

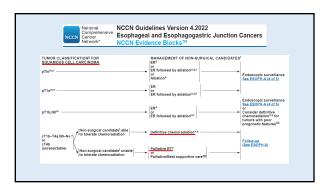
#### **Disclosure**

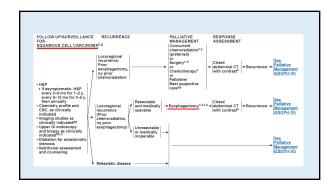
Speaker name: I-Hui Wu

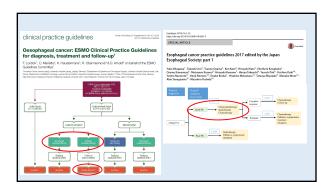
■ I do not have any potential conflict of interest

## Aorto-esophageal fistula

- Most common causes
  - Thoracic aortic aneurysm
  - ingestion of a foreign body
  - advanced esophageal cancer
- Chiari triad
  - midthoracic pain
  - sentinel arterial hemorrhage
  - final exsanguination
    - it is unpredictable with the symptom free interval

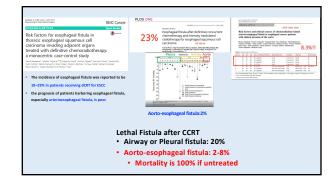


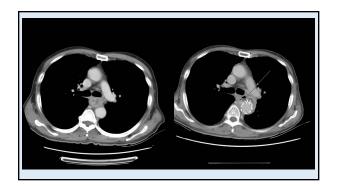




## **Advanced esophageal cancer**

- Definite or palliative or neoadjuvant chemoradiation therapy (CCRT) is the standard treatment
  - Incidence of aortoesophageal fistula (AEF) after CCRT for locally advanced esophageal cancer?
  - What is the role and risk/benefits of TEVAR procedure?



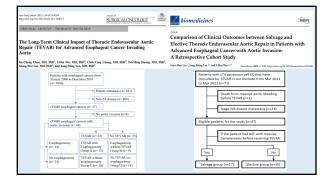


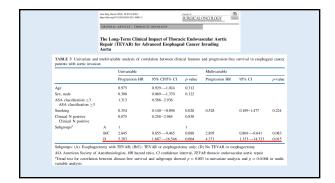
# **Purpose of prophylactic TEVAR** Cover the site of advanced esophageal cancer invasion

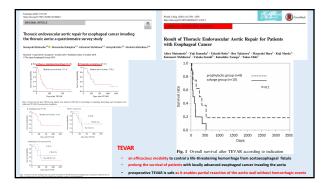
- Prevent catastrophic AEF after CCRT related tumor necrosis
- Facilitate further curative resection if possible

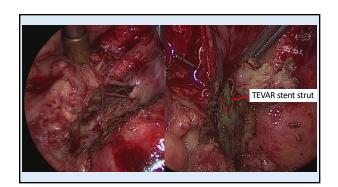


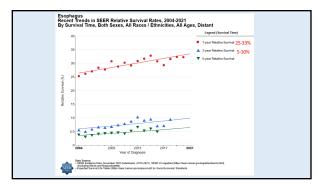


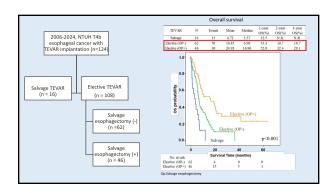












Progression-free survival					Overall survival			
Variable	Univariate HR (95% CI)	p-value	Multivariate HR (95% CI)	p-value	Univariate HR (95% CI)	p-value	Multivariate HR (95% CI)	p-value
Age								
≤65	1		1		1		1	
>65	0.88(0.57-1.37)	0.579	0.96(0.60-1.53)	0.851	1.05(0.67-1.64)	0.830	1.10(0.68-1.79)	0.687
Gender								
Female	1		1		1		1	
Male	0.98(0.48-2.02)	0.953	0.78(0.37-1.65)	0.513	1.00(0.44-2.94)	0.996	0.89(0.38-2.09)	0.783
cN								
cN=0	1		1		1		1	
cN=1	1.25(0.43-3.68)	0.681	0.88(0.29-2.65)	0.822	1.16(0.39-3.45)	0.797	0.80(0.26-2.45)	0.700
cN=2	0.98(0.35-2.78)	0.974	0.73(0.25-2.09)	0.552	0.91(0.32-2.59)	0.862	0.73(0.25-2.12)	0.566
cN=3	1.84(0.66-5.15)	0.244	1.10(0.38-3.20)	0.867	1.59(0.56-4.48)	0.382	1.01(0.34-2.98)	0.983
cM								
cM=0	1		1		1		1	
cM=1	1.86(1.25-2.76)	0.002	1.86(1.11-3.12)	0.019	1.49(0.99-2.25)	0.056	1.17(0.68-1.99)	0.570
CCRT after TEVAL	R							
No	1				1			
Yes	0.79(0.49-1.27)	0.327			0.59(0.36-0.98)	0.040		
Group								
Salvage	1		1		1		1	
Elective (OP-)	0.59(0.33-1.04)	0.066	0.44(0.23-0.84)	0.012	0.42(0.23-0.76)	0.004	0.38(0.20-0.74)	0.005
Elective (OP+)	0.31(0.17-0.58)	< 0.001	0.36(0.19-0.69)	0.002	0.19(0.10-0.37)	< 0.001	0.21(0.11-0.41)	< 0.001

#### Conclusion

- In patients with advanced esophageal cancer with aortic invasion
  - Prophylactic TEVAR before CCRT
    - feasible with low perioperative morbidity and mortality
    - facilitate subsequent curative resection for advanced esophageal cancers
    - prevent AEF
  - In conjunction with salvage esophagectomy
    - better disease progression-free survival
    - better overall survival

