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POSTER



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INTRODUCTION

- Diabetes mellitus is an independent risk factor for inadequate bowel preparation for colonoscopy¹⁻³
- Diabetes aberrantly affects gastrointestinal (GI) motility and gastric emptying; however, the mechanism for GI dysfunction in diabetes remains to be elucidated, but is likely multifactorial⁴⁻⁶
- GI dysfunction can affect the incidence of adverse events (AEs) with bowel preparation administration in patient with diabetes⁷
- NER1006 (Plenvu[®], Norgine Ltd, Tir-Y-Berth Hengoed, United Kingdom) is a low-volume 1 L polyethylene glycol (PEG)-based bowel preparation indicated in the United States in 2018 for colon cleansing in preparation for colonoscopy in adults⁸
- Two randomized, phase 3 studies of NER1006 evaluating the US Food and Drug Administration-approved dosing regimens (2-day evening/morning [PM/AM] split dosing or 1-day morning [AM/AM] of colonoscopy split dosing) have demonstrated its efficacy and tolerability in adults^{9,10}

OBJECTIVE

 To evaluate the safety profile of 1 L NER1006 bowel preparation in adults with diabetes compared with those without diabetes

METHODS

- A pooled post hoc analysis was conducted of two phase 3, randomized, controlled, multicenter studies of adults undergoing screening, surveillance, or diagnostic colonoscopy (NOCT/MORA)^{9,10}
- The current analysis included patients who received NER1006 as a 2-day рм/ам split-dose bowel preparation regimen (Figure)^{9,10}

Figure. NER1006 Bowel Preparation Dosing Regimen*9,10

NOCT	NOCT/MORA	
Day Before	Day of	
Colonoscopy	Colonoscopy	
NER1006 (рм/ам)	NER1006 (pm/am)	
Dose 1: 6:00 рм	Dose 2: 6:00 am	

*A light breakfast and light lunch was permitted. NER1006 AM/AM split-dosing arm in MORA study and comparator arms of NOCT/MORA (oral sulfate solution/2 L polyethylene glycol plus ascorbate) were not included in the current analyses.

- Diabetes (type 1 or type 2) was determined as part of medical history at screening
- Safety assessments included treatment-emergent AEs and clinical laboratory test results through 7 \pm 1 days after colonoscopy, and analysis included all patients randomly assigned for whom it could not be ruled out they received NER1006 at least once (per patient diary)

A Pooled Safety Analysis of the 1 L Polyethylene Glycol-Based Bowel Preparation NER1006 in Adults With Versus Without Diabetes Mellitus: a Pooled Analyses of 2 Randomized, Phase 3 Studies

RESULTS

- A total of 524 patients were included in the safe - Almost half of patients were male (46.4%), the 82.1% underwent screening or surveillance col
- 8.0% of patients had diabetes

Table 1. Demographic and Baseline Charac

Parameter

Age

Mean, y (SD) Range, y

Sex, male, n (%)

Race, n (%) White Black Other

Reason for colonoscopy, n (%)

Screening Surveillance Diagnostic

Diabetes, n (%)

Yes

No

BMI, mean (SD), kg/m²

BMI = body mass index; SD = standard deviation.

- The frequency of AEs was generally comparable between patients with diabetes and those without diabetes (Table 2)
- No patients discontinued from the study due to an AE in either group
- No AEs were reported by >1 patient with diabetes
- considered by the investigator to be related to NER1006 - 2 patients without diabetes experienced serious AEs of alcohol abuse and procedural

fety analysis (Table 1)	Table 2. Summary of Adverse Events in Patients Treated With NER1006		
The majority were \leq 65 years of age (77.5%), and colonoscopy	Parameter	Patients With Diabetes (n=42)	Patients Without Diabetes (n=482)
acteristics	Any AEs	9 (21.4)	109 (22.6)
Patients Treated With NER1006 (n=524)	Any drug-related AEs AEs leading to discontinuation	2 (4.8) 0	67 (13.9) 0
	Serious AEs	1 (2.4)*	2 (0.4) ⁺
57.0 (11.1)	Drug related	0	0
18-86	Deaths	0	0
	Most common AEs [‡]		
243 (46.4)	Nausea	1 (2.4)	32 (6.6)
	Vomiting	0	27 (5.6)
477 (91.0)	Dehydration	1 (2.4)	8 (1.7)
39 (7.4)	Headache	1 (2.4)	8 (1.7)
8 (1.5)	Abdominal tenderness	1 (2.4)	6 (1.2)
	Other AEs of interest		
287 (54.8)	Decreased GFR	1 (2.4)	4 (0.8)
143 (27.3)	Hypoglycemia	0	0
94 (17.9)	Hyperglycemia	0	0
	Thirst	0	2 (0.4)
42 (8.0) 482 (92.0)	*1 event of ileus. [†] 1 event of alcohol abuse and 1 of procedural intestinal perforation. [‡] AEs reported in \geq 1% of patients in either group, and ordered by hig AE = adverse event; GFR = glomerular filtration rate.		
28.4 (5.3)	CONCLUSION This analysis supports t	he cafety of 1 L DEC baco	NER1006 as a bowol

et al. *Endoscopy*. 2019;51(1):60-72.

- The most common AEs in patients without diabetes were nausea (6.6%) and vomiting (5.6%) - 1 patient in the diabetes group experienced a serious AE of moderate ileus, which was not

intestinal perforation; both were considered by the investigator to be unrelated to NER1006

This analysis supports the safety of L PEG-based NERTUUS as a power preparation in adults with diabetes undergoing colonoscopy

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