Phathom. PHARMACEUTICALS

Real-world treatment patterns of prior lines of proton pump inhibitor (PPI) therapy in vonoprazan-treated patients in the United States diagnosed with non-erosive or erosive GERD

Eric D. Shah, MD¹, Iresha Abeynayake, MPH², Murali Gopal, MD², Colin W. Howden, MD³

¹ University of Michigan, Ann Arbor, Michigan, ² Phathom Pharmaceuticals, Buffalo Grove, Illinois, ³ University of Tennessee College of Medicine, Memphis, Tennessee

Background

- PPIs are frequently used in the treatment of non-erosive GERD and erosive esophagitis. However, 20-40% of patients may not respond adequately.¹
- The potassium-competitive acid blocker (PCAB) vonoprazan, is the first-in-class and, currently, the only FDA-approved treatment of its kind for healing and maintenance of healing of erosive GERD (erosive esophagitis) and relief of heartburn in non-erosive and erosive GERD.
- PCABs provide rapid, potent, and durable acid suppression, and may have a role in patients with GERD who have an incomplete response to PPI therapy.^{2,3}

Objective

• Characterize the previous use of prescription PPI treatment patterns in patients with GERD who were subsequently treated with vonoprazan.

Methods

- Retrospective database analysis of adult patients who initiated vonoprazan in the US.
- We identified patients in IQVIA's Anonymous Patient Longitudinal Database (APLD), a US administrative claims database that receives over 4 billion prescription claims per year.
- Most longitudinal prescription information is collected weekly or monthly from pharmacies and long-term care facilities.
- For inclusion in the descriptive analysis, patients must have had:
- continuous eligibility criteria of medical and pharmacy benefits over the 12 month pre-index vonoprazan (baseline period)
- ≥1 GERD diagnosis code (K210, K2100, K2101, K219)
- continuous eligibility criteria post-index vonoprazan until the most recent data cutoff in February 2025 (follow-up period)
- Patients were classified as having non-erosive or erosive GERD. Any patient with diagnostic codes for both was included in the erosive GERD group.
- We assessed:
- previous lines of prescription PPI therapy before initiating vonoprazan
- total number of PPI prescriptions
- specific PPIs dispensed
- reasons for discontinuing PPI treatment for the 3-year observation study period (February 21, 2022, to February 21, 2025)
- A gap in PPI therapy of at least 30 days, the end of the one-year baseline period, a restart of previous PPI medication, and/or a switch to a different PPI were considered new lines of therapy.
- Persistency rates for prescription PPI therapy were based on patients who did not switch or have a gap in therapy of less than 30 days between the start of their line of therapy and the end of the observation period.



The authors thank the Atrixia team who conducted the descriptive analysis and acknowledge editorial and medical writing support provided by Medical Leverage, Emily C. Dunford, PhD, funded by Phathom Pharmaceuticals in accordance with Good Publication Practice (GPP) Guidelines.



sive GERD	Erosive GERD ^a
0,150	n=5916
8)	3555 (68.4)
0)	1987 (38.2)
9)	1185 (22.8)
	383 (7.4)
	31.6

Study limitations

- Inherent to the use of claims data, which may not accurately reflect comprehensive management of a disease, there is the possibility of misclassification bias due to miscoding
- Medication use was measured from pharmacy claims; patients may not have taken the medication as prescribed
- Use of over-the-counter PPIs is not collected in pharmacy claims

Study strengths:

- Large nationwide dataset
- Study inclusion criteria of continuous eligibility enrollment of medical and pharmacy benefits pre- and post-index vonoprazan to minimize data gaps within the study observation period

EDS consulted for Phathom. IA and MG are employees of Phathom Pharmaceuticals. CWH is a consultant for Phathom Pharmaceuticals and Sebela.

Phathom PHARMACEUTICALS