

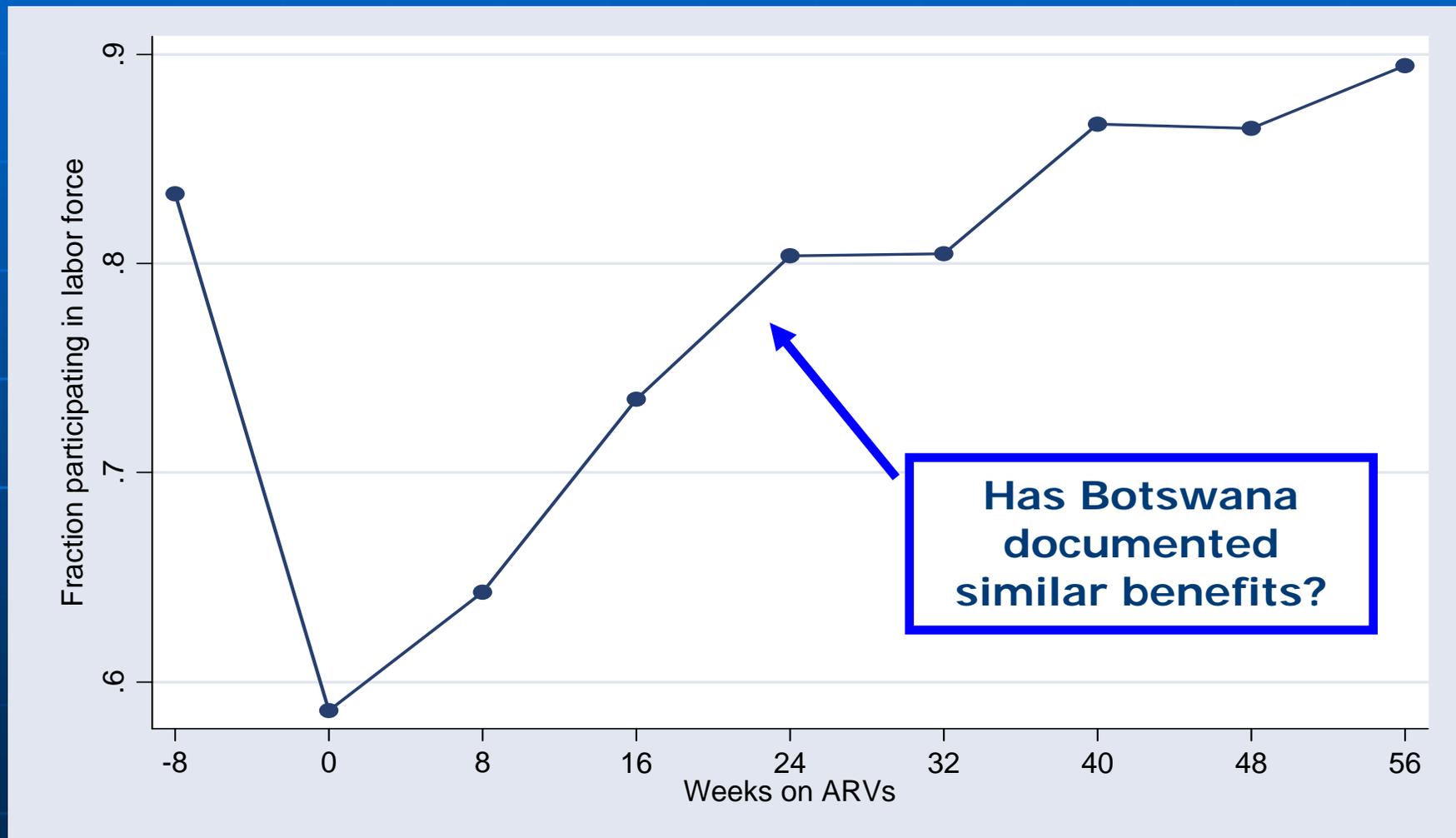
Questions on Art & HIV prevention in Botswana

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June 6, 2007

Direct benefits of anti-retroviral (ART) Treatment

- Health benefits: Life saved, quality of life. Fewer orphans.
- Economic benefits: labor force participation, children going back to school, less child labor

