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Brompheniramine and Chlorpheniramine Pharmacokinetics Following Single-Dose Oral Administration in Children Aged 2 to 17 Years

April 2018 – *The Journal of Clinical Pharmacology*

Why is this article important to you?

This article describes an age-/weight-based dosing nomogram for brompheniramine maleate and chlorpheniramine maleate in children over ages 2 to 17 years. It characterizes key PK parameters including clearance, volume of distribution and terminal half-life in children using non-compartment analysis (NCA) and assessed how these parameters would change with age and body weight. Finally, it describes the resulting similar systemic exposures across ages using currently proposed dosing nomogram and how this can be used to guide future trials in children.



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UAN: 0238-0000-18-030-H04-P – ACPE 1 Contact Hours

Activity Type: Knowledge-based **Format:** Home-study **Target Audience:** 'P'



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ACCME Designation Statement

The Accreditation Council for Continuing Medical Education designates this journal CE activity for 1 *AMA PRA Category 1TM* credit. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Disclosures:

Article Selection: Joseph Bertino, PharmD, Editor-in-Chief, JCP; Owner, Bertino Consulting, selected this article and has nothing to disclose.

Planner: Yan Xu, MD, PhD, Associate Director, Global Clinical Pharmacology, Janssen Research & Development, developed the continuing education portion of this activity (target audience, goals and objectives and questions with solutions), has nothing to disclose related to this educational topic.

Reviewer: Theodore Xanthos, PhD, MD, Professor of Medicine, European University of Cyprus, has nothing to disclose.

Target Audience

Healthcare professionals specializing in pediatric clinical practice. Scientists from the pharmaceutical industry and academia with responsibilities or involvement in the following areas: pediatric drug development, pediatric clinical trials, clinical pharmacology. Medical and Pharmacy students who are also interested in these topics.

Goal and Objectives

After completing this activity, the learner will be able to:

- 1) Describe the impact of age and/or body weight on key PK parameters in children.
- 2) Interpret how these changes can be used to guide dose optimization in the targeted pediatric population.
- 3) Explain the principle of 'exposure match' in the dose selection in children across age and weight groups and how this would impact efficacy.
- 4) Analyze the allometry rule and its application in pediatric PK.

Requirements to Receive Credit

In order to receive CE credit, the learner must register for the educational activity, study the provided journal article, complete the online post-event assessment (test) with a score of 75% or higher, complete an online evaluation, and print their certificate.

Schedule & Fees

JCP monthly Journal CE articles are generally released on the 2nd Tuesday of each month. They are priced in packages of Jan - Dec for each year. Packages are available at no cost to ACCP Members and \$75/calendar year to Non-members. Once you register, you have access to all of the articles for the calendar year.

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Home Study Initial Release and Expiration Dates

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