

Epinephrine personal autoinjectors cost-effective at \$24

November 19 2018



(HealthDay)—In a simulation of children with peanut allergy,

epinephrine personal autoinjectors are cost-effective at \$24, according to a study published online Nov. 16 in *JAMA Network Open*.

Marcus Shaker, M.D., from the Dartmouth-Hitchcock Medical Center in Lebanon, New Hampshire, and Matthew Greenhawt, M.D., from the University of Colorado School of Medicine in Aurora, assessed cost ceilings for value-based epinephrine prices in peanut allergy. They compared a cohort of children with a peanut allergy who had been prescribed epinephrine autoinjectors to children with a peanut allergy not receiving personal epinephrine prescriptions.

A total of 100,000 simulated infants with [peanut allergy](#) entered each strategy; two-thirds of the group received annual personal epinephrine prescriptions and used these devices appropriately. The researchers found that the cost of anaphylaxis preparedness and treatment was \$25,478 in those with personal epinephrine devices versus \$654 in those without personal epinephrine. The average food allergy fatality was 0.00056 and 0.00148 per patient prescribed self-injectable epinephrine and not prescribed self-injectable epinephrine, respectively. Based on a 10-fold fatality risk difference, the value-based price for personal epinephrine was \$24. The autoinjector incremental cost-effectiveness ratio was \$2,742,697 per quality-adjusted life-year at a market cost of \$715 per twin pack. The value-based price ceiling for a personal autoinjector was \$264 if a hypothetical fatality risk protection from personal [epinephrine](#) was modeled at 100-fold.

"Current [autoinjector prices](#) are not cost-effective in preventing an outcome of fatality from food [allergy](#)," the authors write.

Several authors disclosed financial ties to the biopharmaceutical industry.

More information: [Abstract/Full Text](#)

Copyright © 2018 [HealthDay](#). All rights reserved.

Citation: Epinephrine personal autoinjectors cost-effective at \$24 (2018, November 19) retrieved 6 May 2024 from

<https://medicalxpress.com/news/2018-11-epinephrine-personal-autoinjectors-cost-effective.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.