



EFFICACY OF SINGLE LOW-DOSE DEXAMETHASONE WITH NEPA FOR THE 168H PREVENTION OF HIGHLY OR MODERATELY EMETOGENIC (HIGH-RISK PATIENTS) CHEMOTHERAPY INDUCED NAUSEA //OMITING

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Introduction

Dexamethasone's multi-day use in chemotherapy cycles can cause significant side effects.

We were committed to reducing the exposure to corticosteroids in the management of chemotherapy-induced nausea and vomiting (CINV), ensuring therapeutic efficacy was preserved.

Methods

This single-center, retrospective study enrolled 100 solid tumor patients undergoing moderately emetogenic chemotherapy (MEC, high-risk patients) or highly emetogenic chemotherapy (HEC).

Patients were administered a single low-dose dexamethasone (DEX, 8 mg) and NEPA prior to each chemotherapy cycle.

The primary efficacy endpoint was the complete response (CR: no emesis, no rescue medication) within 0-168 hours post-chemotherapy initiation in cycle 1.

The main secondary endpoints were CR during the acute (0-24 hours), delayed (24-120 hours), and long-delayed (120-168 hours) phases.

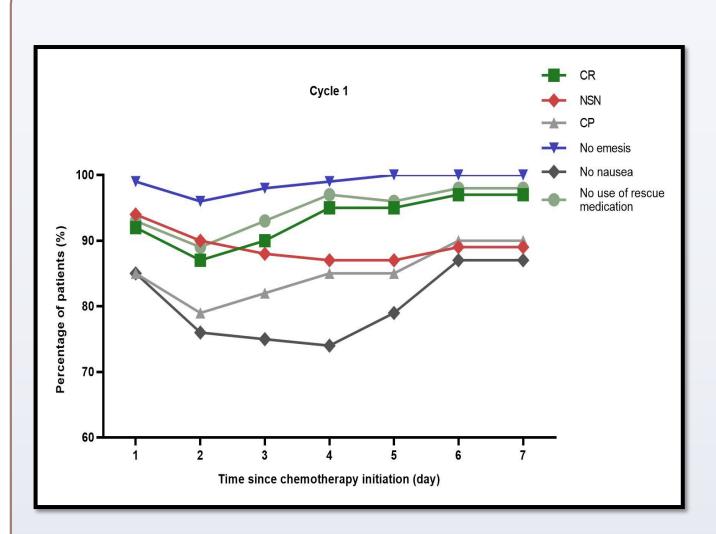


Figure 1. Line graph showing the proportion of patients with different CINV-related outcomes of cycle 1 up to 168 hours post-chemotherapy.

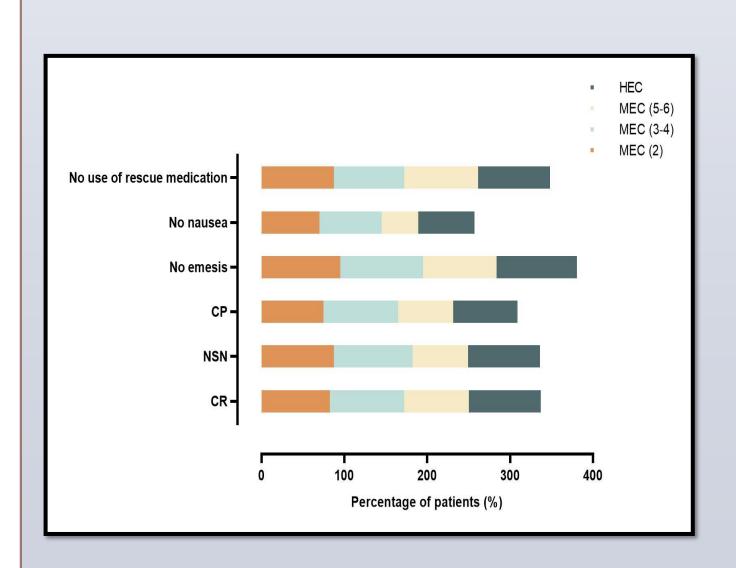


Figure 3. Efficacy assessments of CINV-related outcomes.`

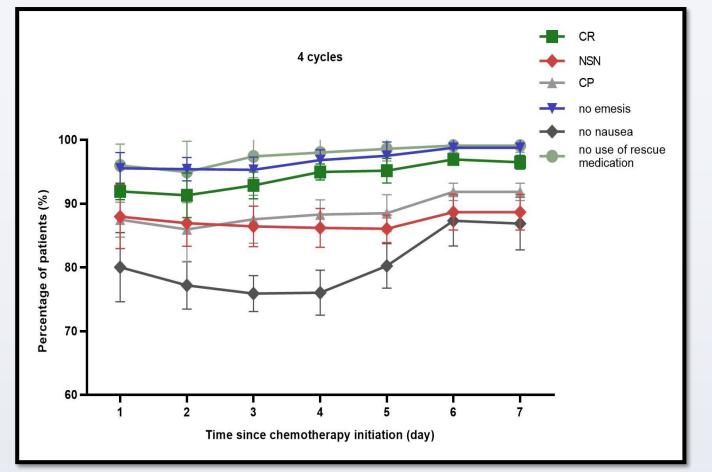


Figure 2. Line graph offering a comparative analysis of patient outcomes related to CINV, tracking changes over the course of four chemotherapy cycles.

Results

From August 2023 to April 2024, 100 patients completed 230 chemotherapy cycles (67.4% MEC, 32.6% HEC). CR rates increased from 85% in cycle 1 to 93.1% in cycle 4, with a slight decrease in CR during delayed versus acute phases. Patients with fewer risk factors had better outcomes, while those with 3-6 high-risk factors in MEC had poorer outcomes compared to HEC. Grade 1 or 2 AEs occurred in 78% of patients, with constipation and hyperglycemia being the most common. ECOG performance status and diabetes significantly associated with CR, achieving a sensitivity of 84.7% and specificity of 60.0% in predicting overall CR.

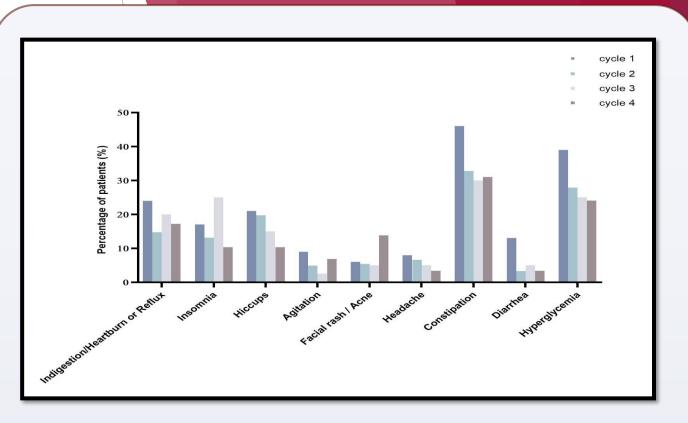


Figure 4. Treatment related adverse events

Discussion

Our study demonstrates that a single low-dose DEX (8 mg) combined with NEPA is effective and safe for the prevention of CINV in high-risk patients undergoing multiple cycles of MEC or HEC, offering an alternative to standard multi-day DEX regimens in CINV management.

References

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- 2. Aapro M, Rugo H, Rossi G, et al. A randomized phase III study evaluating the efficacy and safety of NEPA, a fixed-dose combination of netupitant and palonosetron, for prevention of chemotherapy-induced nausea and vomiting following moderately emetogenic chemotherapy. *Ann Oncol.* 2014;25(7):1328-1333. doi:10.1093/annonc/mdu101