Labor force participation before and after treatment in Kenya

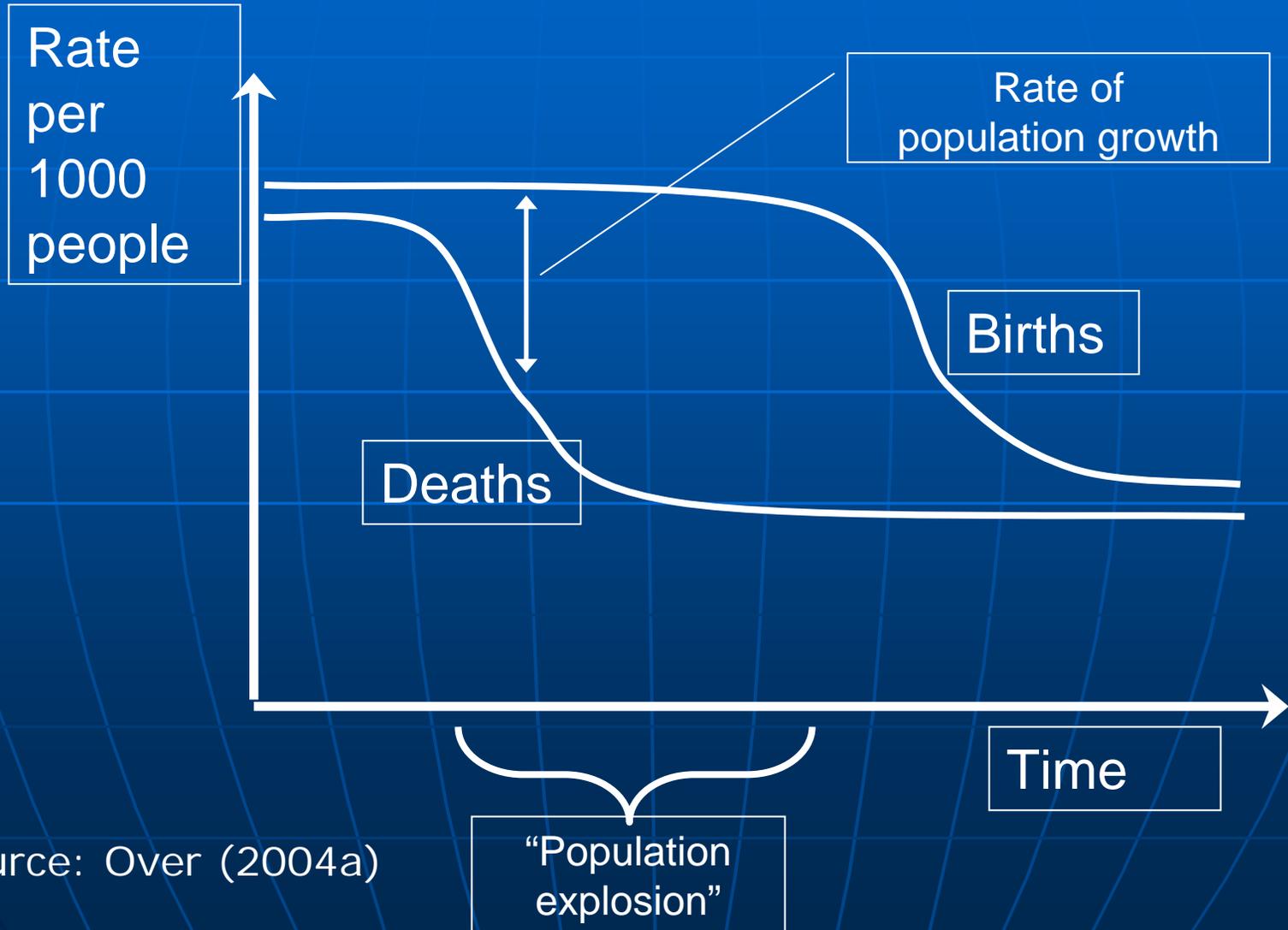


Source: Goldstein, Graff Zivin and Thirumurthy 2005

The objective: An “AIDS Transition”

