

PREVENTION OF CHEMOTHERAPY INDUCED NAUSEA AND VOMITING (CINV) FROM AC-CHEMOTHERAPY IN PREGNANT BREAST CANCER PATIENTS

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Introduction

- Anthracycline-cyclophosphamide (AC) chemotherapy (CT) is used for the treatment of gestational breast cancer (BC) during the second and third trimester
- Since AC CT is highly emetogenic, total control of CINV in pregnancy is a clinical challenge
- Ondansetron, metoclopramide and methylprednisolone are considered safe while NK1 receptor antagonists (NK1 RAs) and olanzapine should be avoided

Methods

- MASCC Antiemetic Tool (MAT) was used to evaluate nausea (0-10/10) and vomiting 0-120h after AC CT
- Patient's risk factors such as kinetosis, emesis during previous pregnancy, anxiety and alcohol abuse were recorded
- All patients received ondansetron 8mg iv and methylprednisolone
 40mg iv on day 1 as the prevention of acute CINV
- No antiemetic prophylaxis was used in the delayed period
- Metoclopramide 10 mg was offered in case of a breakthrough emesis

Results

CINV from AC CT (doxorubicin 60mg/m², cyclophosphamide 600mg/m²) was evaluated for 7 BC patients during 1st, for 5 in the 2nd and for 2 in the 3rd cycle of CT

Results are summarized in Table 1.

7	_	_
	5	2
7/7	5/5	2/2
7/7	5/5	2/2
7/7	5/5	2/2
7/7	4/5	2/2
6/7	3/5	1/2
6/7	3/5	1/2
	7/7 7/7 7/7 6/7	7/7 5/5 7/7 5/5 7/7 4/5 6/7 3/5

- Emesis during previous pregnancy was recorded in 3 out of 7 patients, 1 had kinetosis, 2 reported mild anxiety (≤4/10) on Edmonton Symptom Assessment System and none abused alcohol
- Complete response (no emesis, no rescue) was reached in all patients in the acute, delayed and overall period
- Three patients had mild delayed nausea ≤ 4/10
- Post-partum follow-up showed no newborn congenital defects

Conclusions

- CINV after AC CT was well controlled in pregnant BC patients despite the omission of NK1RAs and olanzapine
- The presence of nausea in the delayed period might be an issue
- Use of ondansetron and methylprednisolone showed no side effects

References

Loibl S, Azim HA Jr, Bachelot T et al. ESMO Expert Consensus Statements on the management of breast cancer during pregnancy (PrBC). Ann Oncol. 2023 Oct;34(10):849-866. doi: 10.1016/j.annonc.2023.08.001. Epub 2023 Aug 10. PMID: 37572987.