

Lunsumio and Management of Extravasation

This article responds to your request for information on Lunsumio® (mosunetuzumab) and the management of extravasation.

In brief

- Lunsumio is a monoclonal antibody.
- Monoclonal antibodies are classified as non vesicants or as irritants. Extravasation of Lunsumio is not expected to result in outcomes typical for vesicants.
- There is no specific treatment recommendation following extravasation of Lunsumio.
- In cases of extravasation, the Lunsumio infusion should be stopped and symptoms of extravasation should be treated as per your institution's protocol for management of extravasation.

Vesicants, irritants, and non-vesicants

Chemotherapy drugs may be classified based on their potential to cause tissue damage if extravasation occurs:¹

- Vesicants — These drugs may cause pain, inflammation, blistering, tissue death, and necrosis of local skin and underlying structures.
- Irritants — These drugs may cause pain, inflammation, or irritation but rarely tissue breakdown.
- Non-vesicants — These drugs are inert or neutral compounds that may cause pain but not inflammation or damage.

Any chemotherapy drugs have the potential to cause significant symptoms and tissue damage if the volume or concentration of the drug that extravasated is high.¹

Potential for Lunsumio to cause tissue damage after extravasation

Lunsumio is a monoclonal antibody.² Monoclonal antibodies are either classified as non vesicants^{1,3} or as irritants due to the possibility of local allergic reactions rather than direct cellular toxicity.⁴ Extravasation of Lunsumio is not expected to result in outcomes typical for vesicants.

Recommendations for the management of extravasation of Lunsumio

There is no specific treatment recommendation following extravasation of Lunsumio.⁵ Please refer to your institution's protocol for management of extravasation.

The study protocol for a Lunsumio pivotal clinical trial did not include guidance for management of extravasation.⁶

Clinical guidelines

Resources for the management of extravasation with chemotherapeutic agents have been published.^{1,3,7} Examples include but are not limited to clinical practice guidelines published by the European Society for Medical Oncology (ESMO)¹ and the National Health Service (NHS).⁷

The ESMO guidelines recommend that in cases of extravasation, the infusion should be stopped and symptoms of extravasation should be treated.¹ Please refer to the full guidelines for further information.

Extravasation experience from case reports

Currently there are no case reports published for extravasation of Lunsumio.

References

1. Pérez FJA, García FL, Cervantes A, et al. Management of chemotherapy extravasation: ESMO-EONS Clinical Practice Guidelines. *Ann Oncol* 2012;23 Suppl 7:vii167-73. <https://www.ncbi.nlm.nih.gov/pubmed/22997449>
2. Budde LE, Sehn LH, Matasar M, et al. Safety and efficacy of mosunetuzumab, a bispecific antibody, in patients with relapsed or refractory follicular lymphoma: a single-arm, multicentre, phase 2 study. *Lancet Oncol* 2022;23:1055-1065. <https://www.ncbi.nlm.nih.gov/pubmed/35803286>
3. Kreidieh FY, Moukadem HA, El SNS. Overview, prevention and management of chemotherapy extravasation. *World J Clin Oncol* 2016;7:87-97. <https://www.ncbi.nlm.nih.gov/pubmed/26862492>
4. Pluschnig U, Haslik W, Bartsch R, et al. Extravasation emergencies: state-of-the-art management and progress in clinical research. *Memo* 2016;9:226-230. <https://www.ncbi.nlm.nih.gov/pubmed/28058065>
5. Roche Internal Regulatory Document (Accessed on 31 July 2023).
6. Protocol for Safety and Efficacy of Mosunetuzumab, A Bispecific Antibody, in Patients with Relapsed or Refractory Follicular Lymphoma: A Single-arm, Multicentre, Phase 2 Study. Available at <https://ars.els-cdn.com/content/image/1-s2.0-S1470204522003357-mmc1.pdf>. Accessed on July 30, 2023.
7. Network Guidelines for the Management of Extravasation of a Systemic Anti-Cancer Therapy Including Cytotoxic Agents. Available at <https://www.england.nhs.uk/midlands/wp-content/uploads/sites/46/2019/05/management-extravasation-of-a-systemic-anti-cancer-therapy-including-cytotoxic-agents.pdf>. Accessed on May 16, 2024.