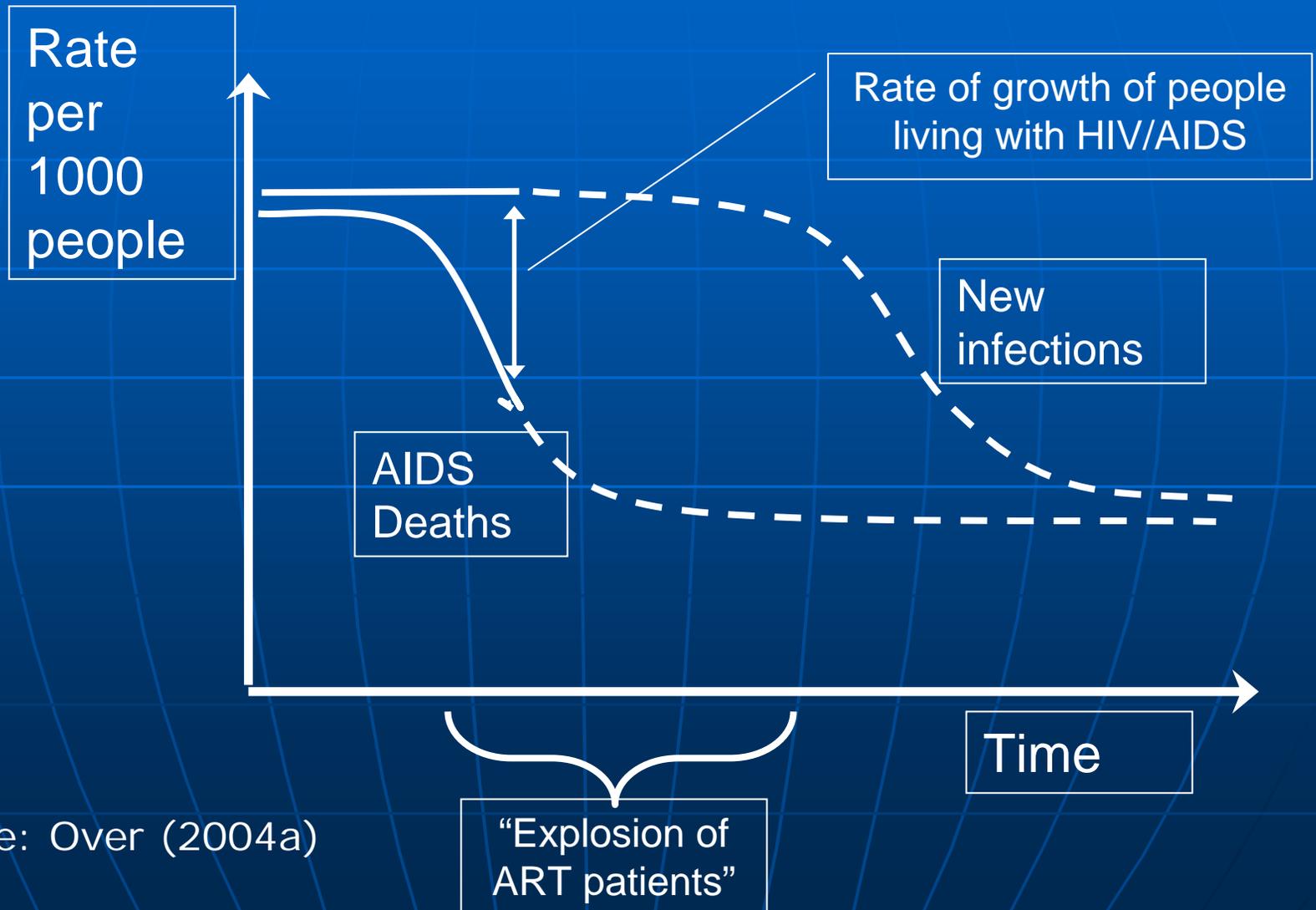
- Death rate from AIDS permanently reduced
- Rate of new infections permanently reduced even lower
- The number of people living with AIDS would then eventually decline

Classic analysis of the demographic transition



Source: Over (2004a)

