



## ORIGINAL ARTICLE

# The impact of oral phenylpropanolamine on blood pressure: a meta-analysis and review of the literature

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Oral phenylpropanolamine is commonly used to treat congestion and obesity. Clinicians often wonder what effect it has on blood pressure and whether they are safe in hypertensive patients. The purpose of our systematic review was to assess whether these drugs cause clinically meaningful elevations in pulse or blood pressure. English-language, randomized, placebo-controlled trials of oral phenylpropanolamine in adults with extractable data on pulse or blood pressure were studied. MEDLINE (1966–2003), Embase, the Cochrane library and reviewed article references were used as sources. Systolic (SBP) and diastolic blood pressure (DBP) and heart rate data were extracted. Additional extracted data included demographics, year, study design, study duration, drug dose and frequency, duration of washout and country. Study quality was assessed using the methods of Jadad and data were synthesized using a random effects model using weighted mean differences. In all, 33 trials reporting

48 treatment arms with 2165 patients were included. Phenylpropanolamine increased SBP 5.5 mmHg (95% CI: 3.1–8.0) and DBP 4.1 mmHg (95% CI: 2.2–6.0) with no effect on pulse. Patients with controlled hypertension were not at greater risk of blood pressure elevation. Immediate release preparations had greater effects on blood pressure than sustained release ones. Higher doses and shorter duration use also caused greater increases. Eighteen studies contained at least one treated subject having blood pressure elevations  $>140/90$  mmHg, an increase in SBP  $>15$  mmHg or an increase in DBP  $>10$  mmHg. In conclusion, phenylpropanolamine caused a small, but significant increase in systolic blood pressure. The effect was more pronounced with shorter-term administration, higher doses of medication and immediate release formulations.

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## Introduction

Oral phenylpropanolamine is a common ingredient in many medications such as decongestants, cough remedies and weight control agents. There are numerous case reports in the literature suggesting that oral phenylpropanolamine can raise blood pressure to dangerous levels,<sup>1,2</sup> while other reviews suggest that the danger from these medications is overexaggerated.<sup>3,4</sup> In November 2000, The United States Food and Drug Administration recommended

that medications containing phenylpropanolamine be voluntarily recalled over the concern of increased incidence of haemorrhagic stroke.<sup>5</sup> However, other regulatory bodies such as the United Kingdom's National Health Service's Committee on Safety of Medicines have allowed phenylpropanolamine sales to continue, noting that the medication was mostly used for common cold remedies and at a lower maximum daily dose (100 mg) than that used in the United States (150 mg).<sup>6</sup> The Committee did, however, caution physicians using phenylpropanolamine in patients with high blood pressure and heart disease.

Given the high number of patients prescribed oral decongestants, we wished to evaluate the effect of oral phenylpropanolamine on pulse rate and blood pressure. We also wished to perform subgroup analysis to examine if the magnitude of changes on pulse rate and blood pressure were affected either by patient characteristics, such as age, sex or currently treated hypertension, or by drug characteristics such as extended or immediate release formulations and treatment duration.

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The opinions or assertions contained herein are the private views of the authors and are not to be construed as official or as reflecting those of the Department of the Army or the Department of Defense.

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# Phenylpropanolamine A Review

**Rachel Sandford**



## **Phenylpropanolamine A Review:**

**Phenylpropanolamine** Louis Lasagna, 1988 In the early 1980s adverse reactions reports on phenylpropanolamine available in over the counter cough cold remedies and weight control remedies for the past 65 years began to appear with increasing frequency This text was developed from a comprehensive search of the published literature worldwide on the benefits risks and controversy surrounding the medication Each chapter addresses controversial topics such as the relationship of phenylpropanolamine to khat and Ma Huang national differences in nomenclature conventions the questionable chemical identity and analytical purity of certain products the relationships among phenylpropanolamine ephedrine and amphetamine and more Also examined are drug interactions cardiovascular and central nervous system effects *Phenylpropanolamine* Louis Lasagna, *Phenylpropanolamine* John P. Morgan, Doreen V. Kagan, Jane S. Brody, 1985 **Opinion and Expert Testimony in Federal and State Courts**, 2004 *The American Journal of Clinical Nutrition*, 1993 *Clinical Neurotoxicology* Michael R. Dobbs, 2009-01-01 Clinical Neurotoxicology offers accurate relevant and comprehensive coverage of a field that has grown tremendously in the last 20 years You ll get a current symptomatic approach to treating disorders caused by neurotoxic agents environmental factors such as heavy metals and pesticides and more Apply discussions of cellular and molecular processes and pathology to clinical neurology Leading authorities and up and coming clinical neurotoxicologists present their expertise on wide ranging global subjects and debate controversies in the specialty including Gulf War Syndrome And Expert Consult functionality allows you to access the full text of the book online from any Internet connection Provides a complete listing of neurotoxic agents from manufactured to environmental so you get comprehensive clinical coverage Covers how toxins manifest themselves according to age and co morbidity so that you can address the needs of all your patients Offers broad and in depth coverage of toxins from all over the world through contributions by leading authorities and up and coming clinical neurotoxicologists Features discussion of controversial and unusual topics such as Gulf War Syndrome Parkinson s Disease motor neuron disease as well as other issues that are still in question Includes access to [www.expertconsult.com](http://www.expertconsult.com) a companion website where you can quickly search the complete contents of the book Your purchase entitles you to access the web site until the next edition is published or until the current edition is no longer offered for sale by Elsevier whichever occurs first If the next edition is published less than one year after your purchase you will be entitled to online access for one year from your date of purchase Elsevier reserves the right to offer a suitable replacement product such as a downloadable or CD ROM based electronic version should online access to the web site be discontinued **Clinical Toxicology** Marsha D. Ford, 2001 Heres all the guidance needed to assess diagnose and manage poisoned and overdosed patients Clinically oriented and practical this comprehensive yet concise resource is organized to give busy clinicians quick access to vital information Covers commonly encountered poisonings and overdoses with an emphasis on clinical presentation and treatment Explores general management principles approaches to poisoned

