

Drug Shortage Management in Community Oncology: Ensuring Access to Vital Medications

Introduction

Shortages of backbone chemotherapy drugs such as carboplatin, cisplatin, and paclitaxel make a profound impact on the healthcare system as they treat several types of cancer, often with curative intent.^{1,2} Scarcity of chemotherapy affects quality of patient care as providers find themselves delaying treatment, reducing doses, or choosing alternative regimens unaffected by shortages, potentially sacrificing efficacy.

Community oncology practices can be disproportionately affected as larger health systems often have more persuasion with distributors.³ Thus, it is crucial that community practices have plans in place for shortage management and communication. This report summarizes the management strategies used by AON in the setting of recent chemotherapy shortages.

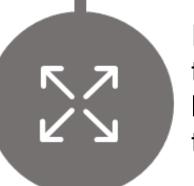
Inventory Management and Clinical Optimization

Inventory Snapshot



Reports created for each clinic with inventory and upcoming orders to determine when inventory will run out. Updates generated as needed.

Dose Rounding



Rounded doses which could be rounded to the nearest vial size within 10% of weightbased dose for patients without alternative treatment options.

Alternative Sources

Collaboration

Drug Shortage Committee

Quick action by the drug shortage committee at AON is vital to the success of the network amid a shortage. The committee brings together all key stakeholders in shortage management to bring an efficient, organized approach and consistent communication across the network (see figure 1).

Figure 1: Drug Shortage Committee stakeholders



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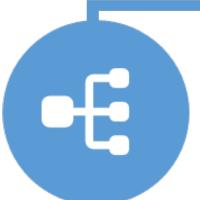
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Alternative Schedule/Sequencing

Drug on shortage delayed if clinically appropriate (example: paclitaxel given before AC for breast cancer treatment during doxorubicin shortage).

Alternative Drug/Treatment Regimen



Pharmacists created evidence-based guidance documents for taxane and platinum alternatives with dosing recommendations (see table 1).

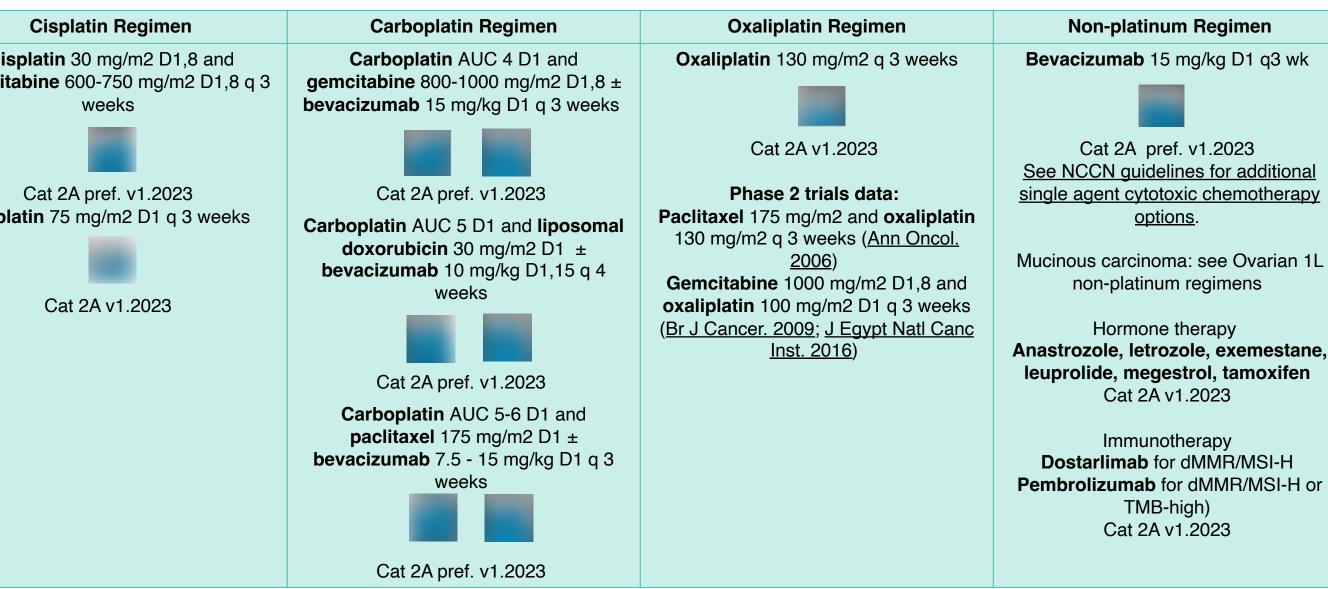
Procurement team pursued alternative wholesaler or manufacturer sources of drugs

EMR Optimization

Order sets created for easy treatment plan modification with alternative drugs, an activity for patient education, and consent.

Table 1: Sample disease state from alternative therapies guidance for platinum shortage with NCCN evidence blocks

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Communication

Clinic Communication

- Urgent messages sent to all providers, pharmacy staff, clinical nurse managers, office managers, financial managers, revenue cycle, and nurses with critical updates from the drug shortage committee.
- Shortage status provided biweekly through Pharmacy and Therapeutics committee newsletter, and weekly provider newsletter.

Patient Education

Created a standard patient letter explaining various shortage causes, potential impact on plan of care, and if applicable, option for use of FDAapproved imported chemotherapy drugs from overseas manufacturers.

Payor Communication

• Provided financial teams with national shortage communications for payor appeals.

Conclusion

Pharmacists play a pivotal role in mitigating the impact of chemotherapy shortages by ensuring patients have access to vital medications and optimizing regimens.⁴ Their expertise in drug substitution, dosage adjustments, and patient support is essential for maintaining the continuity and effectiveness of cancer treatments during these challenging times.

References

- 1. Severity and impact of current drug shortages: June/July 2023. ASHP. July 14, 2023. Accessed August 22, 2023. Available from: https://www.ashp.org/-/media/assets/drug-shortages/docs/ASHP-2023-Drug Shortages-Survey-Report.pdf.
- 2. Food and Drug Administration. Drug shortages: root causes and potential solutions (October 2019). Available from: https://www.fda.gov/media/131130/download.
- 3. Spell L, AON Procurement Manager, e-mail communication, October 2023.
- 4. Ammar MA, Tran LJ, McGill B, et al. Pharmacists leadership in a medication shortage response: Illustrative examples from a health system response to the COVID-19 crisis. J Am Coll Clin Pharm. 2021;4(9):1134-1143.

Figure 2: American Oncology Network Locations