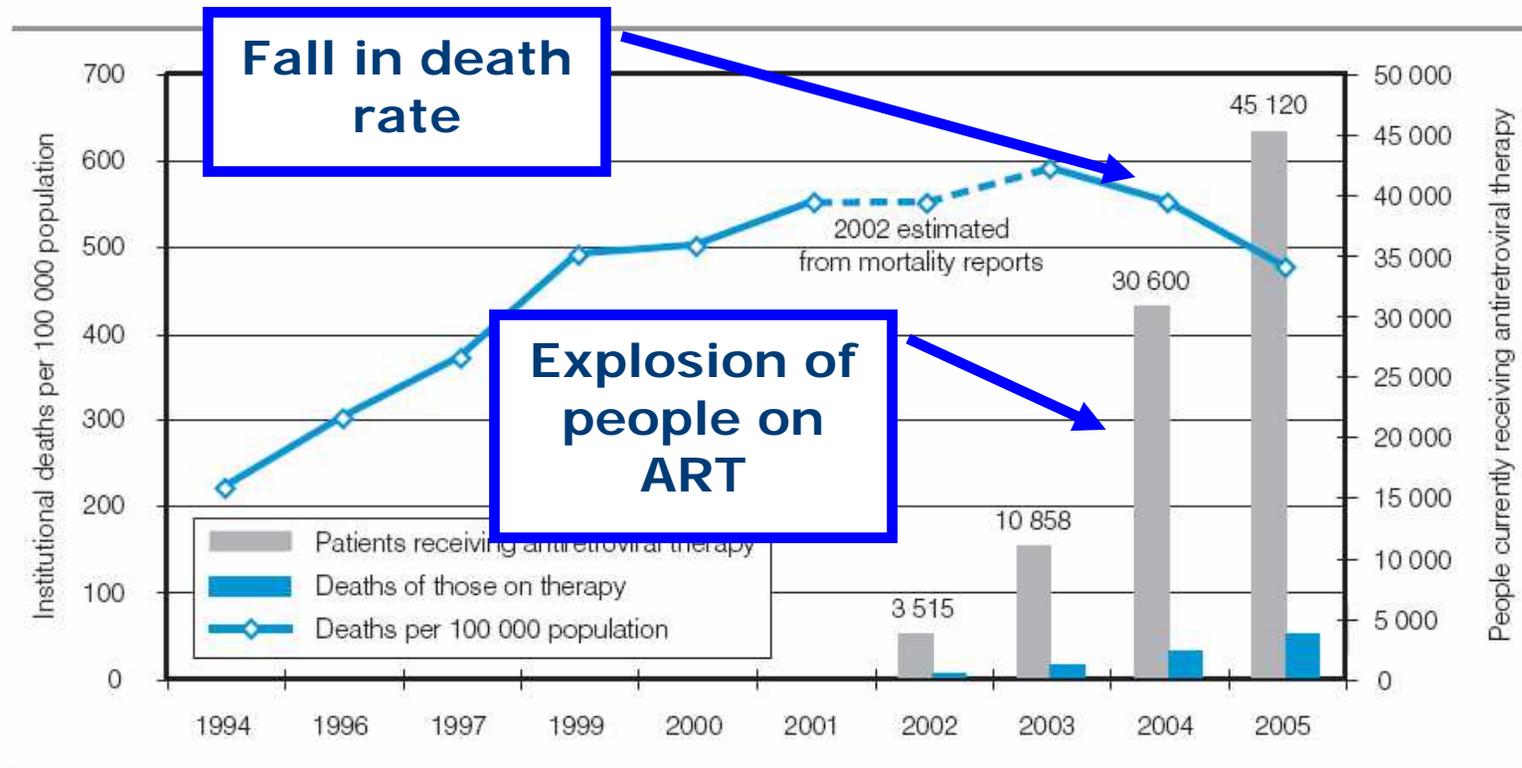
A successful “AIDS Transition”



Source: Over (2004a)

