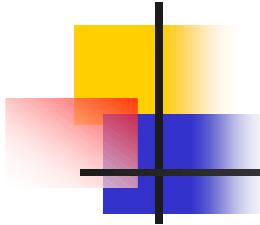


HIV/AIDS: Controversies 2008-10



1. Prevention

2. Treatment

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AIDS: year 2008-10

**AIDS is a STD and a world wide epidemic
(sub-Saharan Africa, Southeast Asia,
Eastern Europe, America).**

**Is threatening global economical &
demographical development and security**



H*i ha coses que*

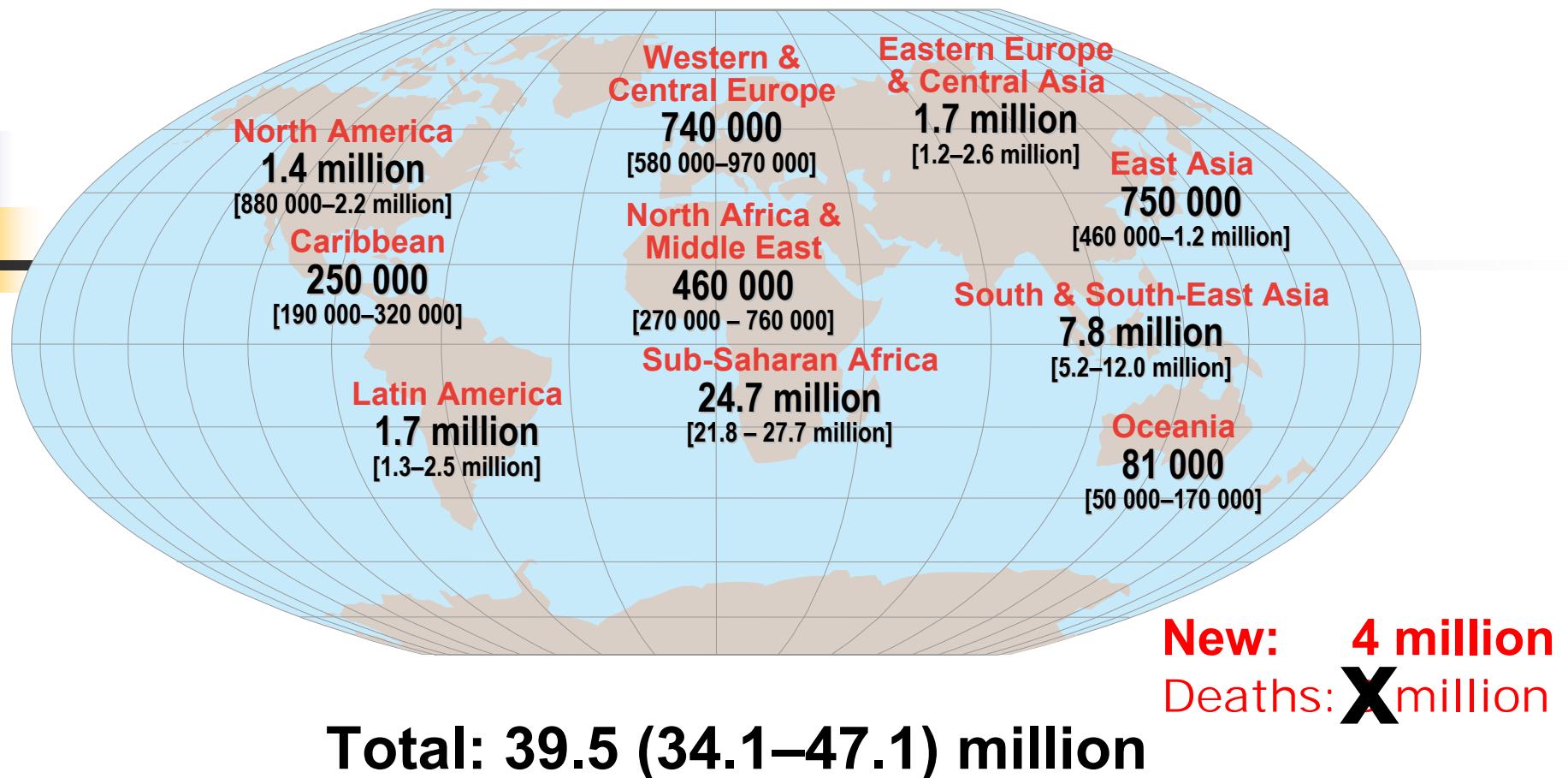
COM MÉS
LES PRACTIQUES,
MÉS T'AGRADEN.



AIDS: year 2008-10

..... Life also is a sexually transmitted disease with 100% mortality

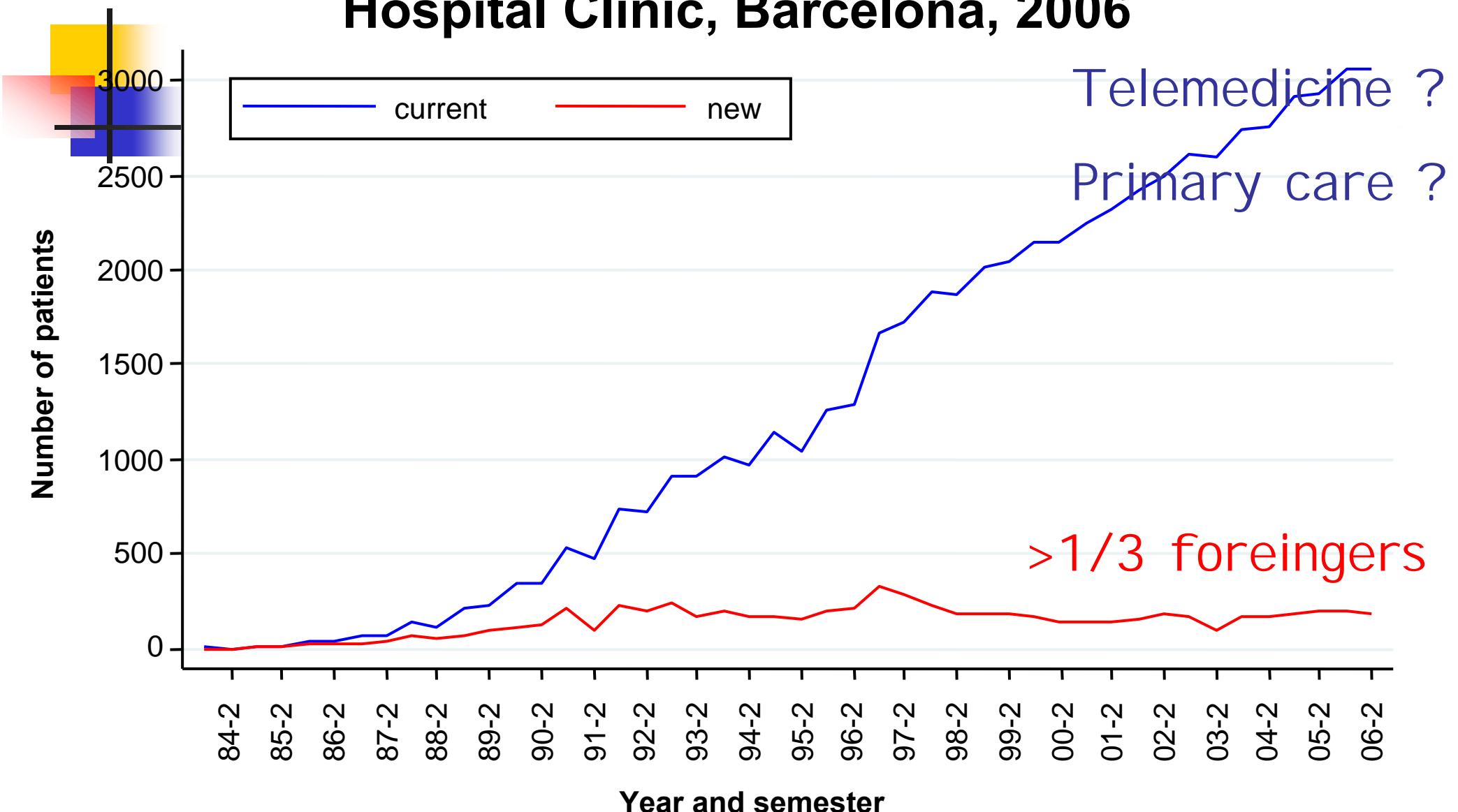
Adults and children estimated to be living with HIV, 2006

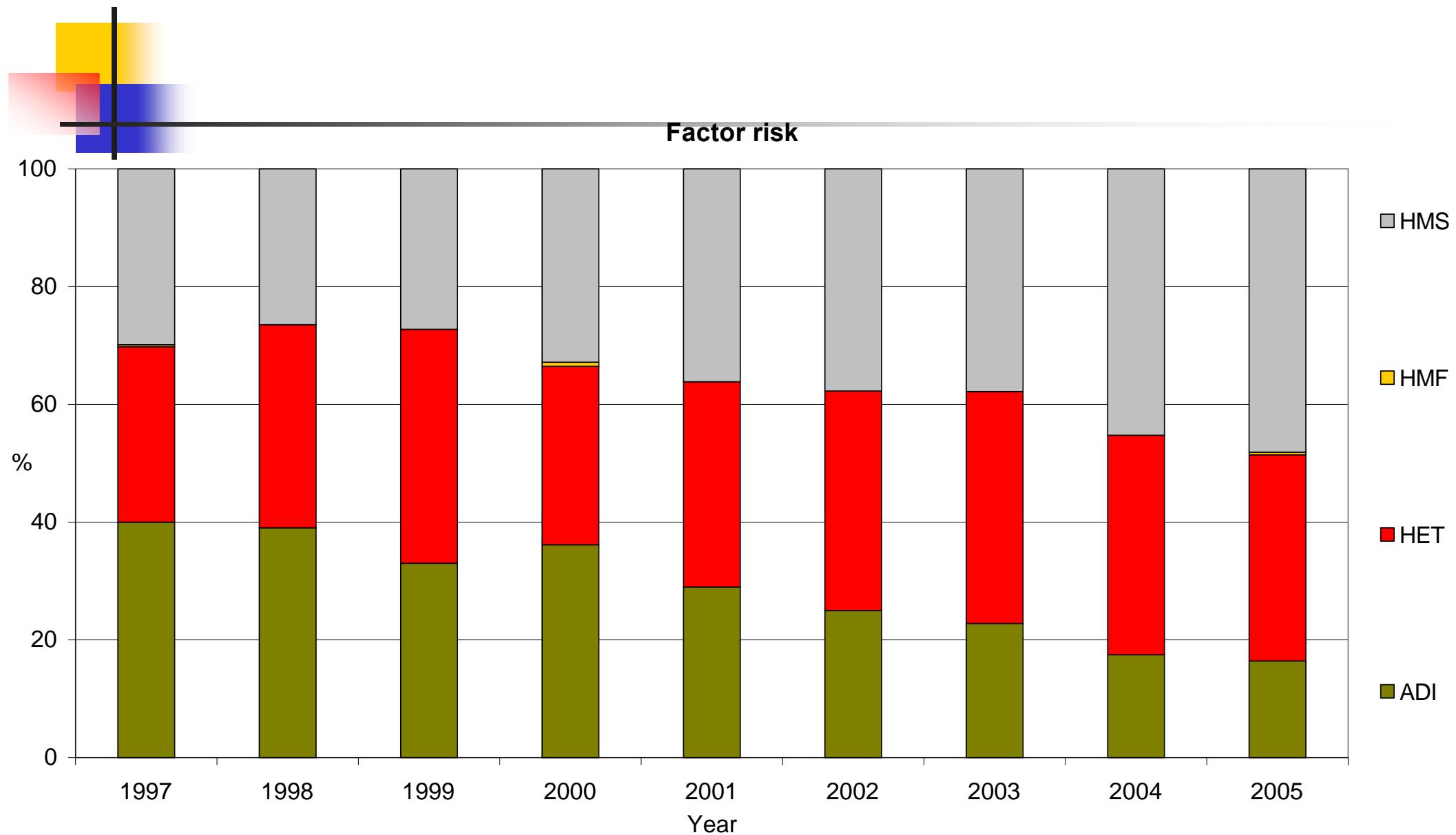


Source: 2006 AIDS epidemic update : December 2006 (UNAIDS/WHO, November 2006)

New and active patients

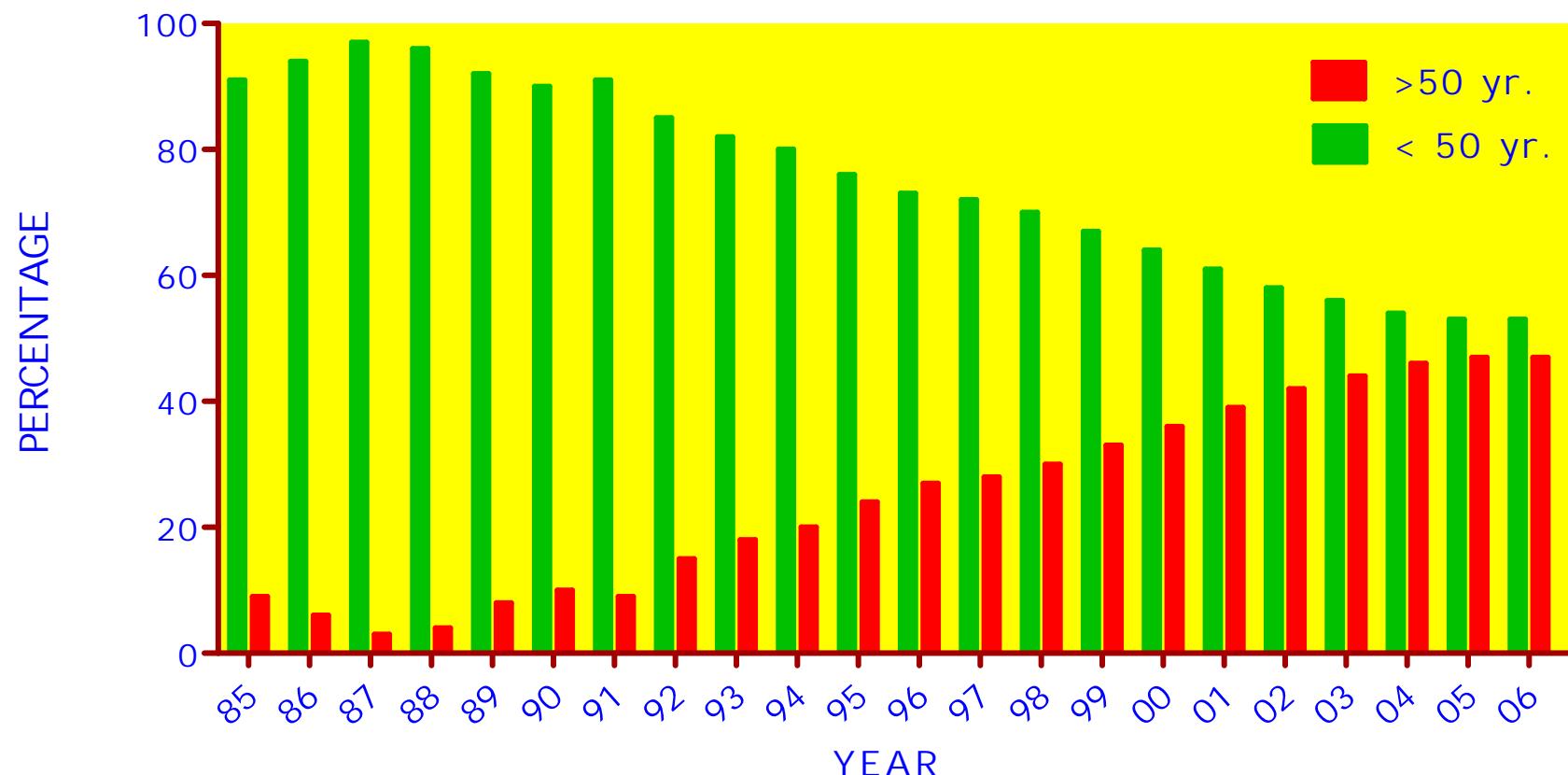
Hospital Clinic, Barcelona, 2006





Getting older with HIV

ACTIVE PATIENTS. H. CLINIC. BARCELONA



Debate en el auditorio de la Caixa d'Estalvis La ciencia, impotente ante el SIDA

«Pronto dispondremos de medicamentos que si bien no eliminarán el virus, sí mejorarán la esperanza y la calidad de vida de los infectados.»
Esta frase del doctor Bonaventura Clotet, del servicio de Medicina Interna del Hospital Germans Trias i Pujol de Badalona, viene a reflejar el estado de indefensión en que se encuentra la Medicina en su lucha contra el SIDA.



Los protagonistas de un debate muy interesante.

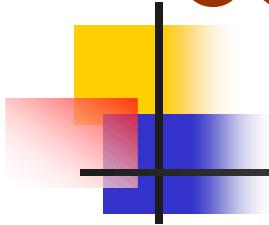




VIII Simposium Sitges
"Por un mundo sin VIH"



Controversies 2008-10



1. Prevention

2. Treatment

Controversies 2008-10

1. Prevention

Less-traditional prevention methods

More HIV testing ?

Vaginal microbicides ??

Diaphragm ??

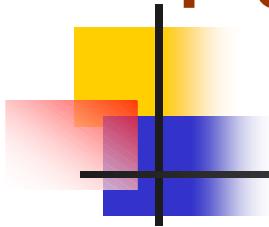
Circumsicion: yes but....

PrEP ? & PEP

Massive treatment ??

Partially effective preventive vaccine ?

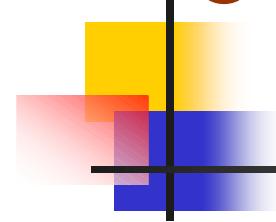
Future controversies 2008-10



1. Prevention

2. Treatment

Controversies 2008-10



Treatment: initial

Earlier ART (>350-500) to avoid:

- non-AIDS events (cardiovascular)
- TB, leishmaniasis
- Hep C & B progression,
- lymphomas, non-Aids malignancies
- pneumonias
- hiv nephropathy

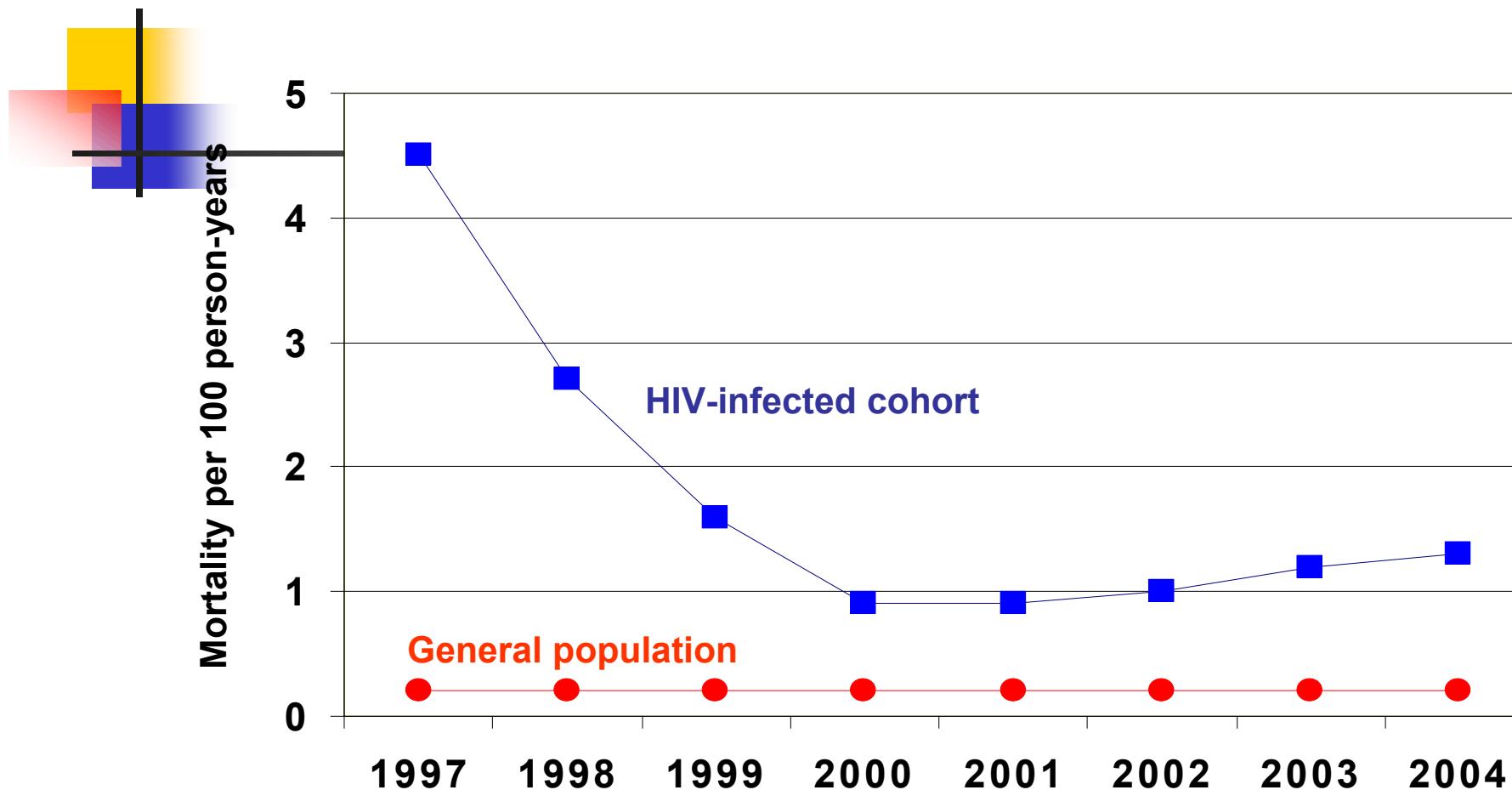
Incidence of TB in HIV-infected Patients in Barcelona (Spain)

x 10⁵ per year

• HIV-infected patients	1,100
• General population	
- Barcelona	32
- USA, Western EC	10-20
- South East Asia	500

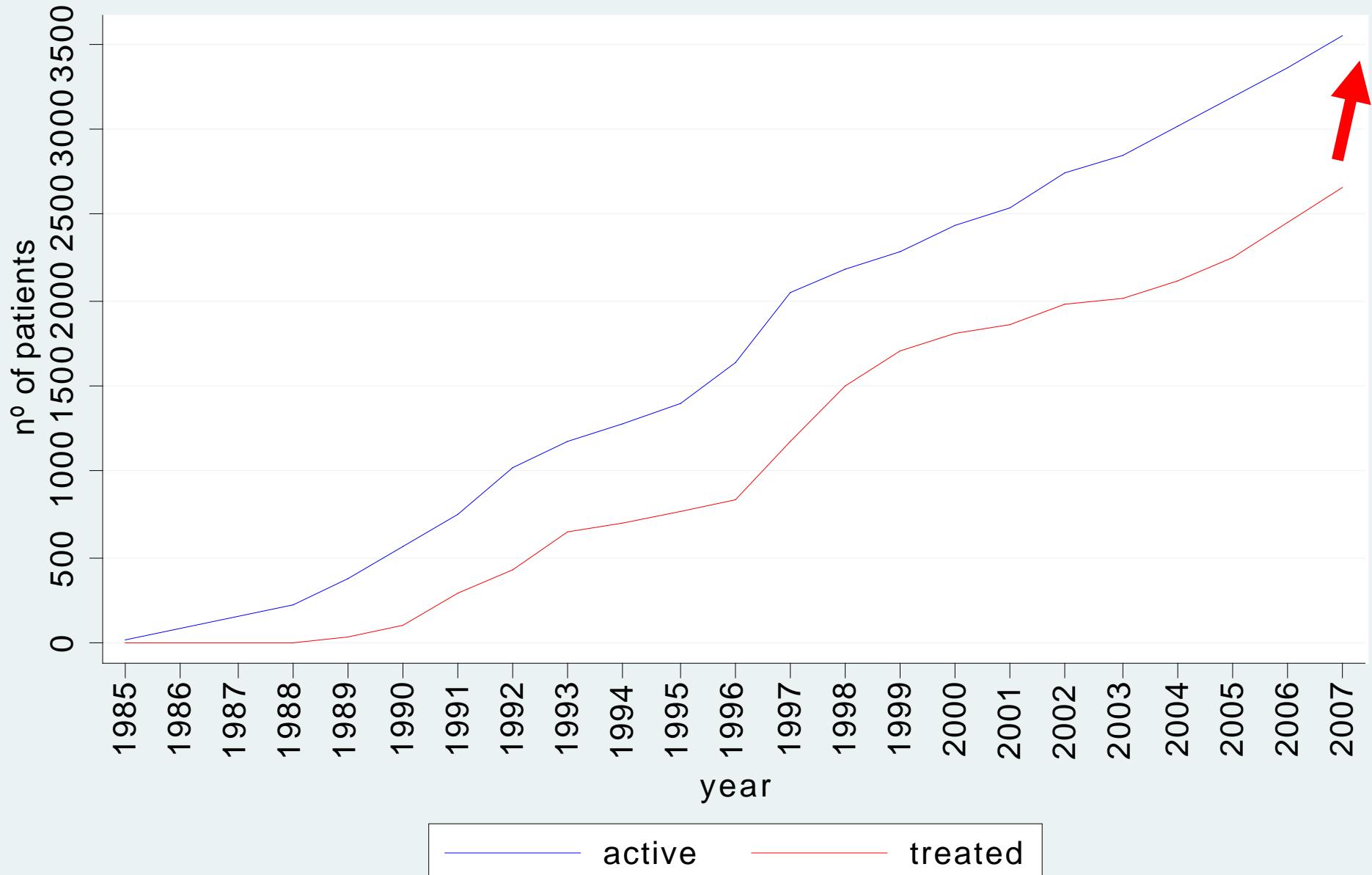
* Spanish AIDS registry, 2003

Annual incidence of mortality in the HIV-infected cohort compared with general population aged 16-65 years in Catalonia

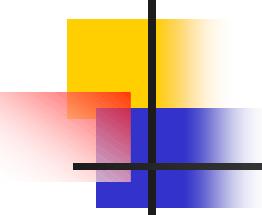


- Significant reduction in mortality for HIV-infected patients over this period ($P<0.001$; χ^2 test for trend), but not for the general population ($P<0.936$; χ^2 test for trend)

Pacientes activos y tratados



Controversies; 2008-10



2. Treatment: initial

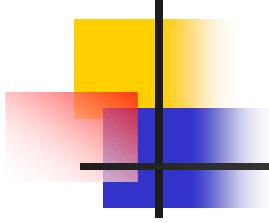
Role of new formulations / drugs

Atripla:	Psychology
Maraviroc:	Natural niche
Raltegravir:	“Sexy” drug
TMC 278:	CNS, Pregnancy

Revisiting eradication

Price !!!!!: 50% pharmacy budget

Major driving forces ...



	Efficacy	Tolerance	Price	Eradication
< 1997	<			
1997 - 2007	<	<		
=> 2008	<	<	?	??

