

DANGER-emesis

SAFETY AND ANTIEMETIC EFFICACY OF WEEKLY ADMINISTRATION OF NETUPITANT/PALONOSETRON PLUS DEXAMETHASONE DURING FIVE WEEKS OF CONCOMITANT CHEMO-RADIATION

Abstract #ANTIE-002 – MASCC/AFSOS/ISOO Annual Meeting 2024

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Introduction

- NEPA (netupitant 300 mg/palonosetron 0.5 mg) has not been evaluated for safety and efficacy as weekly antiemetic prophylaxis during concomitant radiotherapy and weekly cisplatin.
- Weekly NEPA per orally (p.o.) administration would reduce tablet intake compared to a 3-day aprepitant (p.o.) regimen.
- Safety has to be ruled out for potential accumulation and toxicity due to netupitant's longer half-life (~88 h) compared to aprepitant (9-13 h).

Objectives

- Co-primary: Safety of weekly NEPA and dexamethasone (DEX).
- Co-primary: Proportion of subjects with sustained no emesis.
- Efficacy outcomes compared with a comparable cohort* using weekly fosaprepitant, palonosetron and dexamethasone:
 - Complete response day 1-5 and 1-35
 - No vomiting day 1-5 and 1-35
 - No significant nausea day 1-5 and day 1-35
 - No Nausea day 1-5 and day 1-35
 - Time to first emetic episode.

* GAND emesis, PMID: 26952945

Methods

- Single arm, phase II study (NCT03668639)



Patients with cervical cancer



Fractionated radiotherapy + concomitant weekly cisplatin 40 mg/m² for five weeks



Weekly NEPA p.o. (300 mg/0.5 mg) and DEX p.o. day 1-4 (day 1: 12 mg, day 2-3: 8 mg, day 4: 4 mg)



Weekly physician assessed AE registration and daily Patient Diary reporting nausea, vomiting and use of rescue medication

Results

- Of 154 patients screened for inclusion, 73 patients were enrolled in the study, and 37 patients completed all five cycles of study treatment.

Safety of weekly NEPA and DEX

	Baseline n = 73	Cycle 1 n = 73	Cycle 2 n = 66	Cycle 3 n = 59	Cycle 4 n = 52	Cycle 5 n = 37	Total n = 73
≥ 1 AE	55 (75%)	72 (99%)	65 (98%)	59 (100%)	48 (92%)	32 (86%)	73 (100%)
≥ 1 AE grade 3	4 (5%)	3 (4%)	7 (11%)	7 (12%)	8 (15%)	9 (24%)	24 (33%)
≥ 1 AE grade 4	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (3%)	1 (1%)
≥ 1 SAE	1 (1%)	0 (0%)	3 (5%)	1 (2%)	1 (2%)	2 (5%)	5 (7%)
≥ 1 TRAE	0 (0%)	61 (84%)	54 (82%)	51 (86%)	40 (77%)	24 (65%)	69 (95%)
≥ 1 TRAE grade 3	0 (0%)	1 (1%)	5 (8%)	4 (7%)	3 (6%)	2 (5%)	7 (10%)
≥ 1 TRAE grade 4	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
≥ 1 TRSAE	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

Table 1. Overview of Adverse Events (AEs), Serious Adverse Events (SAEs), Treatment-related AEs (TRAEs) and Treatment-related Serious Adverse Events (TRSAEs).

Definitions of treatment-related AEs (TRAEs)

Relation to NEPA deemed as: *definitely related, probably related, possibly related*, or marked as missing.

Two TRAEs led to discontinuation of the study:

- Fatigue grade 2; urticaria grade 2

Seven patients experienced TRAEs grade 3:

- 1 abdominal distension; 2 fatigue; 1 flushing; 1 increased liver transaminase; 2 insomnia

Conclusion

- NEPA plus DEX was safe and well-tolerated during weekly administration.
- NEPA plus DEX was highly effective as antiemetic prophylaxis.
- NEPA should be recommended as an option for weekly administration during concomitant radiotherapy and weekly cisplatin.

