

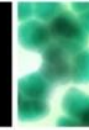


CHIP
COPENHAGEN HIV PROGRAMME



TB:HIV

an international prospective
observational study



Organisation and delivery of healthcare for HIV/TB coinfecting patients in Europe

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Lundgren, A Matteelli, FA Post, O Kirk, DN Podlekareva,
and the TB:HIV study in EuroCoord

The 14th European AIDS Conference 2013

Background

TB/HIV coinfecting patients in Eastern Europe:

- Mortality rate one of the worlds highest
- Mortality rate 3-5 fold higher than in Western Europe
- Majority of deaths are TB-related

Regional differences in mortality across Europe can **only partially** be explained by factors such as:

- MDR TB, IDU, use of non-RHZ based regimens, non-use of cART, low CD4 cell count



Objective

- To analyse differences in the **organisation** and **availability** of **TB/HIV healthcare** and **medicines** across hospitals in Eastern Europe and Western Europe

Methods

- Cross sectional design
- Self-reported survey (online)
- All European HIV and TB hospitals/clinics within the TB:HIV study* invited to complete the questionnaire, Spring 2013
- Questions related to the organisation and availability of HIV and TB healthcare, medicines and the clinical management strategies for TB/HIV coinfecting patients
- Descriptive statistics performed for comparisons between Eastern and Western Europe
- Two sided Fisher exact test for association

*Tuberculosis among HIV-positive Patients: an International Prospective Observational study:
www.chip.dk

Results

Response rate = 85%

41 out of 48 European hospitals/clinics responded
(treating > 1000 TB/HIV coinfecting patients)

Clinics/hospitals responding:

- Eastern Europe (20)

Belarus (5), Estonia(1), Georgia(1), Latvia(2), Lithuania(1); Poland(4), Romania(1), Russia(4), Ukraine(1)

- Western Europe (21)

Belgium(1), Denmark(1), France(1), Italy(7), Spain(2), Switzerland(1), UK(8)

Non-responding clinics/hospitals:

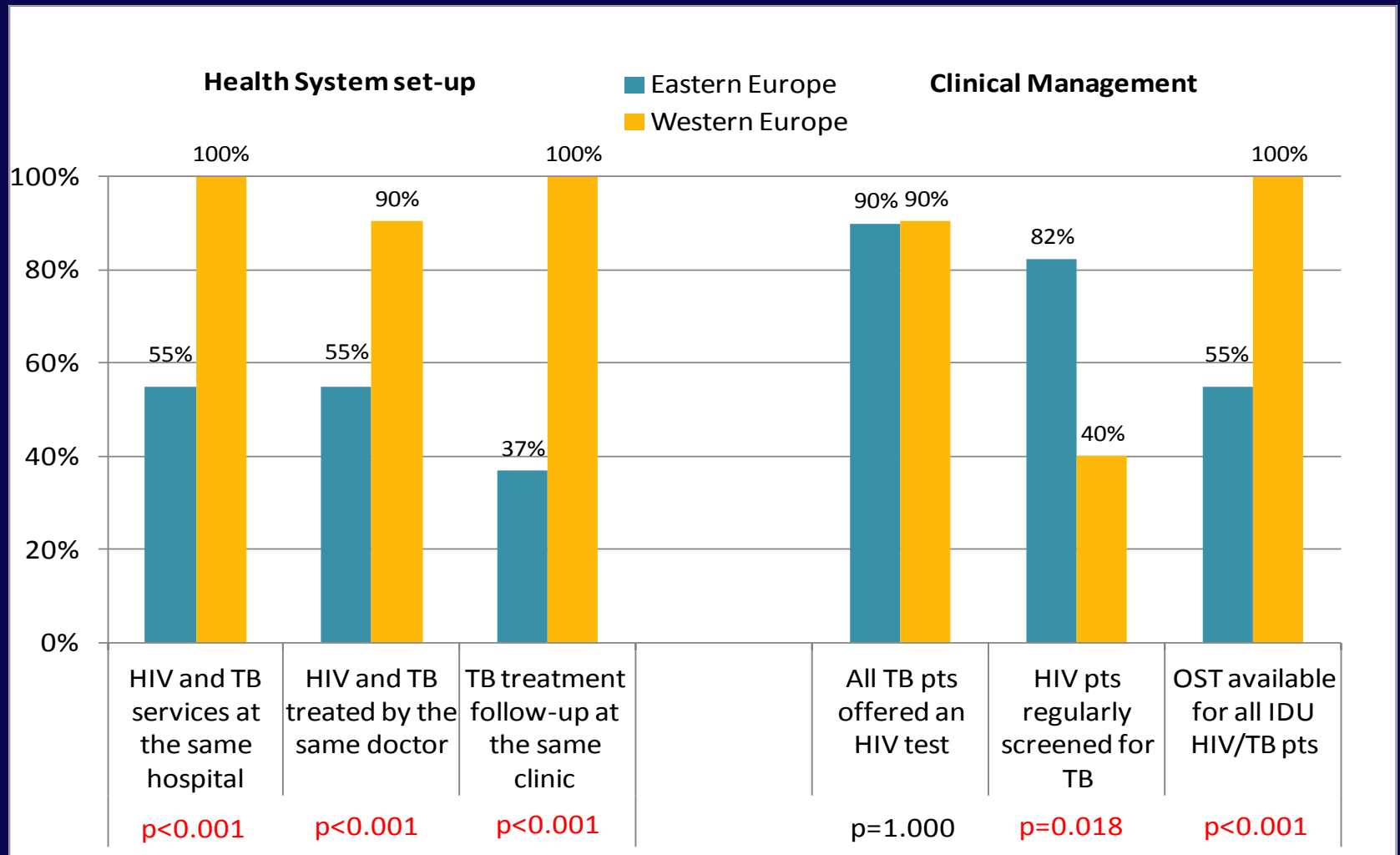
- Eastern Europe (4)