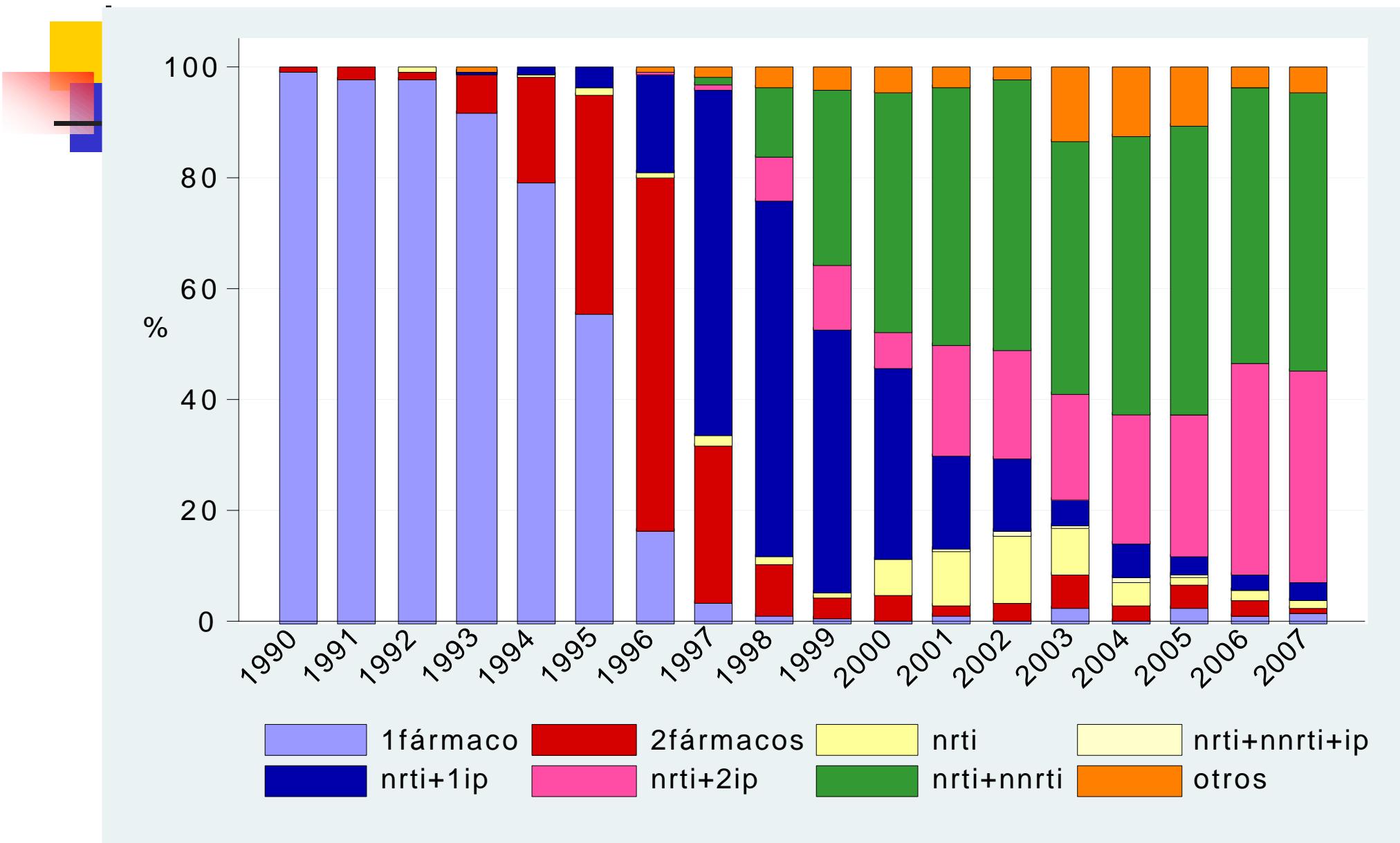
Cost.....

	Total*	? 2006	pat. -year#	? 2006
Clinic	24	18	7700	17
Ruti	15	15	7337	17
Bellvitge	9.5	11	6318	9

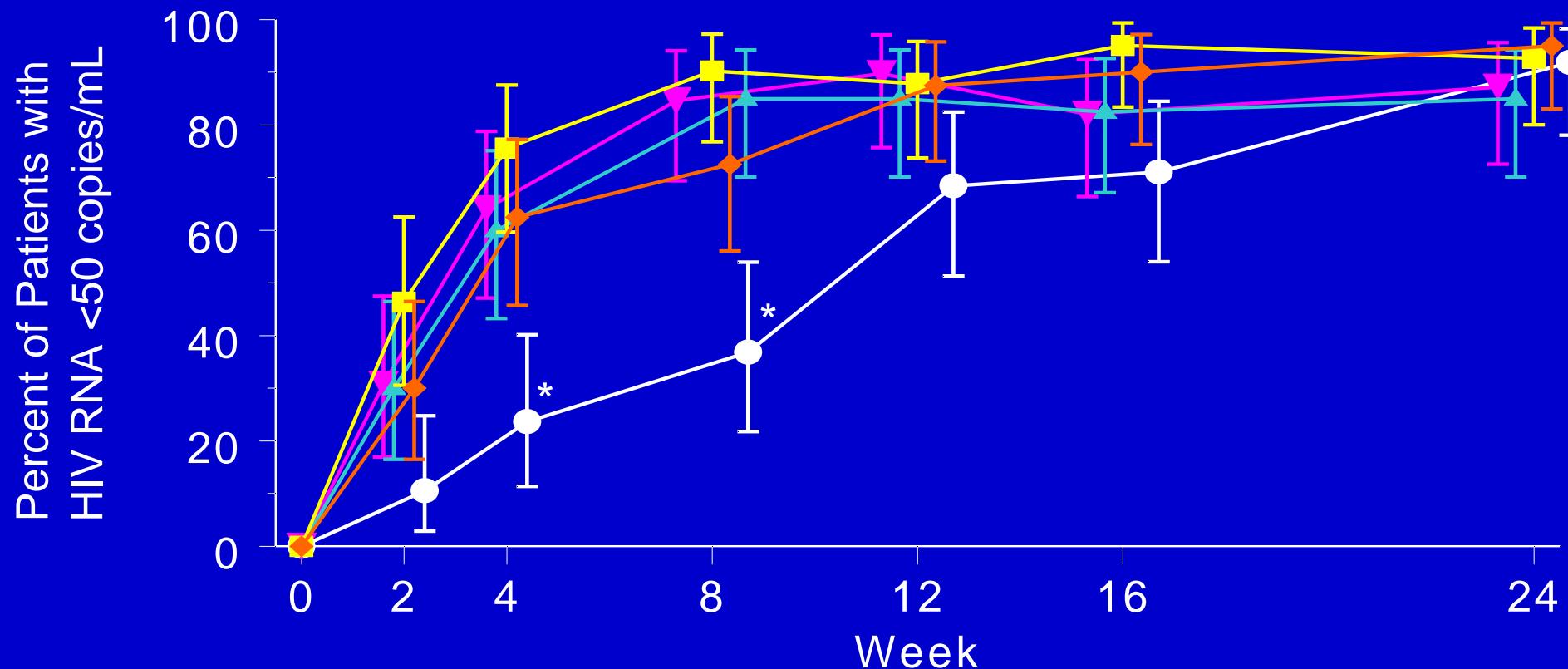
* Millions of euros; # thousands of euros

Distribución porcentual de las pautas de tratamiento de debut en cada año

% anual de pacientes que recibe una pauta determinada de debut
(sobre el total de pacientes que empiezan su primer tratamiento en cada año)



Protocol 004: Percent (95% CI) of Patients with HIV RNA < 50 copies/mL (NC=F)

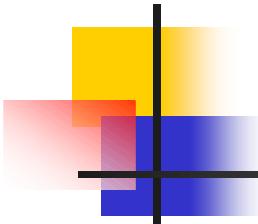


▼	MK-0518 100mg	39	39	39	39	39	39
▲	MK-0518 200mg	40	40	40	40	40	40
■	MK-0518 400mg	41	41	41	41	41	41
◆	MK-0518 600mg	40	40	40	40	40	40
●	Efavirenz	38	38	38	38	38	37

* P < 0.001 for MK-0518 at each dose vs. EFV

IAC 2006 Abs# THLB0214

Hospital Clinic. Barcelona. 2006



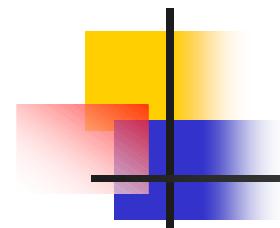
		<u>no.</u>	<u>%</u>
Initial therapy		383	12
Follow-up		2815	
No data		57	
< 200	copies	1971	60
200-10000	copies	405	12
> 10000	copies	382	10
Total		3298	100



