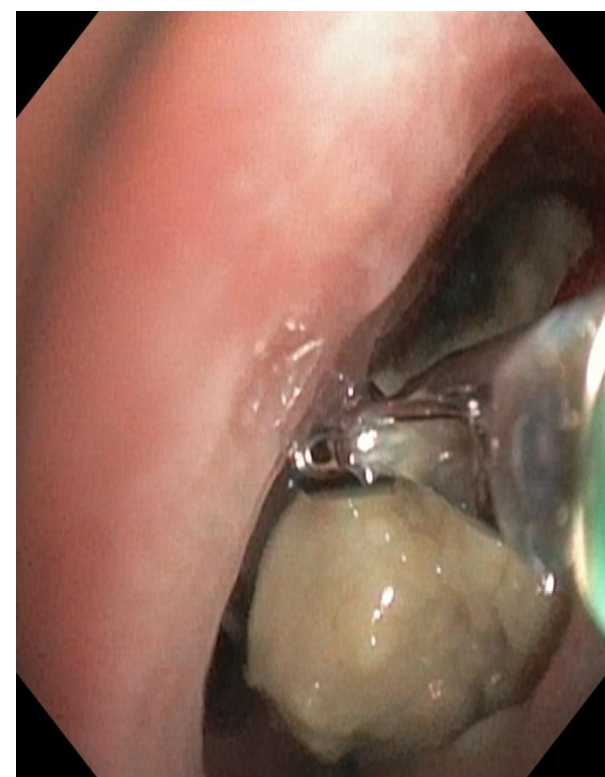
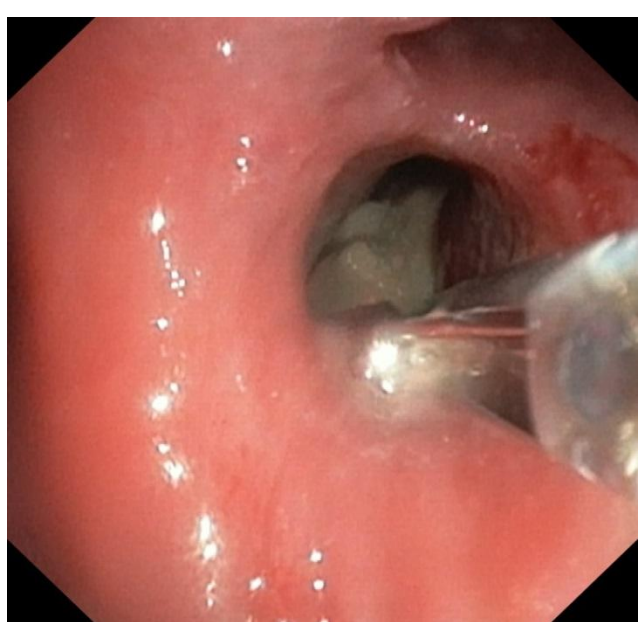
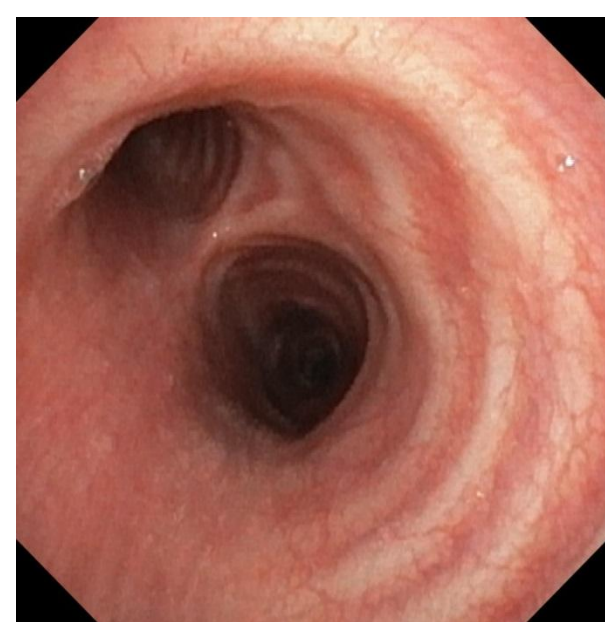












# Čuvanje i transport uzoraka

- Sterilna, dobro zatvorena epruveta
- Čuvati u frižideru na 2-8 °C do 24h
- Čuvati u zamrzivaču na -20°C do 5 meseci



# Zaključak

- Pravilno uzimanje, čuvanje i transport BAL-a i uzorka dobijenog biopsijom ubrzava postavljanje dijagnoze i početak lečenja



*Хвала на пажњи!*

