The Data: ART reduced HIV transmission by 92%

<table>
<thead>
<tr>
<th>Linked HIV-1 Infection</th>
<th>Person Years</th>
<th>Rate</th>
<th>95% CI</th>
</tr>
</thead>
<tbody>
<tr>
<td>No ART Initiated</td>
<td>102</td>
<td>4,558</td>
<td>2.24 (1.84-2.72)</td>
</tr>
<tr>
<td>After ART Initiation</td>
<td>1</td>
<td>273</td>
<td>0.37 (0.09-2.04)</td>
</tr>
</tbody>
</table>

Adjusted* Relative Risk = 0.08 (95% CI 0.002, 0.57), p=0.004

*For time on study and CD4 count
Community Effects: San Francisco

![Graph showing trends in Mean CVL copies/ml and Number of HIV cases from 2004 to 2008.](image)

- Mean CVL
- Newly diagnosed and reported HIV cases
- HIV Incidence

**Year** 2004 2005 2006 2007 2008

**Mean CVL copies/ml** 798 642 523 518 434

**Number of HIV cases**

- 2004: 935 (CI: 658, 1212)
- 2006: 792 (CI: 552, 1033)
- 2008: 621 (CI: 462, 781)

Das, PLOS Medicine, 2010
ART reduces TB at a community level

TB Rates

ART coverage

HIV infected “off ART”

HIV infected “on ART”

Courtesy of Middelkoop, IAS, Late Breaker, 2009
ART increases work force productivity

CD4 counts pre and post ART

Labor Force Participation pre and post ART

Courtesy of DeWalque, from Goldstein, Graff Zivin and Thirumurthy, Kenya,
Thanks to Antiretroviral Therapy we can face life

We support each other. We tested positive together. We take AIDS treatment together everyday. We are healthy, strong and productive.

AIDS treatment should be taken under strict medical supervision. Get more information about AIDS treatment at a hospital or health centre where you see the Treat for Life sign.

Produced by Joint Clinical Research Centre JCRU
Clustered community randomized trial in African communities in Uganda, Kenya and Tanzania

~20-40 matched communities 10,000 persons per community

Communities randomized to universal ART (no CD4 criteria) vs standard of care

Studies of health care costing embedded in the study
East African Communities – Uganda, Kenya, Tanzania

- Similar rates of HIV, TB, malaria
- Low Income countries
- Demonstrable success with ART implementation

Important that studies done in East Africa
South Africa represents very different setting