Belarus (1), Georgia (1), Russia (2)

- Western Europe (3)

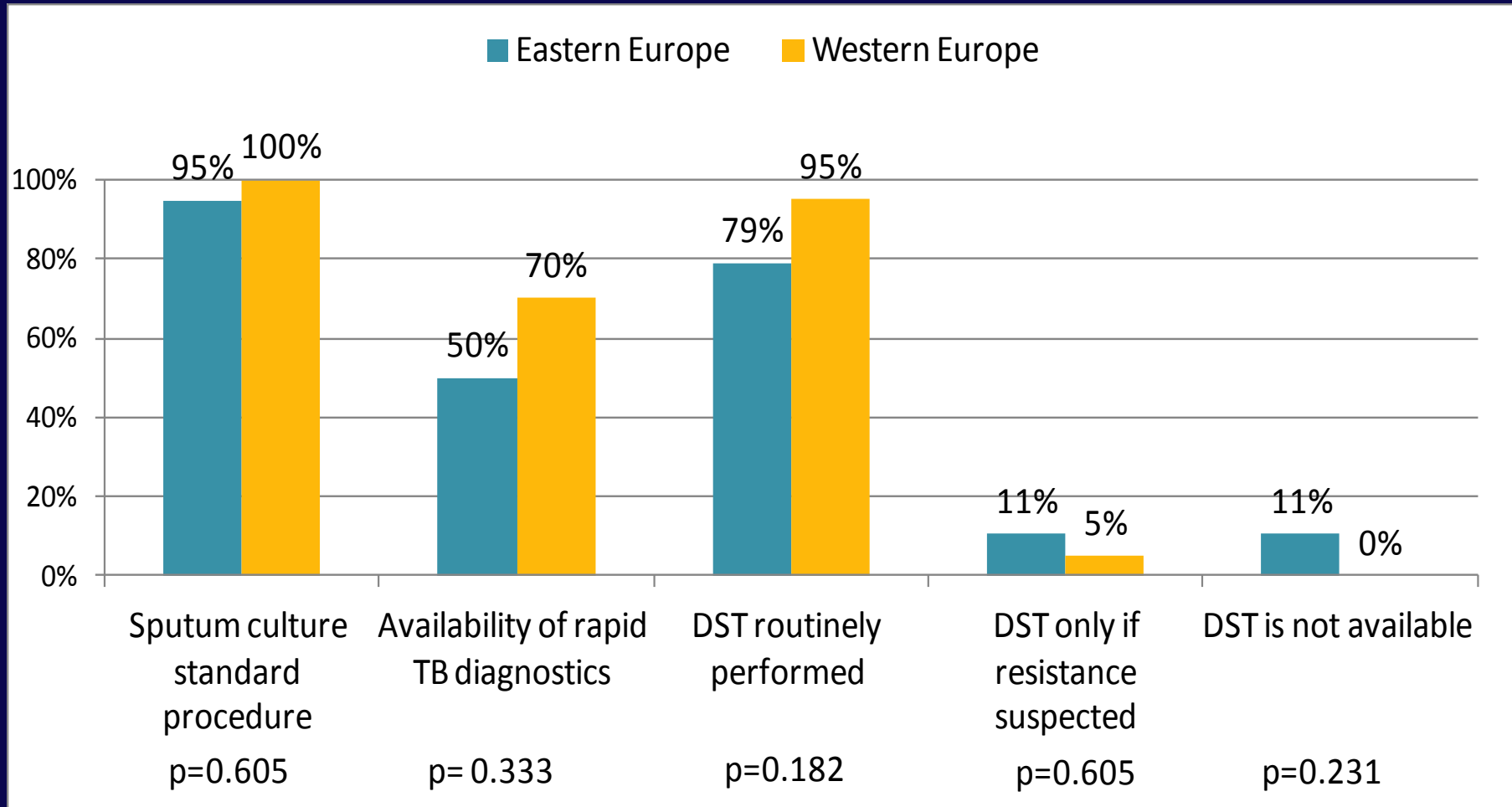
Spain (2), UK(1)

Reported health system organisation and integration of care aspects



OST – opiate substitution therapy; IDU – injecting drug use

Reported clinical management strategies TB diagnostic procedures



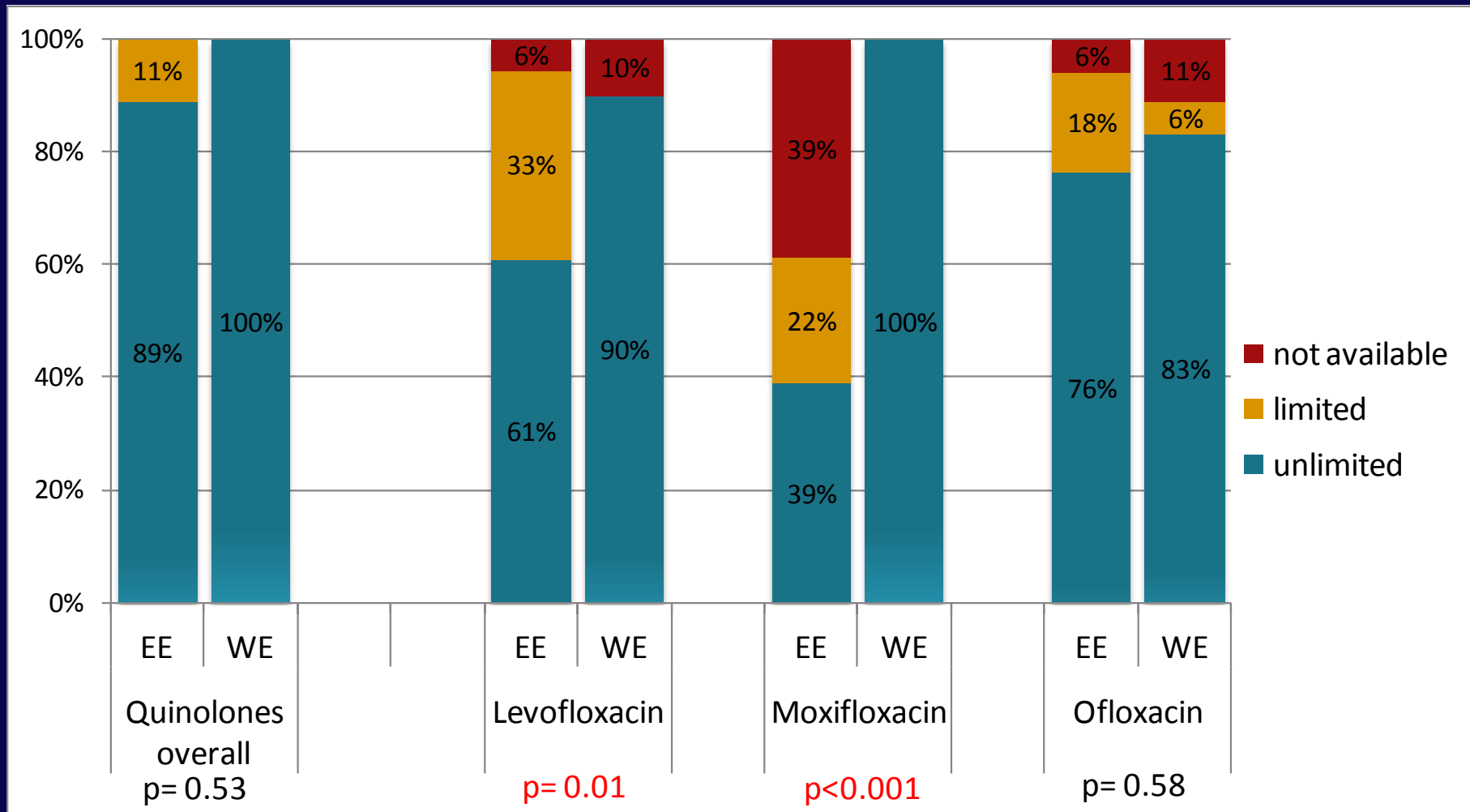
DST= drug susceptibility testing

Reported clinical management strategies Anti-TB therapy for TB/HIV patients

	EE	WE	p [†]
Use DOT minimum for intensive phase of TB therapy for all patients	94% (16/17)	20% (4/20)	<0.001**
Rifampicin generally used as part of the initial anti-TB treatment	100% (19/19)	100% (20/20)	1.000
