NUMBER P0408

POSTER



Brooks D. Cash, MD¹; Philip S. Schoenfeld, MD²; Sravanthi Parasa, MD³; Christopher Allen, MS⁴; Prateek Sharma, MD⁵ ¹University of Texas Health Science Center, Houston, TX; ²John D. Dingell VA Medical Group, Seattle, WA; ⁴Salix Pharmaceuticals, Bridgewater, NJ; ⁵University of Kansas School of Medicine and VAMC, Kansas City, KS

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/an		
Dose 1: 6:00 рм	Dose 2: 6:00 an		

*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
- 1 patient in the diabetes group experienced a serious AE of moderate ileus, which was not considered by the investigator to be related to NER1006 - 2 patients without diabetes experienced serious AEs of alcohol abuse and procedural

ty analysis (Table 1)	Table 2. Summary of Adverse Events in Patients Treated With NER1006			
majority were \leq 65 years of age (77.5%), and slonoscopy	Parameter	Patients With Diabetes (n=42)	Patients Without Diabetes (n=482)	
cteristics	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	
57.0 (11.1) 18–86	Serious AEs Drug related Deaths	1 (2.4)* 0 0	2 (0.4) ⁺ 0 0	
243 (46.4)	Most common AEs [‡] Nausea	1 (2.4)	32 (6.6)	
477 (91.0) 39 (7.4) 8 (1.5)	Vomiting Dehydration Headache Abdominal tenderness	0 1 (2.4) 1 (2.4) 1 (2.4)	27 (5.6) 8 (1.7) 8 (1.7) 6 (1.2)	
287 (54.8) 143 (27.3) 94 (17.9)	Other AEs of interest Decreased GFR Hypoglycemia Hyperglycemia	1 (2.4) 0 0	4 (0.8) 0 0	
42 (8.0) 482 (92.0)	Thirst02 (0.4)*1 event of ileus.*1 event of alcohol abuse and 1 of procedural intestinal perforation.*AEs reported in ≥1% of patients in either group, and ordered by highest frequency in the group without diabetes.AE = adverse event; GFR = glomerular filtration rate.			
28.4 (5.3)	CONCLUSION			

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

- The most common AEs in patients without diabetes were nausea (6.6%) and vomiting (5.6%)

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

REFERENCES: 1. Dik VK, et al. Gastrointest Endosc. 2015;81(3):665-672. 2. Fayad NF, et al. Clin Gastroenterol Hepatol. 2013;11(11):1478-1485. 3. Mahmood S, et al. Eur J Gastroenterol Hepatol. 2018;30(8):819-826. 4. Piper MS, et al. Curr Treat Options Gastroenterol. 2017;15(4):460-474. 5. Parkman HP, et al. Clin Gastroenterol Hepatol. 2011;9:1056-1064. 6. Ihana-Sugiyama N, et al. World J Gastroenterol. 2016;22(11):3252-3260. 7. Alvarez-Gonzalez MA, et al. Endoscopy. 2016;48:1003-1009. 8. Plenvu[®] (polyethylene glycol 3350, sodium ascorbate, sodium sulfate, ascorbic acid, sodium chloride and potassium chloride for oral solution) [package insert]. Amsterdam, The Netherlands: Norgine BV; 2019. 9. DeMicco MP, et al. Gastrointest Endosc. 2018;87(3):677-687. 10. Bisschops R,

ACKNOWLEDGMENTS: The phase 3 studies were supported by Norgine BV. The current post hoc analyses were supported by Salix Pharmaceuticals. Medical writing and technical editorial assistance were provided under direction of the authors by Mary Beth Moncrief, PhD, and Sophie Bolick, PhD, Synchrony Medical Communications, LLC, West Chester, PA. Funding for this assistance was provided by Salix Pharmaceuticals.

DISCLOSURES: BDC reports having served as a speaker, consultant, and advisory board member for Salix Pharmaceuticals. PSS reports serving as a consultant, advisory board member, and speaker for AbbVie Inc., Ironwood Pharmaceuticals, Inc., and Salix Pharmaceuticals. SP reports having no conflicts to disclose. CA is an employee of Salix Pharmaceuticals. PS reports being a consultant for Boston Scientific and Olympus Inc.

PLENVU[®] is a registered trademark of the Norgine group of companies used under license.

Research funded by:

