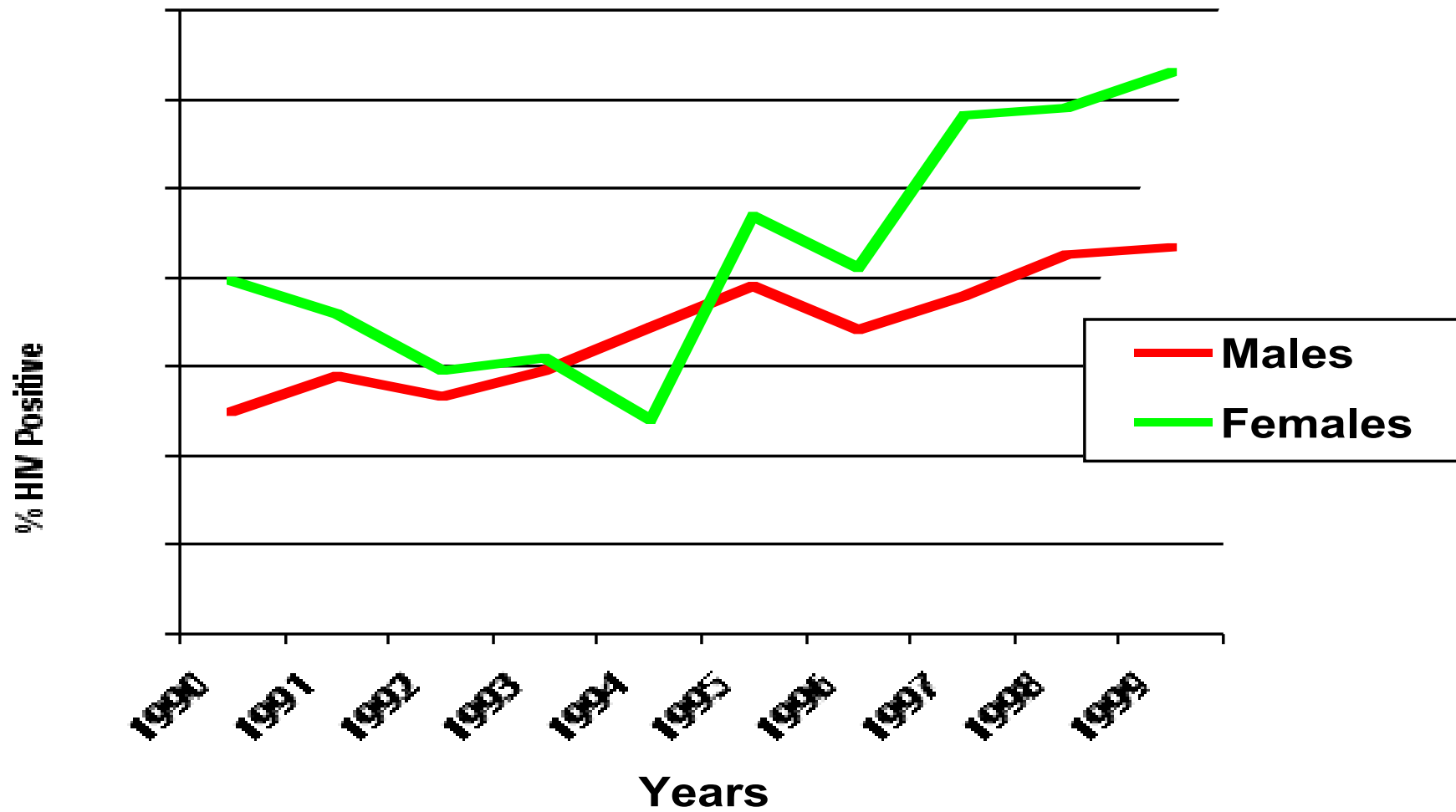


**PREVENTION OF MOTHER-TO-CHILD  
TRANSMISSION OF HIV-1 IN TANZANIA**

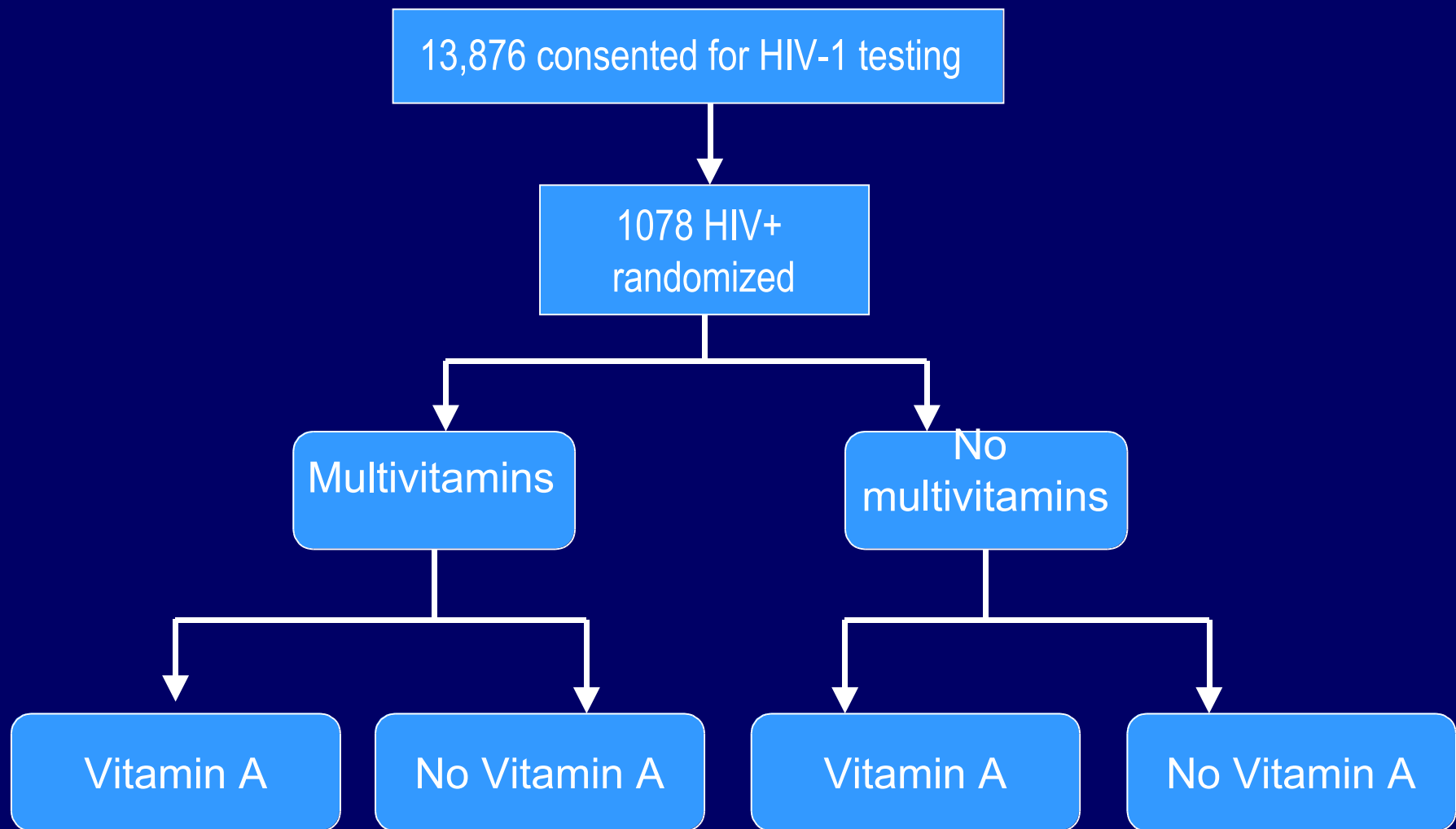


# Incidence of HIV-1 among women

Age (years)	Incidence rate/100 person-years	Age-adjusted RR (95% CI)
15-19	6.5	2.3 (1.1-4.9)
20-24	3.8	1.3 (0.7-2.3)
25-29	2.5	0.9 (0.5-1.7)
30+	2.9	1.0

Kapiga SH, et al. AIDS 1998;12:75-84

# Tanzania Trial of Vitamins and HIV-1 infection



# MTCT of HIV-1

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Overall transmission rate = 26/100 child-years

Vitamin A was associated with increased transmission of HIV-1  
(RR = 1.38, 95% CI=1.09-1.76)

**Multivitamins resulted in significant reduction of HIV -1 transmission through breastfeeding and mortality during the first 2 years in children born to mothers who were immunologically and nutritionally compromised**

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\*\* Fawzi WW, et al. AIDS 2002;16:1935-44

## Multivitamins Supplements and Pregnancy Outcomes/survival

Pregnancy outcome	RR (95% CI)	P-value
Miscarriage*	0.66 (0.32-1.36)	0.26
Stillbirth*	0.58 (0.33-1.02)	0.05
Stillbirth or miscarriage*	0.61 (0.39-0.94)	0.02
Deaths by 24 months among live births**	0.91 (0.71-1.17)	0.46

\* Fawzi WW, et al. Lancet 1998;351:1477-82

\*\* Fawzi WW, et al. AIDS 2002;16:1935-44

# OTHER ONGOING OR PLANNED STUDIES

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## **HIVNET/HPTN 024** (enrollment stopped in Feb, 2003)

- Phase III trial of antibiotics to reduce chorioamnionitis-related perinatal HIV-1 transmission
- Two arms (antibiotic arm and placebo arm)

## **HPTN 046** (starting in Sept, 2003)

- Phase III trial to determine the efficacy and safety of an extended regimen of NVP in infants born to HIV-1 infected women to prevent vertical transmission during breastfeeding

## **CTA/PAF pMTCT PROGRAM** (starting in Aug, 2003)

- pMTCT program in 9 primary health care health facilities in Dar es Salaam

# NATIONAL pMTCT PROGRAM

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**Established in 1995 in four consultant hospitals as part of routine ANC services**

**Supported by UNICEF**

**Health workers trained to provide VCT**

**HIV+ pregnant women receive AZT starting at 34 weeks**

**This program will be expanded to other health facilities**