2RHZE + 4RH Standard TB treatment for TB/HIV patients	75% (14/19)	95% (19/20)	0.091
2RHZE + 7RH Standard TB treatment for TB/HIV patients	16% (3/19)	5% (1/20)	0.341
Rifabutin available unlimited	17% (3/18)	95% (19/20)	<0.001**

† Two sided Fisher exact test for association; 2RHZE = 2 months of rifampicin, isoniazid, pyrazinamide, ethambutol
4RH= 4 months of rifampicin, isoniazid; 7RH= 7 months of rifampicin, isoniazid

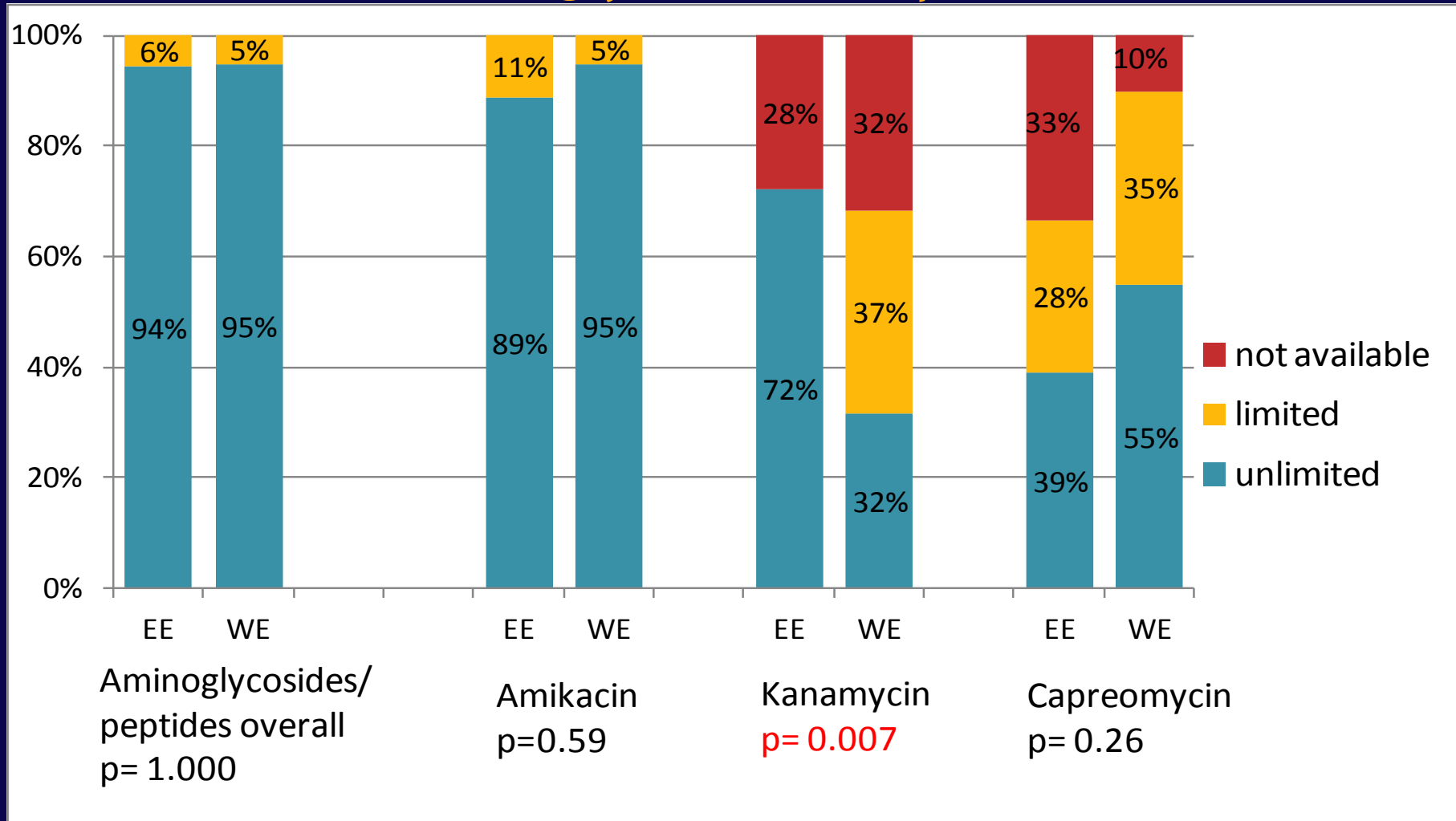
Reported access to 2nd line anti-TB drugs Quinolones



