touchPANEL DISCUSSION

Adverse event identification and management in locally advanced/metastatic urothelial carcinoma



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Identifying and managing the possible adverse events associated with:

Antibody-drug conjugates

FGFR inhibitors

Immune checkpoint inhibitors



ESMO and NCCN guidelines: Targeted agents and immunotherapy in LA/m urothelial carcinoma^{1,2}

Antibody-drug conjugates	Enfortumab vedotin	Second line
	Sacituzumab govitecan	Subsequent lines (NCCN)
FGFR inhibitors	Erdafitinib	Second line
PD-1/PD-L1 inhibitors	Atezolizumab	First line (NCCN/ESMO); second line (ESMO)
	Avelumab	Maintenance
	Nivolumab	Second line (NCCN)
	Pembrolizumab	First and second line

ESMO, European Society for Medical Oncology; FGFR, fibroblast growth factor receptor; LA/m, locally advanced or metastatic;

NCCN, National Comprehensive Cancer Network; PD-1, programmed cell death protein 1; PD-L1, programmed death ligand 1.

1. Powles T, et al. Ann Oncol. 2022;33:244–58; 2. NCCN. Bladder Cancer V2.2023. Available at: www.nccn.org/professionals/physician_gls/pdf/bladder.pdf (accessed 10 May 2023).



Identifying and managing the possible adverse events associated with antibody-drug conjugates





1. Stecca C, et al. Ther Adv Med Oncol. 2021;13:1–18; 2. Hayashi T, Hinata N. Int J Urol. 2022;29:1100–8.



*Neutrophil count decreased has been recoded to neutropenia.

AE, adverse event.

1. Powles T, et al. N Engl J Med. 2021;384:1125–35; 2. EMA. Enfortumab vedotin SmPC. Available at: www.ema.europa.eu/en (accessed 10 May 2023).



• Sacituzumab govitecan adverse event profile^{*} Common AEs grade ≥3¹ Additional AEs of special interest²



AE, adverse event; ESMO, European Society for Medical Oncology; NCCN, National Comprehensive Cancer Network.

1. Tagawa ST, et al. *J Clin Oncol*. 2021;39:2474–85; 2. FDA. Sacituzumab govitecan PI. Available at: www.accessdata.fda.gov/drugsatfda_docs/label/2023/761115s035lbl.pdf (accessed 10 May 2023); 3. NCCN. Bladder Cancer V2.2023. Available at: www.nccn.org/professionals/physician_gls/pdf/bladder.pdf (accessed 10 May 2023); 3. NCCN. Bladder Cancer V2.2023. Available at: www.nccn.org/professionals/physician_gls/pdf/bladder.pdf (accessed 10 May 2023).



Identifying and managing the possible adverse events associated with FGFR inhibitors











AE, adverse event; CSR/RPED, central serous retinopathy/retinal pigment epithelial detachment. 1. Loriot Y, et al. *N Engl J Med*. 2019;381:338–48; 2. FDA. Erdafitinib PI. Available at: <u>www.accessdata.fda.gov/drugsatfda_docs/label/2019/212018s000lbl.pdf</u> (accessed 10 May 2023).



Identifying and managing the possible adverse events associated with immune checkpoint inhibitors



Mechanism of action of PD-1/PD-L1 inhibitors









Restored anti-tumour T-cell response



PD-1, programmed cell death protein 1; PD-L1, programmed death ligand 1. Liu J, et al. Front Pharmacol. 2021;12:731798.

. Atezolizumab and pembrolizumab adverse event profiles



Adverse events of special interest include:^{3,4}

Pneumonitis

Colitis

- Hepatitis
- Nephritis
- Hyperthyroidism
- Hypothyroidism

AE, adverse event; ALT, alanine transaminase; AST, aspartate aminotransferase. 1. Balar AV, et al. *Lancet*. 2017;389:67–76; 2. Balar AV, et al. *Lancet Oncol*. 2017;18:1483–92; 3. EMA. Atezolizumab SmPC. Available at: www.ema.europa.eu/en (accessed 10 May 2023); 4. EMA. Pembrolizumab SmPC. Available at: www.ema.europa.eu/en (accessed 10 May 2023).



Avelumab and nivolumab adverse event profiles



Adverse events of special interest include:³

- Pneumonitis
- Colitis
- Hepatic complications
- Hypothyroidism

*Nivolumab is not included in current ESMO guidelines but is suggested as an alternative preferred regimen for second-line therapy in the NCCN guidelines.⁴ AE, adverse event; ESMO, European Society for Medical Oncology; NCCN, National Comprehensive Cancer Network; UTI, urinary tract infection.
1. Powles T, et al. *N Engl J Med*. 2020;383:1218–30; 2. Sharma P, et al. *Lancet Oncol*. 2017;18:312–22; 3. Wang Y, et al. *JAMA Oncol*. 2019;5:1008–19;
4. NCCN. Bladder Cancer V2.2023. Available at: www.nccn.org/professionals/physician_gls/pdf/bladder.pdf (accessed 10 May 2023).

