

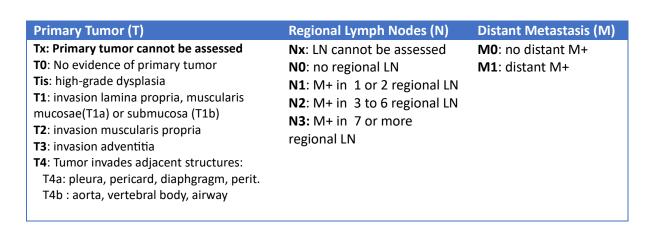
ESOPHAGEAL CANCER

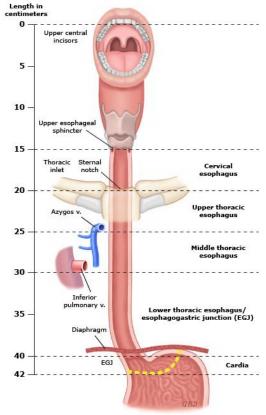
General Overview

- 6th most common cause of death worldwide.
- Two histological types: squamous cell carcinoma (SCC) and adenocarcinoma (AC)
- SCC mostly located in the mid-esophagus while AC mostly located near the junction (GEJ)
- Worldwide SCC predominates, but in Western countries >60% AC.
- Risk factors: smoking, HPV and alcohol (SCC); Barrett, o besity and smoking (AC)
- Clinical symptoms: dysphagia and weight loss

Staging (AJCC Version 8) and Prognosis

- PET-CT, endoscopy, (endoscopic ultrasound)
- Bronchoscopy indicated for tumors located at or > carina.
- Laryngoscopy is recommended of cervical SCC
- All patients should be checked for nutritional status (if needed jejunostomia)
- Tumors involving the GEJ with the tumor epicenter no more than 2cm into the proximal stomach are staged as esophageal cancer while GEJ tumors with their epicenter >2cm into the proximal stomach as gastric cancer, as are all cardi cancers not involving the GEJ (even if <2cm of the GEJ)
- Location (position of the epicenter of the tumor):
 - Upper: cervical esophagus to lower border of azygous vein
 - o Middle: lower border of azygos vein to lower border of inferior pulmonary vein
 - Lower: Lower border of inferior pulmonary vein to stomach, including GEJ

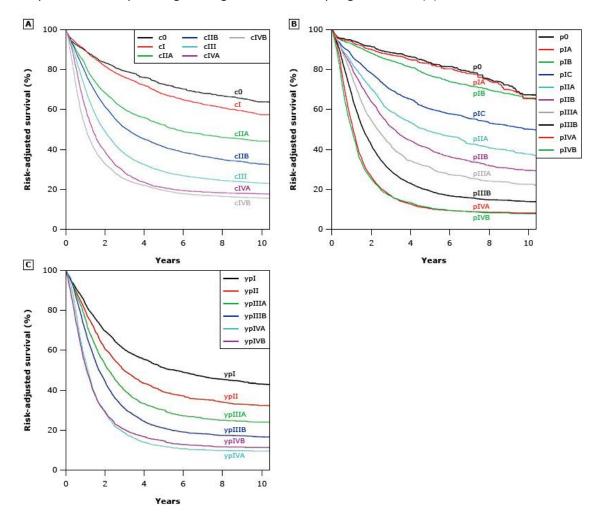








• Prognosis: risk adjusted survival after treatment decision for clinical (A), pathological (B) and posttreatment pathological staged AC of the esophagus and GEJ (C)



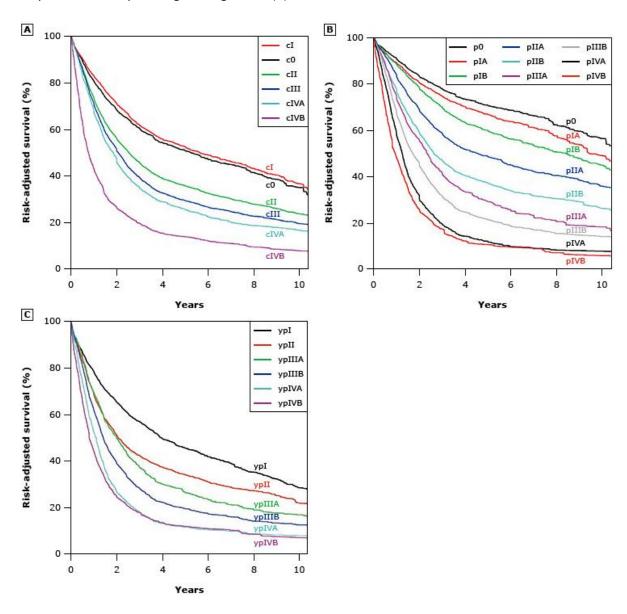
Pathological stages posttreatment AC (ypTNM)

урТ	ypN	М	Stage
T0-2	NO	0	1
T3	N0	0	II
T0-2	N1	0	IIIA
T3	N1	0	IIIB
T0-3	N2	0	IIIB
T4a	N0	0	IIIB
T4a	N1-2	0	IVA
T4a	NX	0	IVA
T4b	N0-2	0	IVA
Any T	N3	0	IVA
Any T	Any N	1	IVB





• Prognosis: risk adjusted survival after treatment decision for clinical (A), pathological (B) and posttreatment pathological staged SCC (C)



