



**Comments of the American College of  
Clinical Pharmacy to the  
FDA Nonprescription Drugs Advisory  
Committee Regarding the ‘Generally  
Recognized as Safe and Effective’  
(GRASE) Status of Oral Phenylephrine as  
a Nasal Decongestant**

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The American College of Clinical Pharmacy (ACCP) appreciates the opportunity to provide the following statement FDA Nonprescription Drugs Advisory Committee Regarding the *Generally Recognized as Safe and Effective (GRASE)* status of oral phenylephrine as a nasal decongestant.

The American College of Clinical Pharmacy is a professional society representing more than 17,000 clinical pharmacy practitioners, scientists, educators, administrators, students, residents and fellows committed to excellence in clinical pharmacy. The College's mission is to improve human health. This mission relies on the foundation of clinical pharmacy – namely, the science and practice of rational medication use.

Since its passage in 1962, the Kefauver-Harris Drug Amendments to the Federal Food Drug and Cosmetic (FD&C) Act have required that both prescription and nonprescription drugs must be safe and effective for their labeled indication.<sup>1</sup> For over-the-counter (OTC) nonprescription drugs, the monograph system was established in 1972 to evaluate drugs on the market before the FD&C Act was passed.<sup>2</sup> However, ineffective nonprescription drugs remain on the market 50 years after establishing the OTC monograph system.<sup>3</sup>

Oral phenylephrine (PE), phenylpropanolamine (PPO), and pseudoephedrine (PSE) were determined to be safe and effective for nonprescription therapy of nasal congestion by a 1976 Food and Drug Administration panel (FDA).<sup>4</sup>

Although all are sympathomimetic amines, their efficacy varies. In particular, phenylephrine is subject to first-pass metabolism and therefore is not bioavailable in currently recommended doses.<sup>5</sup>

In 2005, Congress passed the Combat Methamphetamine Epidemic Act in response to growing concern that PSE was used to illegally manufacture methamphetamine that required all retail stores nationwide to keep products containing PSE “behind the counter.”<sup>6</sup> Consequently, since PE cannot be converted to methamphetamine and can be sold without restrictions, the manufacturers of oral decongestants have substituted PE for pseudoephedrine in their over-the-counter products.

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<sup>1</sup> Goodrich WW. A look into the nooks and corners of the Kefauver-Harris Drug Amendments of 1962. *Bus Law.* 1963;18:187-192

<sup>2</sup> [Over-The-Counter \(OTC\) Drug Monograph Process. United States Food and Drug Administration.](#) Current as of September 3, 2020. Accessed September 5, 2023. /

<sup>3</sup> Weinberger M, Hendeles L. Nonprescription medications for respiratory symptoms: facts and marketing fictions. *Allergy Asthma Proc.* 2018;39:169-176. doi:10.2500/aap.2018.39.4117

<sup>4</sup> Department of Health, Education, and Welfare. Food and Drug Administration. Establishment of a monograph for over-the-counter (OTC) cold, cough, allergy, bronchodilator, and anti-asthmatic products. *Fed Regist* 1976;41:38399- 400. <https://www.federalregister.gov/documents/2005/07/13/05-13708/cold-cough-allergy-bronchodilator-and-antiasthmatic-drug-products-for-over-the-counter-human-use>

<sup>5</sup> Hendeles L. Selecting a decongestant. *Pharmacotherapy.* 1993 Nov-Dec;13(6 Pt 2):129S-134S; discussion 143S-146S. PMID: 7507590

<sup>6</sup> Combat Methamphetamine Epidemic Act of 2005 (H.R.3889, Title VII). <https://www.congress.gov/bill/109th-congress/house-bill/3889>

Phenylephrine is now a major ingredient in oral OTC products marketed for treatment of upper respiratory congestion. Although it is found in 261 such products,<sup>7</sup> published peer-reviewed research has demonstrated no clinically significant decongestant effect in patients with nasal congestion from seasonal allergic rhinitis, even in doses up to 40 mg, four times the FDA-approved OTC dose.<sup>8</sup>

The Coronavirus Aid, Relief, and Economic Security (CARES) Act of 2020 included the first major overhaul to the original OTC monograph process since it was established.<sup>9</sup> These changes facilitate the review of existing nonprescription drugs to assess their safety and effectiveness.

As articulated in a 2015 citizens' petition<sup>10</sup> and demonstrated by numerous studies and analyses,<sup>11, 12,13</sup> oral phenylephrine is ineffective at the doses employed in current over-the-counter (OTC) products available in the United States. As noted, phenylephrine is the most common ingredient in oral OTC products marketed for treatment of nasal congestion and sinus symptoms. However, due to its poor bioavailability, sufficient phenylephrine concentrations never reach the patient's systemic circulation. Hence, consumers are regularly purchasing FDA-approved products that clearly don't work.

Despite evidence that oral phenylephrine is ineffective as a decongestant, the US Food and Drug Administration (FDA) has failed to remove it from the OTC nasal decongestant monograph. The OTC monograph system must assure consumers that all drugs on the market are effective. ACCP therefore calls on the FDA to remove oral OTC products containing phenylephrine from the market.

## Summary

We thank you for the opportunity to provide input on FDA Nonprescription Drugs Advisory Committee Regarding the 'Generally Recognized as Safe and Effective' (GRASE) Status of Oral Phenylephrine as a Nasal Decongestant. We hope you will act with urgency to remove oral OTC products containing phenylephrine from the market.

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<sup>7</sup> McCoul ED. Assessment of pharmacologic ingredients in common over-the-counter sinonasal medications. *Otolaryngol Head Neck Surg.* 2020;146(9):810-815. doi:10.1177/0194599820969177

<sup>8</sup> Meltzer EO, Ratner PH, McGraw T. Oral phenylephrine HCl for nasal congestion in seasonal allergic rhinitis: a randomized, open-label, placebo controlled study. *J Allergy Clin Immunol Pract.* 2015; 3:702–708

<sup>9</sup> [Over-The-Counter \(OTC\) Drug Review—OTC Monograph Reform in the Cares Act. US Food and Drug Administration.](#) Current as of November 23, 2021. Accessed September 5, 2023

<sup>10</sup> Hendeles L, Hatton RC. Citizens' Petition-2015-P-4131-0001, Requesting a Final Rule Removing Oral Phenylephrine from the Final Rule Removing Oral Phenylephrine from the Final Monograph for OTC Nasal Decongestant Products.

<sup>11</sup> Horak F, Zieglmayer P, Zieglmayer R, et al. A placebo-controlled study of the nasal decongestant effect of phenylephrine and pseudoephedrine in the Vienna challenge chamber. *Ann Allergy Asthma Immunol* 2009;102:116-20

<sup>12</sup> Day JH, Briscoe MP, Ratz JD, Danzig M, Yao R. Efficacy of loratadine-montelukast on nasal congestion in patients with seasonal allergic rhinitis in an environmental exposure unit. *Ann Allergy Asthma Immunol* 2009;102:328-338

<sup>13</sup> Meltzer EO, Ratner PH, McGraw T. Oral phenylephrine for nasal congestion in seasonal allergic rhinitis: a randomized, open label, placebo-controlled study. *J Allergy Clin Immunol Pract* 2015;3:702-8