Dienst Oncologie

ANAL CANCER

General Overview

UZA'

- Incidence has increased, particular among women
- Risk factors: Female, HPV infection, smoking, HIV, anal intercourse, multiple sexual partners
- Symptoms: bleeding, rectal mass, asymptomatic
- Lymphatic drainage
 - Above dentate line: mesorectal and internal iliac nodes
 - o Below dentate line: superficial inguinal and external iliac nodes
- ! The anal canal extends from rectum to perianal skin. Tumours of anal margin and perianal skin defined as within 5 cm of the anal margin are now classified with carcinoma of the anal canal!

Staging (AJCC Version 9) and Prognosis

- PET-CT, digital rectal examination, anoscopy, palpation regional LN
- For women: screen as well for cervical cancer
- Prognosis:
 - o 50% Localized: 80% 5y survival
 - o 30% Local involvement: 60% 5y survival
 - o 20% distant metastasis: 30% 5y survival



Primary Tumor (T)	Regional Lymph Nodes (N)	Distant Metastasis (M)
 Tx: Primary tumor cannot be assessed T0: No evidence of primary tumor Tis: carcinoma in situ, Bowen, HSIL, AIN II-III T1: Tumor 2cm or less in greatest dimension T2: Tumor > 2 cm but no more than 5 cm in greatest dimension T3: Tumor > 5 cm in greatest dimension T4: Tumor of any size invades adjacent organ(s), eg vagina, urethra, bladder (direct invasion of the rectal wall, perianal skin, SC tissue or the sphincter muscle is not classified as T4) 	 Nx: LN cannot be assessed N0: no regional LN N1: metastasis in regional LN N1a: inguinal, mesorectal, superior rectal, internal iliac, obturator lymphnodes N1b: external iliac nodes N1c: N1b with any N1a node 	M0: no distant M+ M1: distant M+

- Anatomic Stage (<u>https://acsjournals.onlinelibrary.wiley.com/doi/10.3322/caac.21780</u>)
 - Stage I: T1N0M0
 - Stage IIA: T2N0M0
 - Stage IIB: T1-2N1M0
 - Stage IIIA: T3N0-1M0
 - Stage IIIB: T4N0M0
 - Stage IIIC: T4N1M0

Update: December 2024

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- Local excision in carefully selected patients
- Chemoradiotherapy (with mitomycine / 5-FU) for localized disease (1,2)
- Substitution of capecitabine for 5-FU is acceptable
- Replacement of mitomycin by cisplatin: similar pCR, PFS and OS (3)
- Monitor treatment response:
 - Clinically 8 12 weeks after completion of chemoradiotherapy
 - In case of clinical complete response (CR): re-evaluate 3 6 months with DRE, anuscopy
 - Annual CT thorax/Abdomen for at least 3 years
 - 26 weeks is the optimal time to assess CR if salvage surgery is discussed . Residual tumour should be confirmed histologically (4)
- Treatment of metastatic disease:
 - Cisplatin 5FU in the past standard first line option (60% RR)
 - Carbo/Taxol (InterAACT trial) (5) currently standard because of similar RR but better survival and tolerability
 - No standard second line. Options:
 - FOLFIRI
 - Paclitaxel
 - Cetuximab (KRAS wild type) (no reimbursement or label)
 - Immunotherapy: nivolumab, pembrolizumab (no reimbursement or label)

References

- 1) ACT I trial: Lancet 1996 and Northover J et al Br J Cancer 2010
- 2) EORTC trial: JCO 1997;15(5):2040
- 3) ACT II trial: Lancet Oncology 2013
- 4) Lancet oncology feb 2017 (Glynne-Jones R et al)
- 5) JCO 2020 Rao S et al

What's new ?

- Phase II with nivolumab 3mg/kg Q2W (Lancet oncology 2017):
 - o 37 patients, 24% RR, PFS 4.1m, mOS 11.5m
- Keynote 028 with pembrolizumab 10 mg/kg Q2W (Annals of oncology 2017):
 - o 25 patients, 17% RR,
- Keynote 158 with pembrolizumab 200 mg Q3W (Lancet Gastroenterol Hepatol 2022)
 - o 112 patients, 11% RR, mOS 11.9m
- PODIUM-303 study (ESMO 2024): phase 3 (Rao S, et al, INTERAACT 2)
 - Retifanlimab (anti-PD1) + carboplatin/paclitaxel superior to chemo alone
 - PFS 9.3 vs 7.4 months. Crossover allowed. OS data immature but trend to better OS
 - In the future probably new standard