patients and a full range of toxins Offers chapters on how to approach patients with presenting signs and symptoms such as CNS depression and agitation seizures peripheral neuropathy cardiovascular instability hepatic and renal failure hematologic abnormalities and more Presents material in a user friendly standardized format enabling busy clinicians to access vital information on diagnosis laboratory evaluation stabilization and treatmentfast Examines toxins in depth including the drugs toxins and clinical states most commonly encountered Features a wealth of tables illustrations photographs radiographs and algorithms that clarify key concepts Contains valuable addenda on drugs and doses used in poisoned and overdosed patients helpful Internet sites toxic drug levels and legal issues *Look Alike Drugs* United States. Congress. House. Committee on the Judiciary. Subcommittee on Crime,1983 **Chemicals Identified in Humans** ,1982 Biscayne Bay Coastal Wetlands Final Integrated Project Implementation Report and Environmental Impact Statement United States. Office of the Assistant Secretary of the Army (Civil Works),2012 **OECD Public Governance Reviews Improving Competitive Practices in Hungary's Public Procurement Reducing Single-bids and Enhancing Supplier Participation** OECD,2024-10-12 This report analyses competition in public procurement in Hungary and the rationale behind the high prevalence of single bidding It provides an empirical analysis of competition using procurement data and several variables It also provides recommendations on potential improvements to institutional and regulatory frameworks to foster competition and improve the Hungarian Government s action plan to increase competition in public procurement from 2023 to 2026 Finally it provides recommendations to improve the capacity of both contracting authorities and bidders regarding public procurement

Handbook of Non-prescription Drugs ,1993 *Emergency Management of Selected Drugs of Abuse* Carson R. Harris,2000 Emergency physicians are challenged every day by patient presentations of a variety of typically abused substances Stimulants narcotics sedatives hallucinogens as well as newer agents and commonly abused herbs plants and volatile substances all of which are gaining popularity in the adolescent population This book is a uniquely designed quick reference on commonly abused drugs and substances and their physical and clinical effects the conditions that lead to emergency department presentations secondary to abuse and their diagnosis and management A color coded road map feature see Click to view larger image above is included to direct you to quick look section tabs and page numbers to find valuable and pertinent information quickly even if you aren t sure about the specific drug or category of drug ingested An appendix provides an extensive alphabetical list of street names for abused drugs and each chapter also contains the more common street names of those drugs and substances discussed within the chapter No other book offers you this type of information this quickly Time is of the essence when you need to make a diagnosis and start treatment This book is designed to save you time but it doesn t stop there It provides useful information about the origins of these substances and their impact on society Read further into each chapter to learn more about the pharmacology and pathophysiology clinical presentation differential diagnosis and emergency department management for specific stimulants narcotics and opiates

sedative hypnotics herbs and plants hallucinogens volatile substances and newer agents ABOUT THE AUTHOR Carson R Harris MD FACEP Dr Harris is senior staff attending and director of toxicology education at the Regions Hospital emergency medicine residency program in St Paul Minnesota and director of the clinical toxicology teaching service He is an assistant professor in the Clinical **Clinical Pharmacy** ,1992 □□□□□□ ,1998 Goldfrank's Toxicologic Emergencies Lewis R. Goldfrank,2002 The number 1 reference in the field for the last quarter of a century Goldfrank s Toxicologic Emergencies Eighth Edition has been completely updated to equip emergency physicians with today s most authoritative guide to clinical toxicology The book presents unsurpassed coverage of all aspects of toxicologic emergencies from pharmacology and clinical presentation to treatment guidelines and case studies Using a unique case study approach Goldfrank s fully examines general principles and techniques the biochemical and molecular basis of toxicology and how toxins affect vital signs organs and systems throughout the body From publisher s description **Annual Report and Balance Sheet** London Trades Council,1896 **Report of the International Narcotics Control Board for ...** International Narcotics Control Board,1998 **The Business Communication Casebook** James S. O'Rourke,2002 The 36 real life cases in this collection explore aspects of the communication process in business requiring students to apply theories of communication and integrate them with management strategies Details of the cases come from public sources such as newspapers news gathering organizations and *2003 Project Plan of Action Mid Year Review* Malawi,2003

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