• Pathological stages posttreatment SCC (ypTNM)

урТ	ypN	М	Stage
T0-2	N0	0	1
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T4a	NX	0	IVA
T4b	N0-2	0	IVA
Any T	N3	0	IVA
Any T	Any N	1	IVB



Treatment

- Management of carcinoma in the cervical esophagus is more closely related to SCC of the H&N and therefore definitive chemoradiotherapy (cisplatin 75 mg/m² w1 and w5, 2 cycles of infusional 5-FU 1000 mg/m² d1-4 weeks 1 and 5) (1) is preferred over surgery
- For patients with T3/4N0 and node-positive disease we recommend neoadjuvant therapy
 - Concurrent chemoradiotherapy for esophageal tumors (both SCC and AC)
 - o Perioperative chemotherapy FLOT) for GEJ tumors (cfr gastric cancer) is an alternative
- Chemoradiotherapy schedule:
 - CROSS schedule: carboplatin + paclitaxel weekly (2)
 - Alternative: cisplatin + 5FU (cfr above)
- Postoperative therapy:
 - o In case of no neo-adj therapy and pT3/4, N+ or bad prognostic factors (LV invasion, young patients, ...): adjuvant chemotherapy (no validated schedule, eg. FOLFOX)
 - In case of residual disease after preoperative chemoRT: <u>nivolumab for 1 year</u> based on the checkmate 577 trial (3)
- Follow-up after surgery:
 - Every 3-4 months for the first 2y with imaging (preferably CT), followed by 6 monthly until 5 years.

Metastatic disease

- Many trials included both esophageal and gastric cancer regardless of histology and therefore general treatment such as chemotherapy regimens converged.
- o With molecular targeted and immunotherapy, therapies for SCC and AD have diverged
- All AC should be tested for HER2 (IHC + ISH)
- Al SCC + AC should be tested for MSI and PD-L1
- Squamous cell cancer:
 - 1st line (4,5):
 - If CPS ≥10 or TPS ≥1 : chemo (platinum/5FU) + pembro or nivolumab
 - Preference for FOLFOX as chemotherapy
 - 2nd or later lines: Nivolumab, Taxanes or FOLFIRI

O Adenocarcinoma :

- 1st line (6-9):
 - HER2+: pembrolizumab + trastuzumab + 5FU + platinum
 - HER2- / CPS ≥10: chemo + pembrolizumab or nivolumab
 - HER2-/ CPS≥5: chemo + nivolumab
 - HER2-/CPS≥1: chemo + pembrolizumab
 - Preference for FOLFOX as platinum based chemotherapy
- 2nd line (10-12):
 - MSI-H: pembrolizumab monotherapy
 - HER2+ (confirmed on repeated biopsy): trastuzumab deruxtecan, based on DESTINY Gastric01
 - HER2-: Paclitaxel + ramucirumab or ramucirumab monotherapy
- Later lines: FOLFIRI, TAS102



- Pembrolizumab reimbursement Belgium:
 - 1st line HER2+ AC gastric or GEJ, CPS ≥ 1 in combination with trastuzumab, 5FU and platinum (in theory no reimbursement in combination with capecitabine or oxaliplatin)
 - o 1st line HER2 neg. AC gastric or GEJ, CPS ≥ 1 in combination with platinum and 5-FU
 - 1st line HER2 neg. esoph / gastric / GEJ, CPS ≥10 in combination with platinum and 5FU
 - o 2nd or later lines: MSI-H gastric
- Nivolumab reimbursement Belgium:
 - o Adjuvant esophageal / GEJ after neo-adj chemoRT and residual disease (no pCR)
 - o 2nd line monotherapy in SCC after platinum+5FU
 - o 1st line SCC in combination with platinum/5FU if TPS≥1
 - o 1st line HER2 negative esoph, gastric or GEJ, CPS≥5 in combination with platinum /5FU
- Trastuzumab deruxtecan reimbursement Belgium
 - o HER2+ AC gastric or GEJ
 - o Previously treated with trastuzumab
 - o HER2+ ISH positive

References

- 1) RTOG 85-01 (Herskovic trial): NEJM 1992;326(24):1593
- 2) CROSS trial: NEJM 2012 (van Hagen et al), Lancet onc 2014 (Shapiro), JCO 2021 (Eyck BM)
- 3) Checkmate 577: NEJM 2021 (Kelly RJ et al)
- 4) CheckMate 648: NEJM 2022 (Doki Y et al)
- 5) Keynote 590: Lancet 2021 (Sun JM et al)
- 6) TOGA trial: Lancet 2010 (Bang YJ et al)
- 7) Janjigian YY et al Lancet Oncol 2020
- 8) Checkmate 649: Lancet 2021 (Janjigian et al) Nature 2022 (Shitara K et al)
- 9) Keynote 859: Lancet oncol 2023 (Rha SY et al)
- 10) DESTINY-Gastric01: NEJM 2020 (Shitara K et al)
- 11) REGARD trial: Lancet 2014 (Fuchs CS et al)
- 12) RAINBOW trial: Lancet Oncol 2014 (Wilke H et al)

What's new?

- RATIONALE 302: tislelizumab versus chemo in ESCC 2nd line (JCO 2022 and ESMO open 2024)
- RATIONALE 306: chemo + /- tislelizumab as 1st line (Lancet oncol 2023, Xu et al)