Antiemetic efficacy of weekly NEPA and DEX

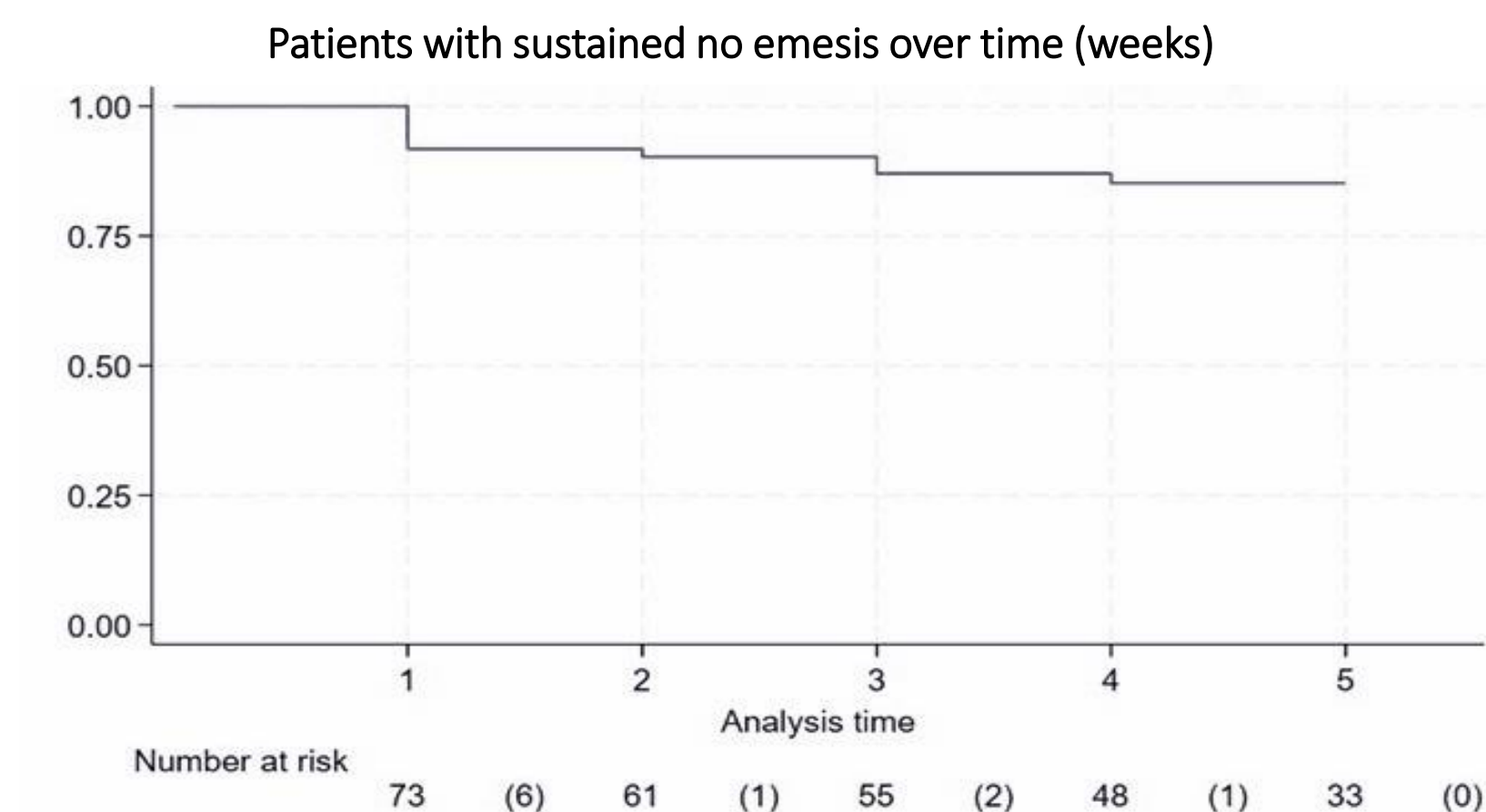


Figure 1. Kaplan-Meier survival plot illustrating the incidence of patients with sustained no emesis over time (weeks).

	DANGER-emesis n = 73	GAND-emesis, fosaprepitant cohort n = 118	P value
Complete response			
Day 1-5	56 (77%)	85 (72%)	0.517
Day 1-35	38 (52%)	28 (24%)	0.000
No vomiting			
Day 1-5	68 (93%)	107 (91%)	0.795
Day 1-35	63 (86%)	91 (77%)	0.144
No significant nausea			
Day 1-5	63 (86%)	95 (81%)	0.449
Day 1-35	45 (62%)	31 (26%)	0.000
No nausea			
Day 1-5	36 (49%)	55 (47%)	0.887
Day 1-35	13 (18%)	18 (15%)	0.704
Mean time to first emetic episode (days)	9.00 (SD 9.30)	11.25 (SD 9.00)	0.099

Table 2. Efficacy outcomes compared with the fosaprepitant cohort from the GAND emesis study using the ITT population.

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