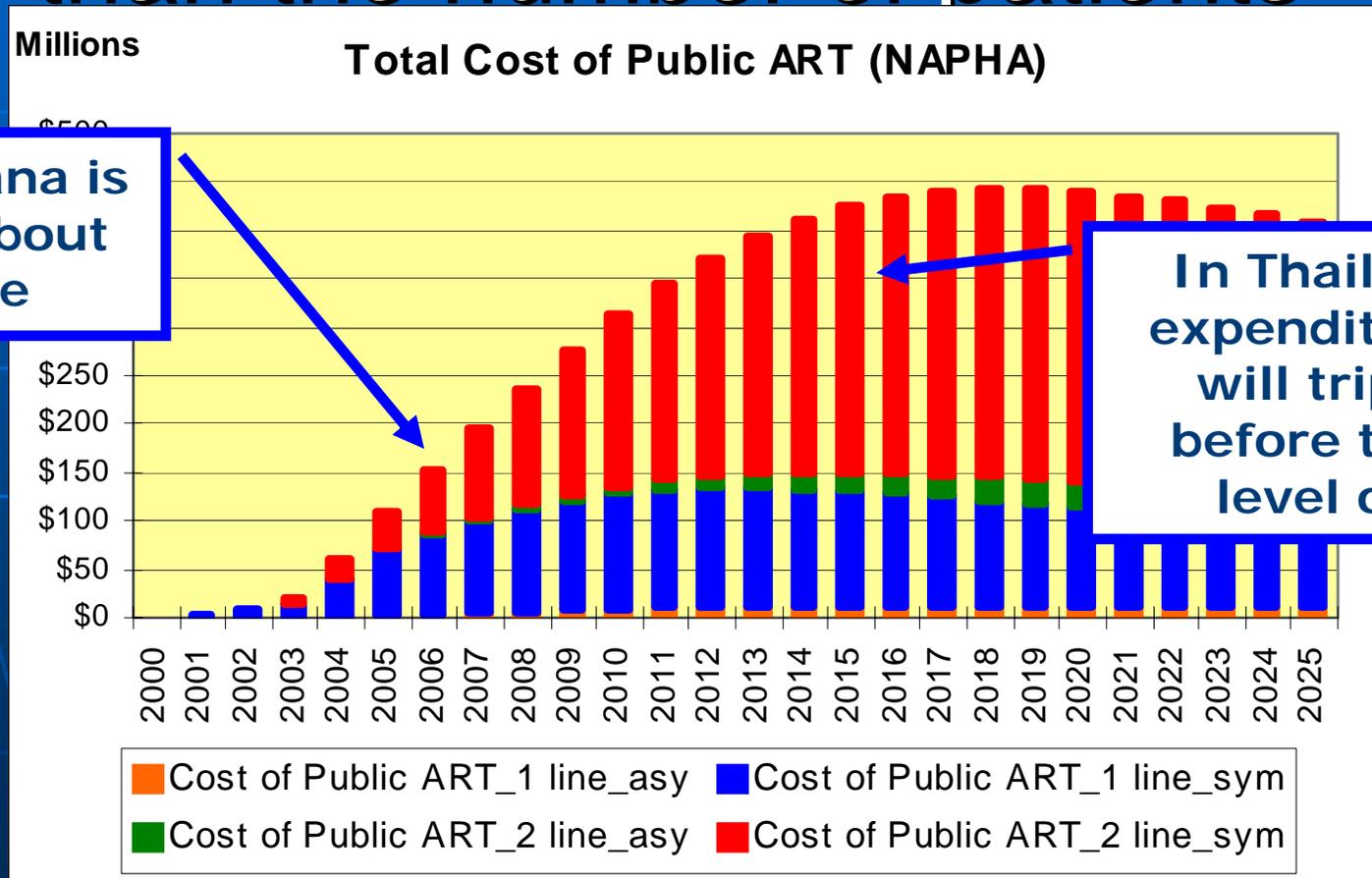
Botswana: Fall in death rate & explosion of people on ART