HAART



No therapy



VL

100000

50

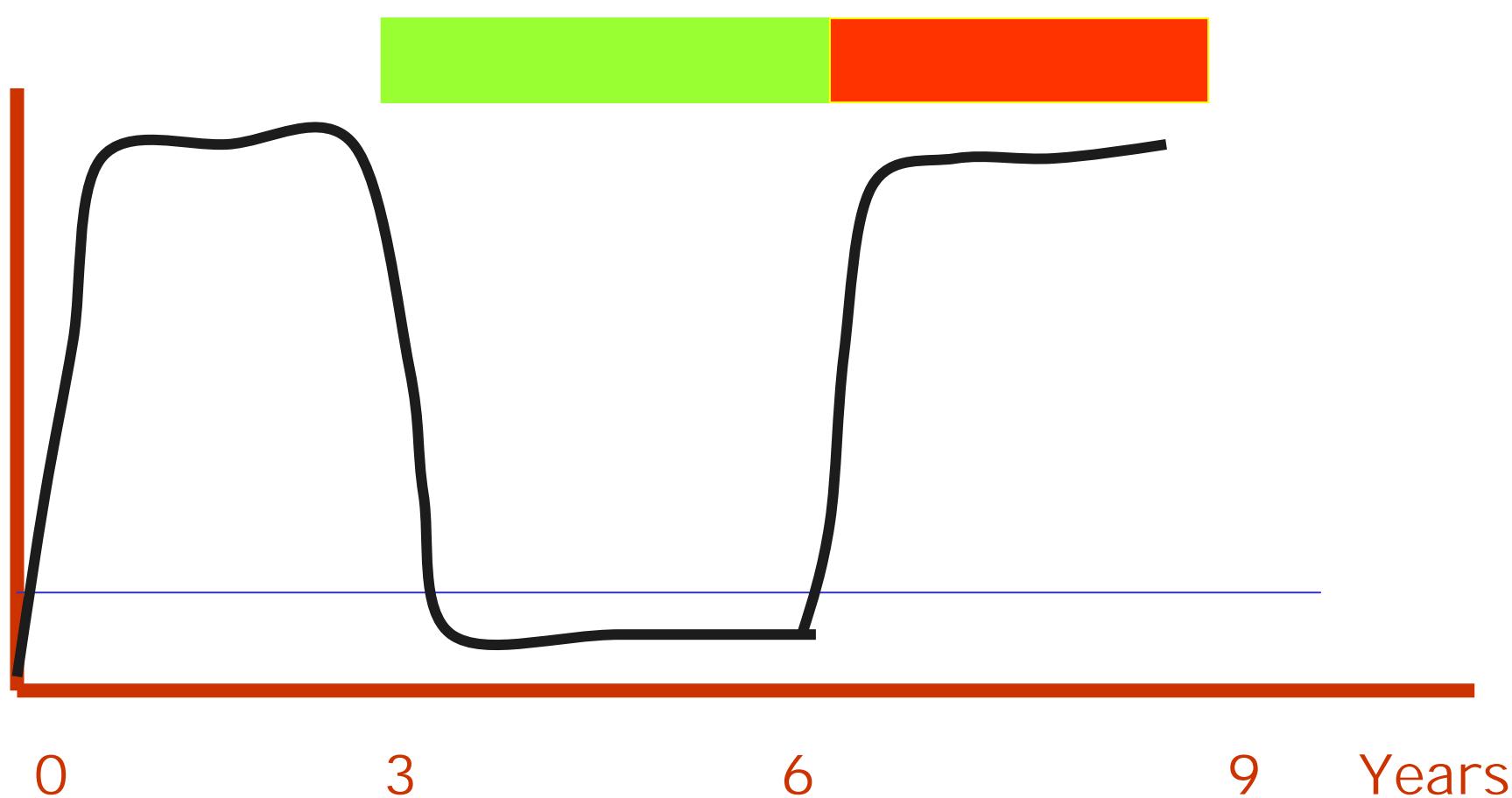
0

3

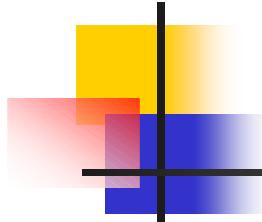
6

9

Years



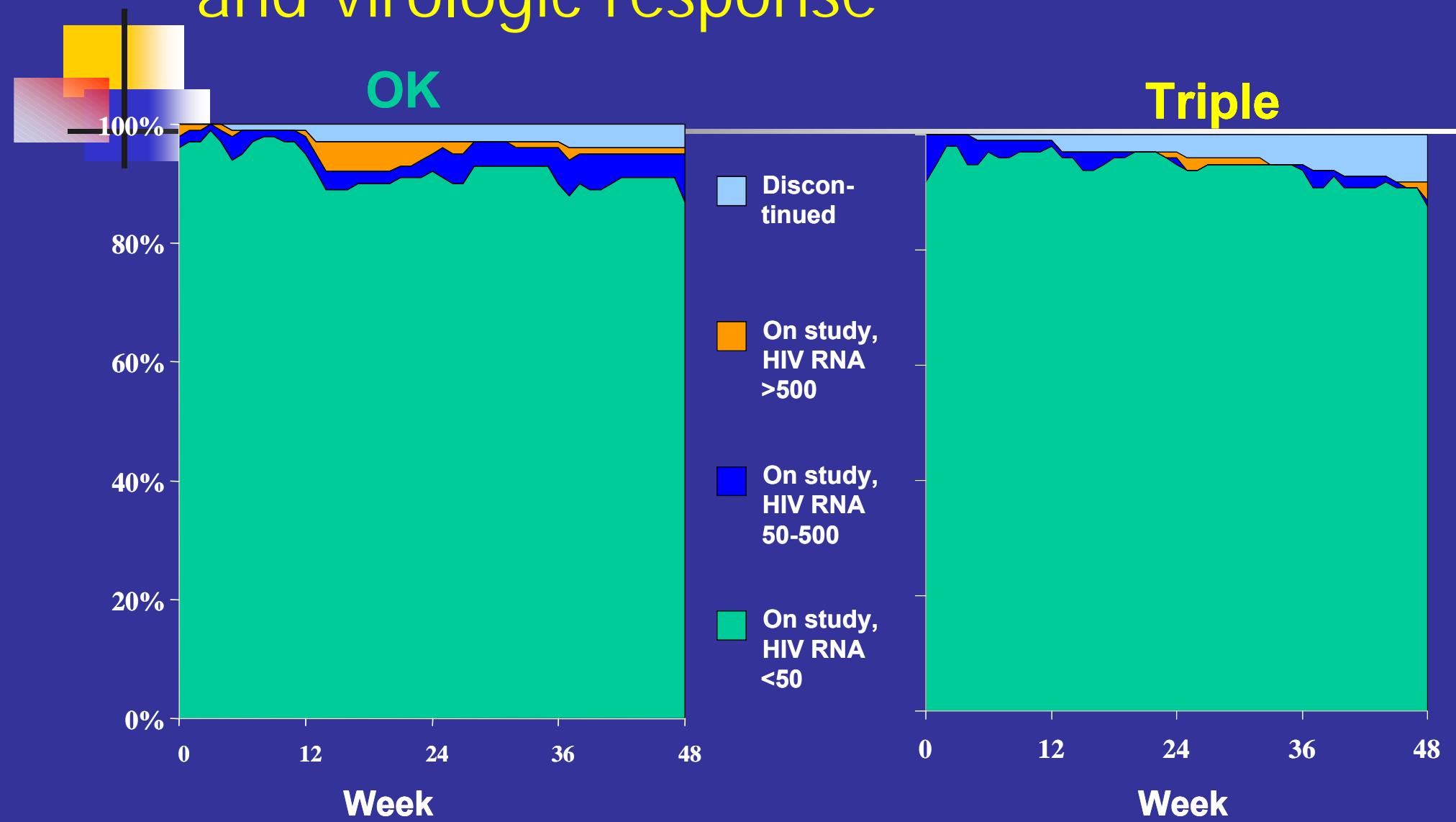
Controversies: 2008-10



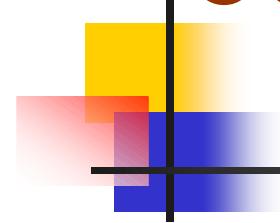
2. Treatment (simplification; induction / maintenance)

improve lipids, lipodystrophy
get rid of ritonavir
avoid minor side effects
class sparing regimens
monotherapy with PI/r

