There is little knowledge on the prevention of HIV/AIDS in some of the countries where it is most prevalent. There are very few dependable treatments.

HIV prevention requires a combination of programmatic and policy actions that:

- Promote safer behaviors
- Reduce vulnerability to transmission
- Encourage use of key prevention technologies
- Promote social norms that favor this risk reduction

### The Problem

33.2 million people now live with HIV or AIDS. Over 6,800 people become infected every day—that's almost five people per minute.

15 million children have been orphaned by AIDS. Another person age 15-24 becomes infected every 15 seconds. 5,700 people die from AIDS every day. One child dies every minute.

### Natural Killer (NK) Cells

- Cytotoxic lymphocyte, in immune system
- Destroys infected cells
- Called Antibody-dependent cellular cytotoxicity (ADCC)
- ADCC decreased in HIV infection

### Matrix Metalloprotease Inhibitors

- Infection correlates with increased Matrix Metalloproteinase (MMP)
- MMP inhibits ADCC
- Study in 2008 done by Partners AIDS Research Center
- Lowered MMP levels correlated with restoration ADCC activity

### The Solution

**UNAIDS**

UNAIDS is the Joint United Nations Program on HIV/AIDS. It brings together the efforts and resources of 10 UN system organizations to:

- Help prevent new HIV infections,
- Fund research for new treatments,
- Care for people living with HIV, and
- Lessen the impact of the epidemic.

UNAIDS works in more than 80 countries worldwide.

### Next Step

December 1st is World AIDS Day. With Alpha Xi Delta, we will be holding an annual fundraiser for UNAIDS, with the first being on December 1st, 2010.