Fig. 8. Patients currently receiving antiretroviral therapy and deaths on therapy, Botswana 1994-2005^a

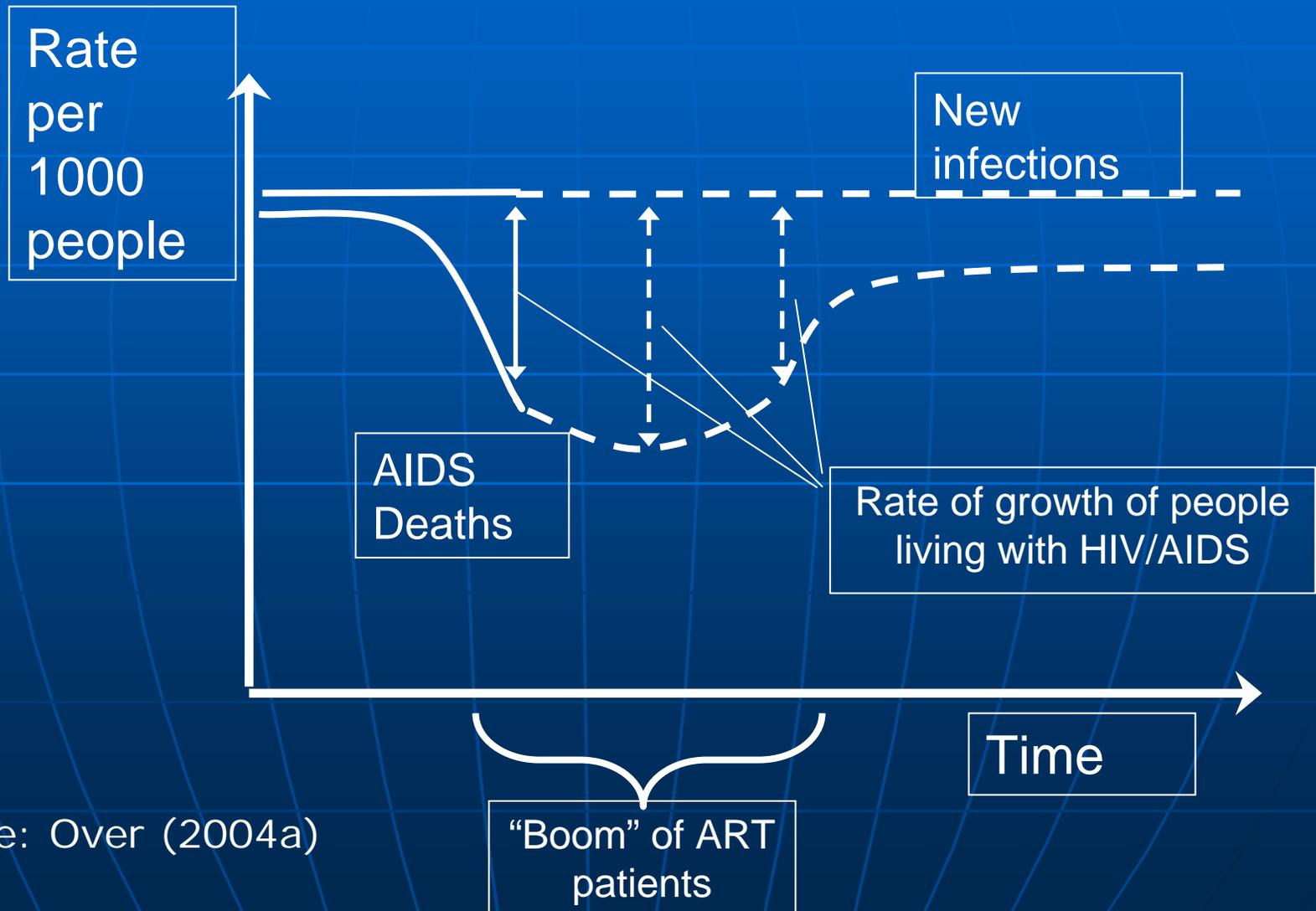


^a 2005 deaths annualized on basis of deaths until June 2005, reported by November 2005; ART programme data reported until September 2005.

As patients move to 2nd line ART, fiscal burden grows more rapidly than the number of patients



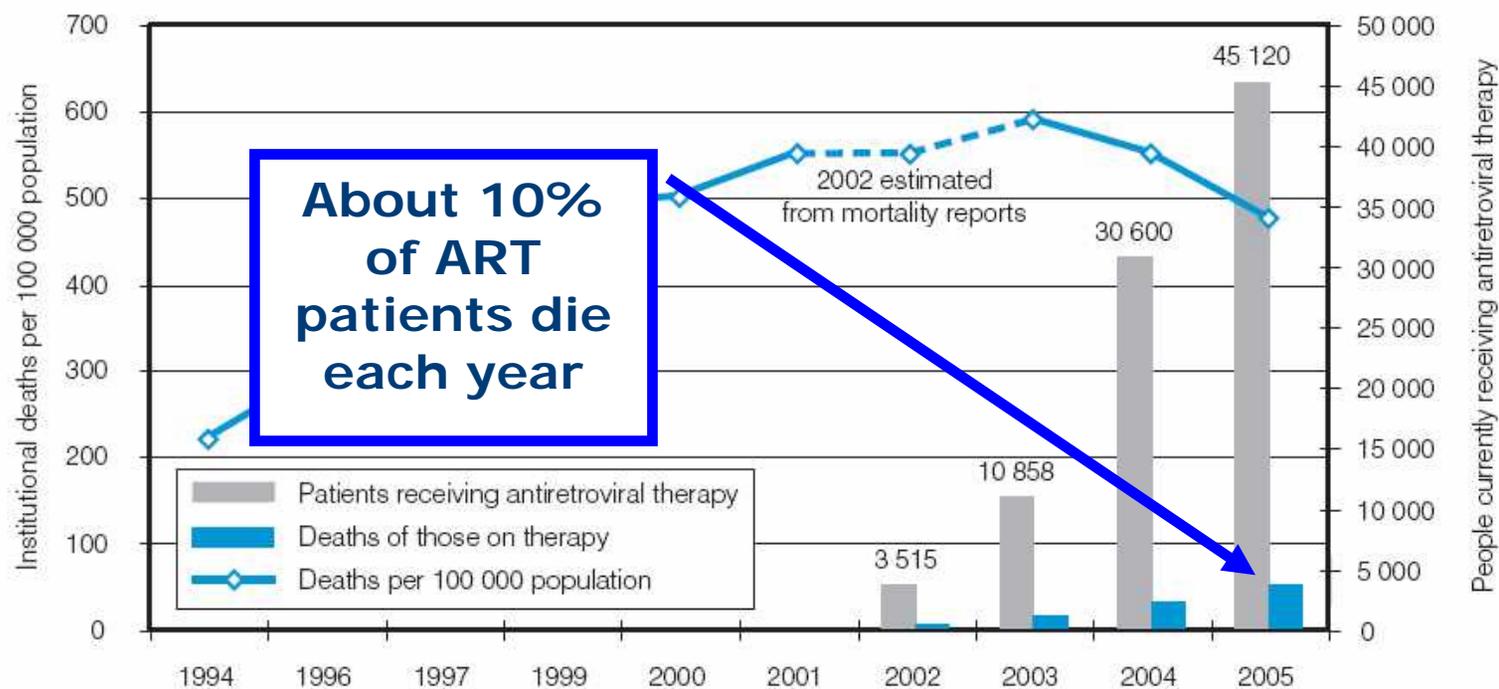
Transition might fail because treatment stops working ...



