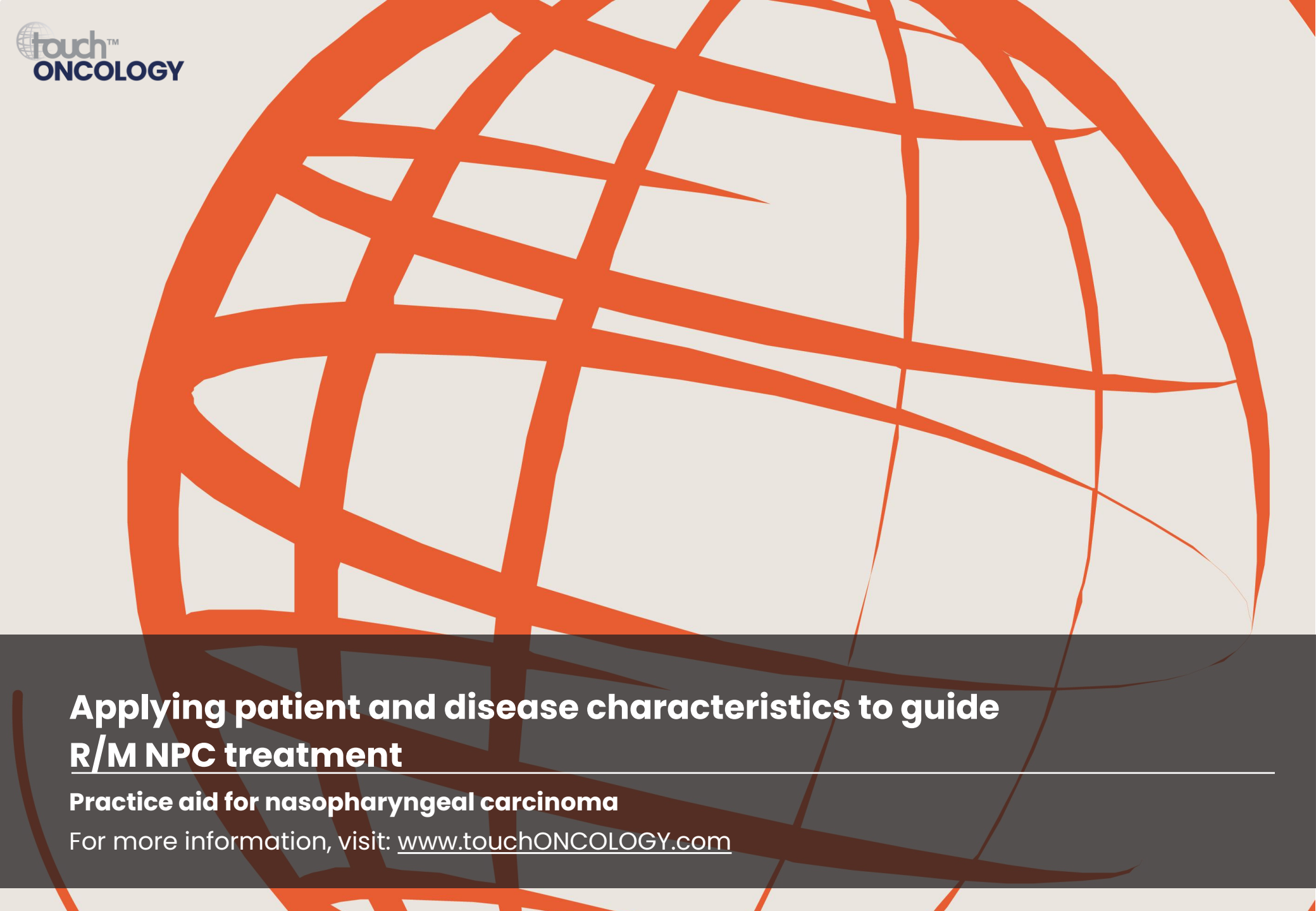


A large, stylized orange grid pattern, resembling a globe's latitude and longitude lines, covers the entire background of the slide.

Applying patient and disease characteristics to guide R/M NPC treatment

Practice aid for nasopharyngeal carcinoma

For more information, visit: www.touchONCOLOGY.com

NCCN guideline recommendations

First-line treatment for recurrent, unresectable, oligometastatic or metastatic disease (with no surgery or radiotherapy option)¹

Preferred regimen

Cisplatin/gemcitabine + toripalimab (category 1)

Other recommended regimens

Combination regimens

- Cisplatin/gemcitabine (category 1)
- Cisplatin/gemcitabine + other PD-L1 inhibitor* (category 2A)
- Cisplatin/5-FU (category 2A)
- Cisplatin or carboplatin/docetaxel or paclitaxel (category 2A)
- Carboplatin/cetuximab (category 2A)
- Gemcitabine/carboplatin (category 2A)
- Cisplatin or carboplatin/gemcitabine + penpulimab (non-keratinizing disease [category 2B])
- Cisplatin/gemcitabine + tislelizumab (category 2B)

Single-agent regimens (all category 2A)

- Cisplatin
- Carboplatin
- Paclitaxel
- Docetaxel
- 5-FU
- Methotrexate
- Gemcitabine
- Capecitabine

Absolute contraindications to cisplatin^{2,3}

- Low performance status (ECOG PS score ≥ 3)
- Renal dysfunction (CCR < 50 mL/min)
- Otologic disorders (pre-existing hearing loss or tinnitus grade ≥ 2)
- Neuropathy (grade ≥ 2)
- Known hypersensitivity to platinum-based therapy
- Pregnancy and lactation
- HIV/AIDS (CD4 count $< 200/\mu\text{L}$)

Expert perspective⁴



Carboplatin can generally be substituted for cisplatin if the patient is not eligible for cisplatin.