Point prevalence of discontinuations and virologic response



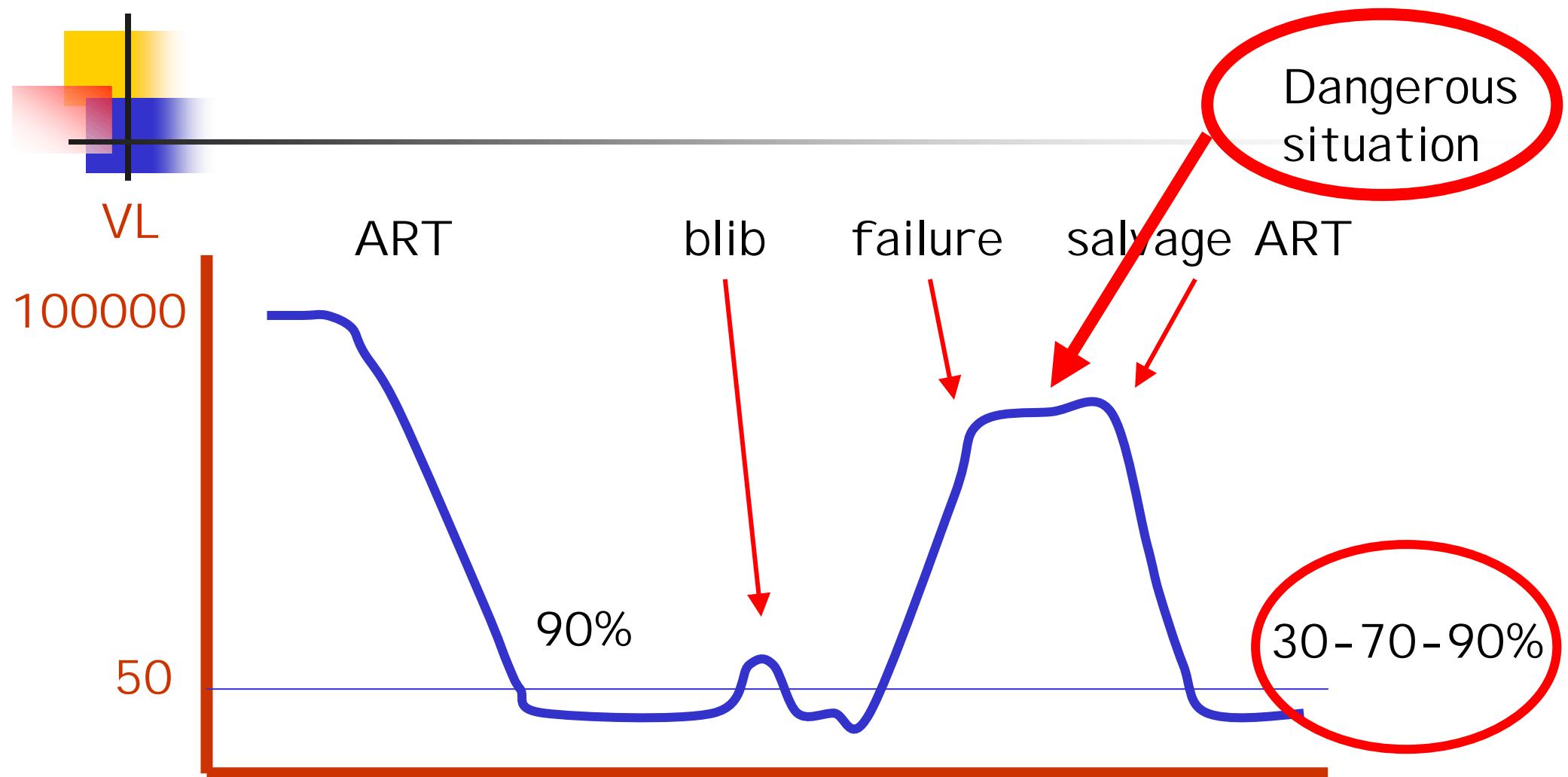
Controversies 2008-10



2. Treatment: salvage

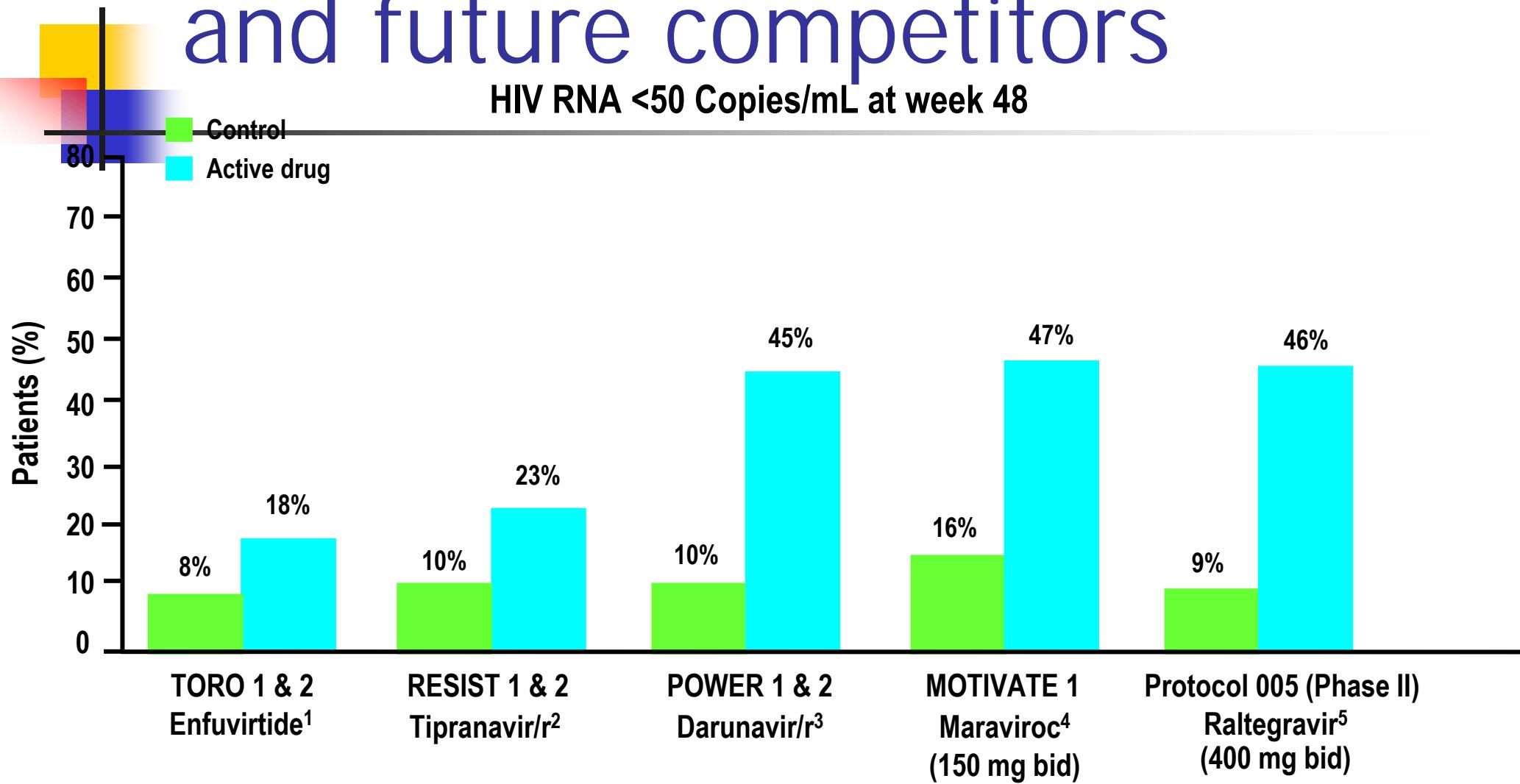
< 50 copies for all **||||**

SALVAGE ANTI RETROVIRAL THERAPY



Compelling data vs current and future competitors

HIV RNA <50 Copies/mL at week 48

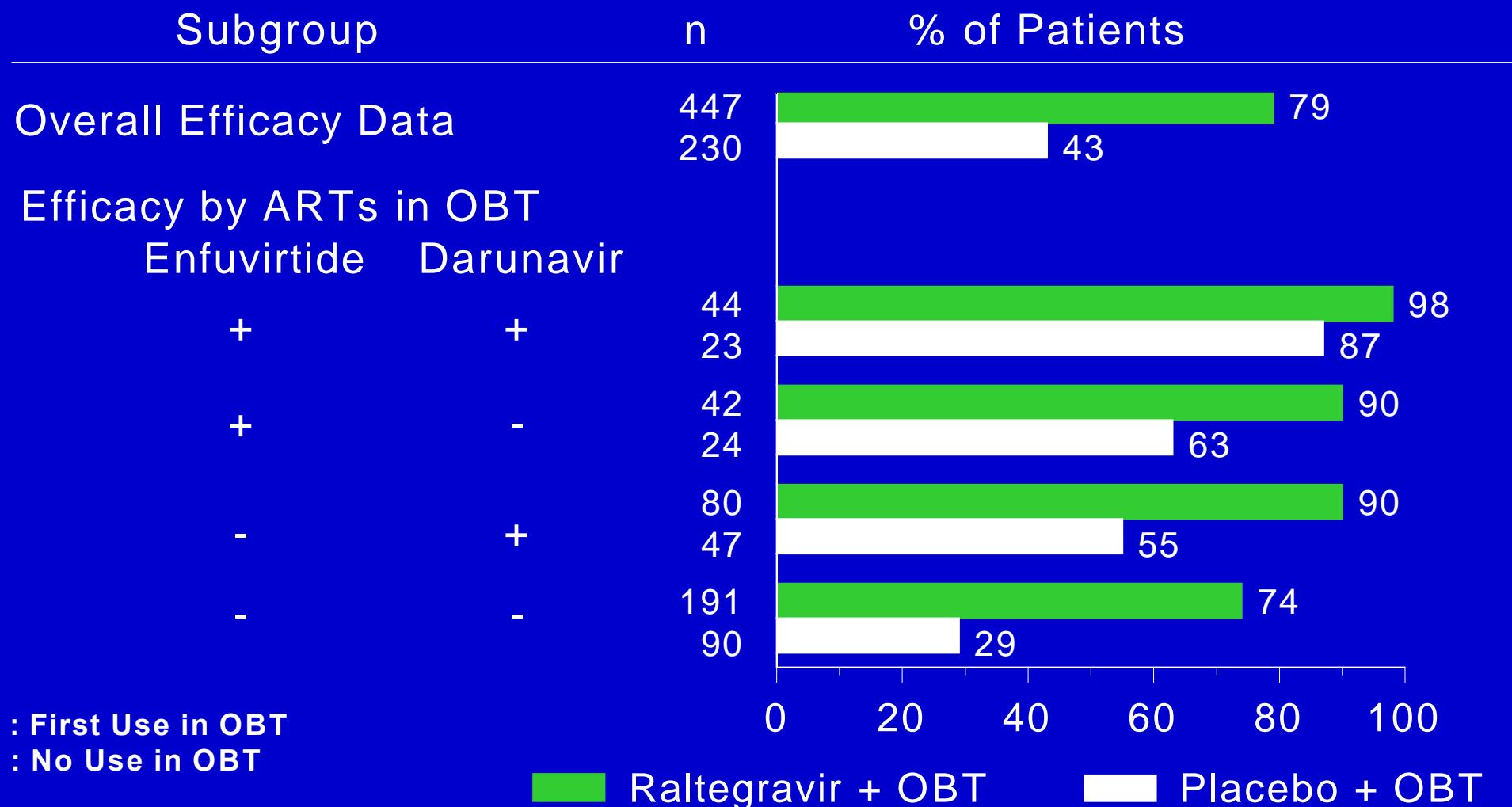


1. Nelson M, et al. JAIDS 2005;40:404-412; 2. Hicks CB, et al. Lancet 2006;368:466-475; 3. Clotet B, et al. Lancet 2007;369:1169-1178;

4. Lalezari J, et al. 47th ICAAC. Abstract H-718a; 5. Grinsztejn B, et al. 47th ICAAC. Abstract H-713

Combined Efficacy* (1) –

% Patients with HIV RNA < 400 copies/mL at Week 16 by Selected ARTs in OBT



* Virological failures carried forward

SALVAGE ANTI RETROVIRAL THERAPY

5. Failures to >=2 ART regimens

PI

Entry inh.

Integrase inh.

NNRTI

Lopinavir /r ?

T20 ???

Tipranavir/r ??

Darunavir /r

Maraviroc

Raltegravir

