The world needs an HIV vaccine

The only way to end the HIV epidemic is with an HIV vaccine. IAVI and partners are closer than ever to this goal.

AIDS isn’t over

Worldwide, 37.9 million people are living with HIV, and HIV/AIDS kills 770,000 people every year. Despite advances in treatment and prevention, about 1.7 million people contract HIV every year. Even worse, experts warn that these numbers could increase significantly due to demographic changes. We need new ways to stop HIV transmission and chief treatment these is a vaccine. That’s why IAVI is committed to developing a safe, effective HIV vaccine for global use.

We must prevent new HIV infections, but prevention isn’t reaching the most vulnerable

Although some highly effective HIV prevention tools are available, the epidemic continues. This is partly due to the challenges people face when trying to adhere to effective prevention options. But it’s also because key populations — men who have sex with men, people who inject drugs, sex workers, and adolescent girls and young women, who account for nearly half of all new infections — are less likely to access existing treatment and prevention services. We need to ensure that HIV prevention tools are accessible to those most in need. We also need new ways to stop the spread of HIV.

HIV treatment is not enough: It’s not widely enough available and it’s too expensive

- HIV treatment doesn’t reach everyone who needs it, and not everyone can adhere to regimens.
- More people require costly lifelong treatment every year — a huge burden on low-income countries.
- The spread of drug-resistant HIV strains could add to the cost of HIV treatment programs and, when treatments fail, result in more deaths.

HIV/AIDS by the Numbers

<table>
<thead>
<tr>
<th>Count</th>
<th>Description</th>
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<tbody>
<tr>
<td>37.9 million</td>
<td>people are living with HIV/AIDS</td>
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<tr>
<td>1.7 million</td>
<td>people contracted HIV in 2018</td>
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<tr>
<td>35%</td>
<td>of people living with HIV don’t have access to treatment and can infect others</td>
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<td>$26.2 billion</td>
<td>needed for global HIV/AIDS response in 2020</td>
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<td>20+</td>
<td>HIV vaccine clinical trials are ongoing</td>
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Only a vaccine will end AIDS

- Vaccines typically provide long-lasting protection.
- Vaccines can be given broadly to a wide range of people, leading to community immunity.
- Vaccines could eliminate adherence and stigma problems associated with HIV treatment.
- Vaccines will likely be cost-effective when compared with a lifetime of treatment.

Sources available at iavi.org/fact-sheets-sources
Innovation fuels progress in HIV vaccine research

Researchers have made great progress in the quest to develop an HIV vaccine. Their findings have led to a new generation of vaccine strategies aiming to stimulate production of powerful antibodies able to block a wide range of HIV variants. This approach and others that target different aspects of the immune system harness advanced molecular engineering and computational tools that have arisen during decades of research on HIV. Many experts agree that not only is vaccine possible, but also that we’re closer to one than ever before.

HIV vaccine research has broad benefits

HIV vaccine research benefits the HIV prevention and treatment field broadly. It has made fundamental contributions to scientists’ understanding of the biology of HIV infection, including the human immune response to infection. Vaccine-focused research into HIV-blocking antibodies has resulted in those antibodies being investigated as standalone prevention products. Beyond HIV/AIDS, the investment in HIV vaccine research capacity has strengthened health systems. And HIV vaccine research has contributed to medical advances for other diseases, leading to longer, healthier lives for people all over the world.

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