*E.g. pembrolizumab or nivolumab.

NCCN guideline recommendations

Subsequent-line options for recurrent, unresectable, oligometastatic or metastatic disease
(with no surgery or radiotherapy option)¹

Preferred regimen

Toripalimab
(disease progression on/after PtChT [Category 2A])

Other recommended regimens

First-line regimens (if not previously used)

Combination regimens

- Cisplatin/gemcitabine (category 1)
- Cisplatin/gemcitabine + toripalimab (category 1)
- Cisplatin/gemcitabine + other PD-L1 inhibitor* (category 2A)
- Cisplatin or carboplatin/docetaxel or paclitaxel (category 2A)
- Cisplatin or carboplatin/gemcitabine + penpulimab (non-keratinizing [category 2B])
- Cisplatin/gemcitabine + tislelizumab (category 2B)
- Cisplatin/5-FU (category 2A)
- Carboplatin/cetuximab (category 2A)
- Gemcitabine/carboplatin (category 2A)

Single-agent regimens (all category 2A)

- Cisplatin
- Carboplatin
- Paclitaxel
- Docetaxel
- 5-FU
- Methotrexate
- Gemcitabine
- Capecitabine

Immunotherapy (all category 2B)

- Nivolumab (R/M non-keratinizing)
- Pembrolizumab (PD-L1+, R/M)
- Penpulimab (non-keratinizing, progression on/after PtChT + ≥1 other prior therapy)
- Tislelizumab

Useful in certain circumstances

- Pembrolizumab for TMB-H tumours (≥10 mutations/Mb [category 2A])

*E.g. pembrolizumab or nivolumab.

Considerations for treatment selection

EBV/Keratinizing disease status

Treatments recommended for EBV-positive (non-keratinizing) disease only:¹

- Cisplatin or carboplatin/gemcitabine + penpulimab
- Nivolumab monotherapy
- Penpulimab monotherapy



Expert perspective:⁴

“Other recommended drugs generally have indications that include both EBV-positive (non-keratinizing) and EBV-negative (keratinizing), or do not require EBV characterization. While the number of EBV-negative patients in the studies was small, EBV status is not a factor that will alter my first-line treatment approach.”

PD-L1 status

Treatments recommended for PD-L1+ disease only:¹

- Pembrolizumab monotherapy

If considering pembrolizumab, recommend TMB and CPS testing in line with NCCN guidance.¹



Expert perspective:⁴

“[PD-L1 testing] is not something that has a similar robustness as it has in non-nasopharyngeal tumours.”

Patients with autoimmune diseases

- Study of patients with cancer receiving ICIs (N=477) found that de novo irAEs were more frequent than flares of pre-existing autoimmune disease⁵
- Most irAEs in patients with pre-existing autoimmune diseases were mild and manageable⁵
- Collaboration between autoimmune disease specialists and oncologists should occur when patients with pre-existing autoimmune diseases are receiving ICIs⁶



Expert perspective:⁴

“Get their autoimmune disease team involved because they’re going to need to be there... The benefits of an ICI in a fairly stable patient with autoimmune disease not requiring a lot of immunosuppressive therapy would far outweigh the risks.”

Abbreviations and references

Abbreviations

5-FU, 5-fluorouracil; CCR, creatinine clearance; CPS, combined positive score; EBV, Epstein-Barr virus; ECOG PS, Eastern Cooperative Oncology Group Performance Status; ICI, immune checkpoint inhibitor; irAE, immune-related adverse event; NCCN, National Comprehensive Cancer Network; NGS, next-generation sequencing; NPC, nasopharyngeal carcinoma; PD-L1, programmed death ligand 1; PtChT, platinum-based chemotherapy; R/M recurrent/metastatic; TMB, tumour mutation burden; TMB-H, TMB – high.

References

1. NCCN Clinical Practice Guidelines in Oncology. Head and Neck Cancers Version 5.2025 — August 12, 2025. Available at: [NCCN.org](https://www.nccn.org) (accessed 19 August 2025).
2. Szturz P, et al. *Front Oncol*. 2019;9:464.
3. Ahn M-J, et al. *Oral Oncol*. 2016;53:10–6 .
4. touchIME. Data on file. August 2025.
5. Sumimoto H, et al. *PLoS One*. 2024;19:e0306995.
6. Boland P, et al. *J Immunother Cancer*. 2020;8:e000356.

The guidance provided by this practice aid is not intended to directly influence patient care. Clinicians should always evaluate their patients' conditions and potential contraindications and review any relevant manufacturer product information or recommendations of other authorities prior to consideration of procedures, medications or other courses of diagnosis or therapy included here.

Our practice aid coverage does not constitute implied endorsement of any product(s) or use(s). touchONCOLOGY cannot guarantee the accuracy, adequacy or completeness of any information, and cannot be held responsible for any errors or omissions.