

# 2024 대한심장혈관흉부외과학회 제56차 추계학술대회

2024. 10. 31 (Thu) - 11. 01 (Fri) 여수 엑스포 컨벤션센터



## Use of Percutaneous NG Tube During Vacuum Assisted Closure in cases with Postoperative esophageal Leakage

### 공지사항

- 소속기관이나 저자명이 드러나지 않도록 해주세요.
- 제목 슬라이드 포함 최대 6장, Font size 20 이상
- PPT 파일 작성 후 PDF로 전환해서 접수(필수)

- Vacuum Assisted Closure (VAC)
  - Traditional usage
    - Widely exposed Sponge foam: suction could be applied on anywhere the sponge was located
    - Adhesive film, Drainage tube, Vacuum pump
- E-VAC
  - Effective
    - Large defect (>5cm): Sponge foam could be filled in



VAC



E-VAC

- Percutaneous NG tube VAC (P-NG VAC) has advantages in
  - 1) Sterile environment
  - 2) Mobilization of Head and Neck
  - 3) Better patient QOL
  - 4) Management of tracheostomy



⇒ We report a case successfully **treated with P-NG VAC** after failure of traditional VAC in a patient with cervical esophageal leakage.



# Case report

- 65/M
- Recurrent Lt. pyriform sinus ca. with esophageal invasion (Fig. 1)
- POD 0 Total Pharyngolaryngoesophagectomy with gastric pull-up (Fig. 2)
- POD 12 Confirmed Leakage
- POD 14 VAC application
  - Insufficient sealing due to tracheostomy caused less negative pressure
- POD 18 P-NG VAC apply (Fig. 3 & 4)
- POD 40 Confirmed No Leakage
  - Removal of P-NG VAC & Closure of wound
- POD 60 Discharge

