

Self-imposed use cessation dates tied to ophthalmic drop waste

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Self-imposed use cessation dates (SUCD) for multiuse eye drop bottles leads to significant drug waste and associated costs, according to a report <u>published</u> online July 1 in *Ophthalmology*.



John M. Tan, from the Icahn School of Medicine at Mount Sinai in New York City, and colleagues quantified the <u>volume</u> of drugs discarded in ambulatory clinic settings due to SUCD (discarded after 14 or 28 days) for multidose ophthalmic drops. Bottles slated for disposal at three 14-day intervals from three hospital-based ophthalmology clinics were analyzed for remaining volumes.

The researchers found that over six weeks, 297 bottles were discarded, with an average of 71.9% of the total volume of medication remaining in each bottle at the time it was discarded. The average time was 494 days between SUCDs and U.S. Food and Drug Administration-regulated expiration dates (FREDs; median, 533). Given the rate of usage, an estimated 91% of the discarded bottles would be fully depleted before expiration if FREDs were followed.

An estimated 724,719 drops would be wasted over the year, translating to 188,647 encounters for proparacaine; 98,567 encounters for tropicamide; and 42,866 for phenylephrine. This yielded an extrapolated actual annual cost for eye drops of approximately \$111,527.

"We are currently working with the Health System to consider using FDA-regulated expiration dates as the discard dates for our drops and have also instituted measures to reduce the number of <u>bottles</u> that are opened and ultimately wasted," co-author Gareth Lema, M.D., Ph.D., also of the Icahn School of Medicine at Mount Sinai, said in a statement.

More information: John M. Tan et al, Ophthalmic drop waste due to self-imposed use cessation dates, *Ophthalmology* (2024). <u>DOI:</u> 10.1016/j.ophtha.2024.06.020

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