Source: Over (2004a)

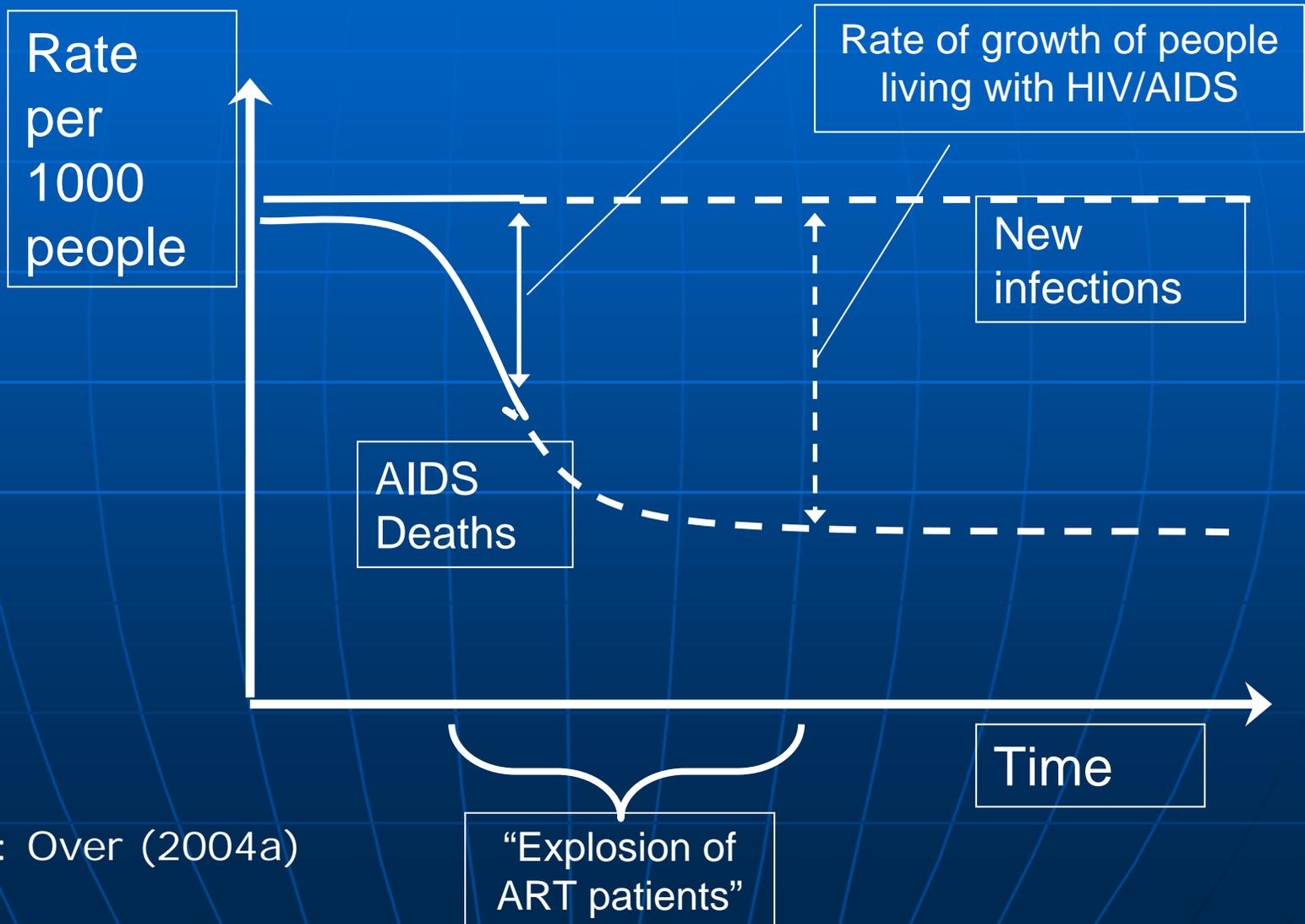
Botswana: How long will patients survive on ART?

Fig. 8. Patients currently receiving antiretroviral therapy and deaths on therapy, Botswana 1994-2005^a



^a 2005 deaths annualized on basis of deaths until June 2005, reported by November 2005; ART programme data reported until September 2005.

... or because the rate of new infections never declines.