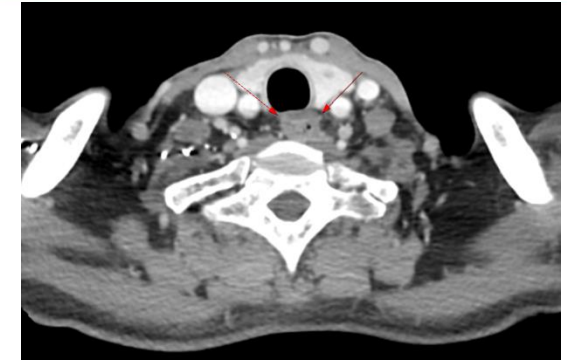


Fig. 1

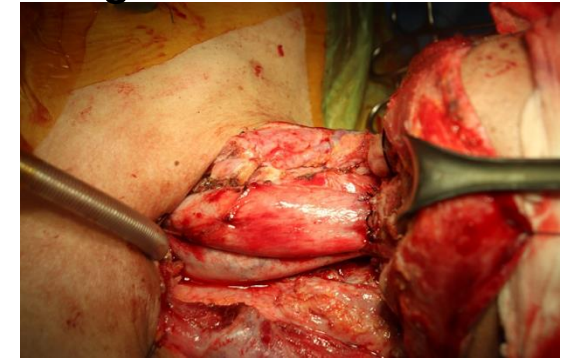


Fig. 2

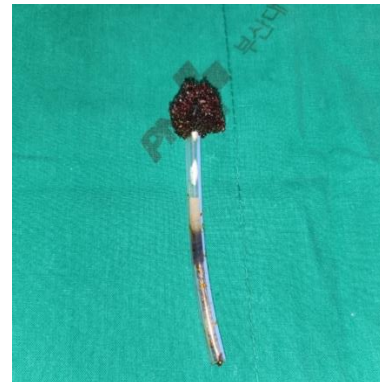


Fig. 3

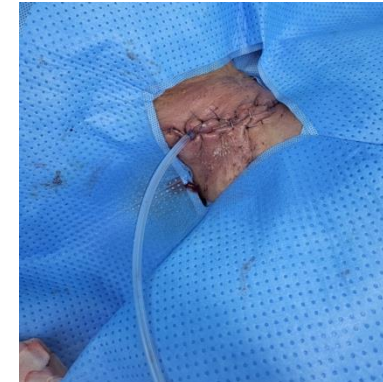
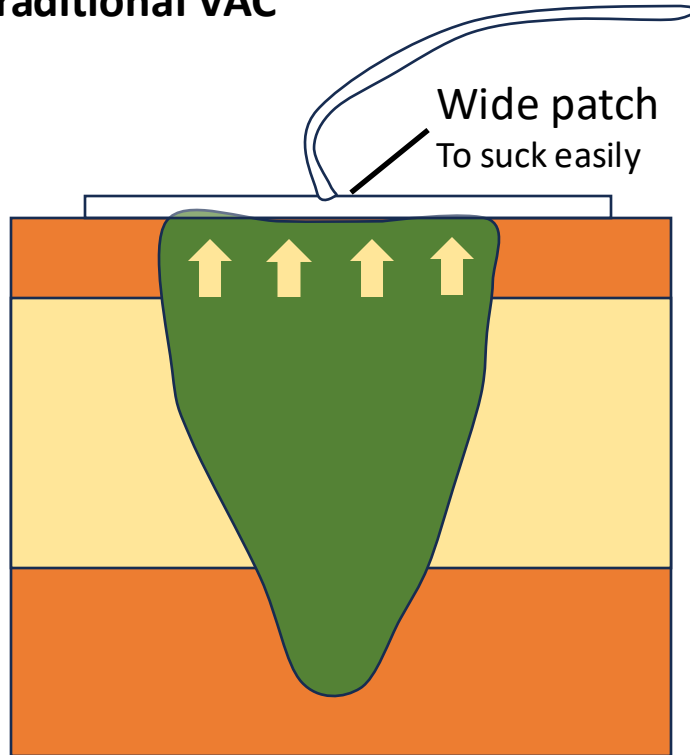


Fig. 4

# Mechanism of P NG VAC

Traditional VAC



## Advantages

### Wide patch

- Suction easily

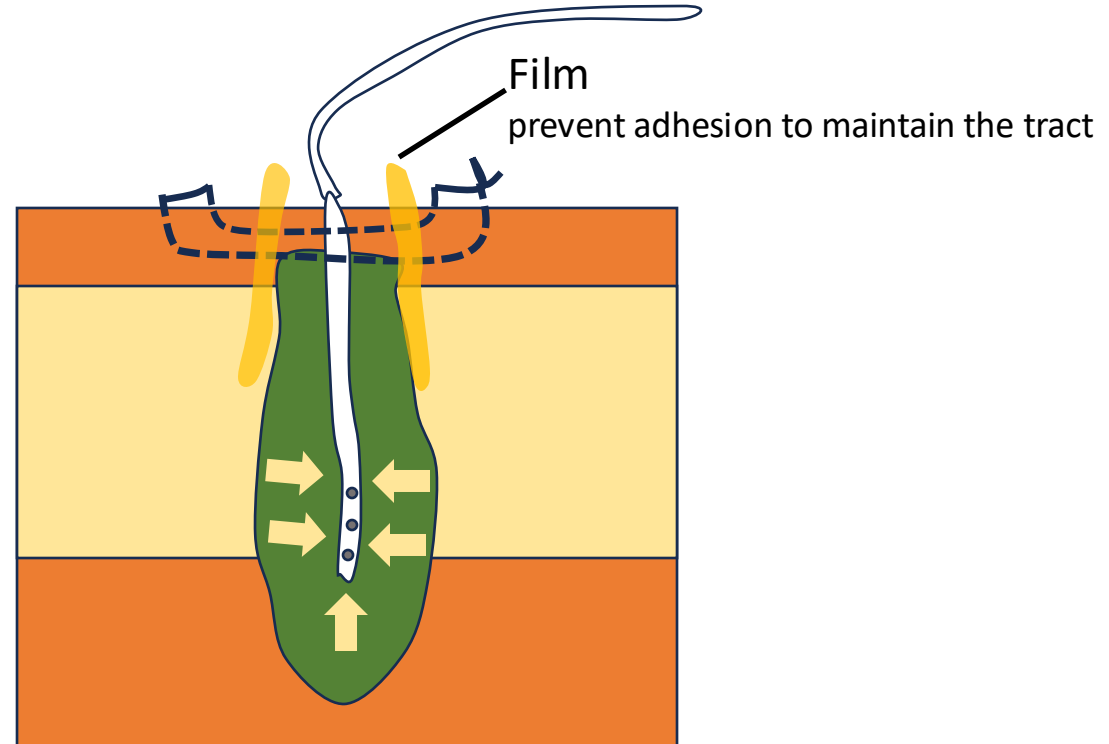
## Drawbacks

### Detachable

- easily tear off

**Difficult** to suck deep cavity

P-NG VAC



## Advantages

### Compact sealing

- sticky material(such as amylase) could easily be cleaned out

## Drawbacks

### Attachable

- Pursed ring suture to coaptate the opening

Cervical esophageal leakage by conventional VAC

Difficult to apply compact suction due to anatomical structure and conventional methods

**⇒ Percutaneous NG tube VAC can be effectively sealed to clean it out.**