

Innovative transdermal patch for delivery of HIV medicine featured at AAPS Annual Meeting

October 25 2011

An innovative delivery method for human immunodeficiency virus (HIV) medications has been developed through use of a transdermal patch, the first of its kind to treat HIV. This research is being presented at the 2011 American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition in Washington, D.C., Oct. 23 – 27.

HIV is an ever-growing worldwide epidemic. According to the World Health Organization, in 2009 an estimated 33.3 million people worldwide were infected. The Centers for Disease Control estimated that in 2008, 1.2 million people age 13 and older were living with [HIV](#) in the U.S. Many of these individuals take up to 20 pills daily to keep their viral load low.

Lead researcher Anthony Ham, Ph.D., and his colleagues from ImQuest Biosciences in Frederick, Md., developed a transdermal patch which releases more than 96 percent of the HIV medication over the course of seven days.

"As we enter the fourth decade of HIV/AIDS, this new [delivery method](#) will hopefully reduce the numerous pills most HIV patients have to take daily," said Ham. "Taking medicines regularly reduces symptoms in HIV patients and extends lives. The transdermal patch offers an easier option for patients to comply with their medication regimes as compared to current treatments."

This non-invasive patch also shows a potential economic advantage in terms of shipping costs as compared to pills or needles. With an estimated 15 million people living with HIV in developing countries and only 5.3 million people with access to treatment, this offers a more affordable and accessible way to address this unmet medical need.

The 2011 AAPS Annual Meeting and Exposition, the world's largest pharmaceutical sciences meeting aims to improve global health through advances in pharmaceutical sciences. AAPS, currently celebrating its 25th Anniversary, has themed the keynote and plenary sessions at this year's Annual Meeting "The Next 25 Years." An estimated 9,000 scientists from around the world will participate in 90 sessions, including more than 60 symposia and roundtables.

Provided by American Association of Pharmaceutical Scientists

Citation: Innovative transdermal patch for delivery of HIV medicine featured at AAPS Annual Meeting (2011, October 25) retrieved 25 April 2024 from <https://medicalxpress.com/news/2011-10-transdermal-patch-delivery-hiv-medicine.html>

<p>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.</p>
--