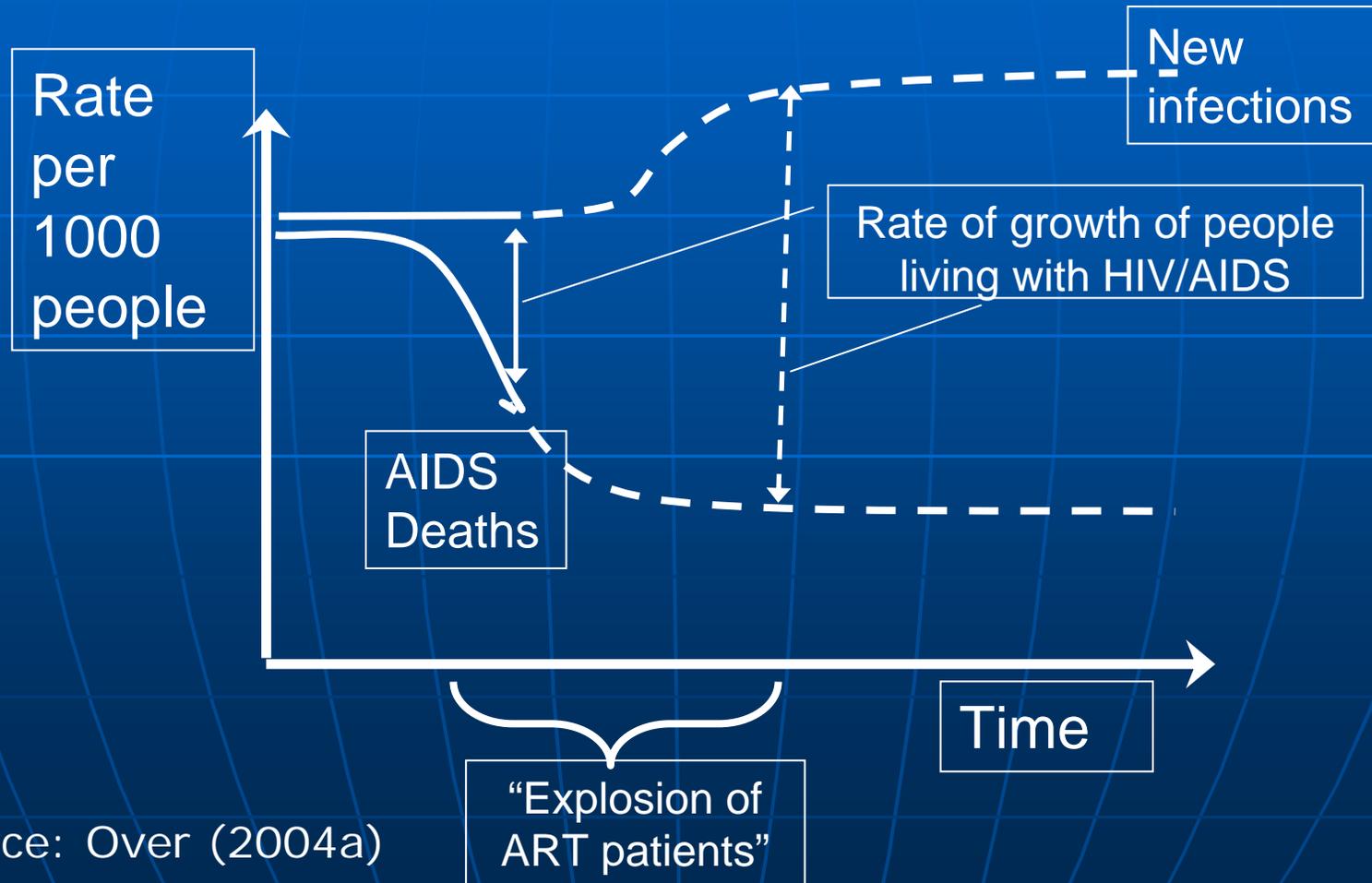


Source: Over (2004a)

ART can affect HIV prevention

	Effects which might <i>slow</i> Transmission	Effects which might <i>speed</i> Transmission
Biological	<ul style="list-style-type: none">• Reduces viral load	<ul style="list-style-type: none">• Lengthens duration• Selects for resistance
Behavioral	<ul style="list-style-type: none">• Motivates testing• Promotes solidarity	<ul style="list-style-type: none">• Reduces perceived risk of unsafe behavior

Suppose ART *increases* HIV transmission



Source: Over (2004a)

Questions posed to Dr. Moeti

- Does Botswana have a back-up plan to pay for AIDS treatment in case aid from outside is not enough?
- In Botswana, has treatment success reduced or increased risky behavior?
- Has Botswana found a way to use treatment as a tool for prevention?

References

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