Etravirine

Controversies 2008-10

2. Treatment: efficacy / toxicity

genetic / biological screening ?

MRP2&4 TDF

CYP2B6 EFA, NEV

HLA hypersensitivity ABA, NEV

UGT bilirubin ATA

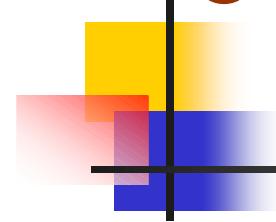
Hyperlipidemia, lipodystrophy

CCR5 tropism

REPUBLIQUE du SENEGAL
MINISTERE DE LA SANTE
REGION MEDICALE DE LOUIS
DISTRICT SANITAIRE DE R^e TOLL
CENTRE DE SANTE DE R^e TOLL BP 30
TEL 963.31.01.
FAX 963.33.66.



Controversies 2008-10



2. Treatment (resource poor settings)

reasonable good results

scale-up

2nd line therapies (TNF, FTC, Aluvia)

how to monitor response

Future controversies 2008-10

1. Prevention

Classical plus non-classical methods (circumcision)

2. Treatment

Role of new drugs in naive patients ?

Most patients are virologically suppressed.

Role of simplification ?

Goal of salvage therapy is < 50 copies/ml

3. General medical care in "old" patients

4. Supportive measures: mental health, nutrition...