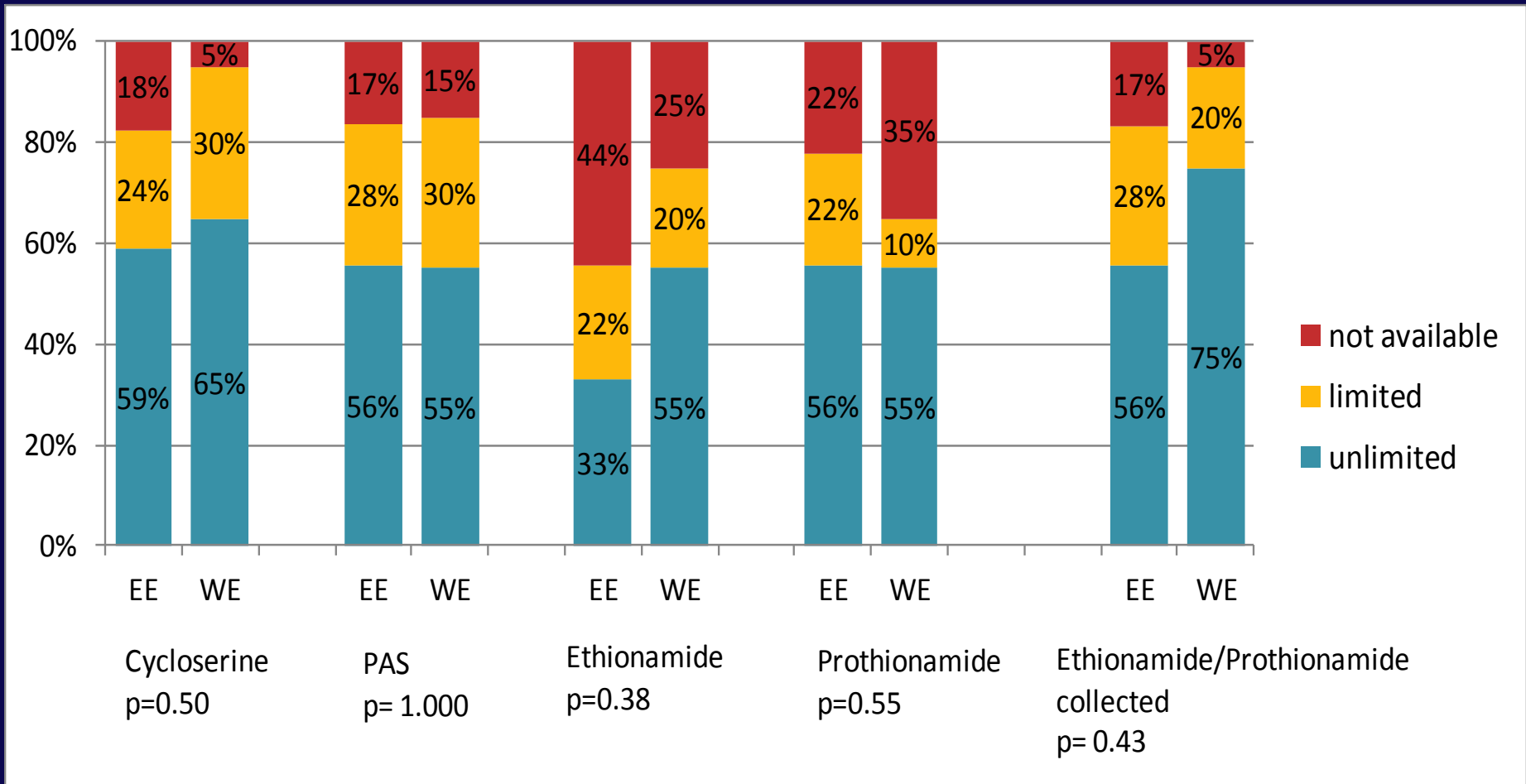
EE= Eastern Europe; WE= Western Europe

Reported access to 2nd line anti-TB drugs II

Aminoglycosides/Peptides

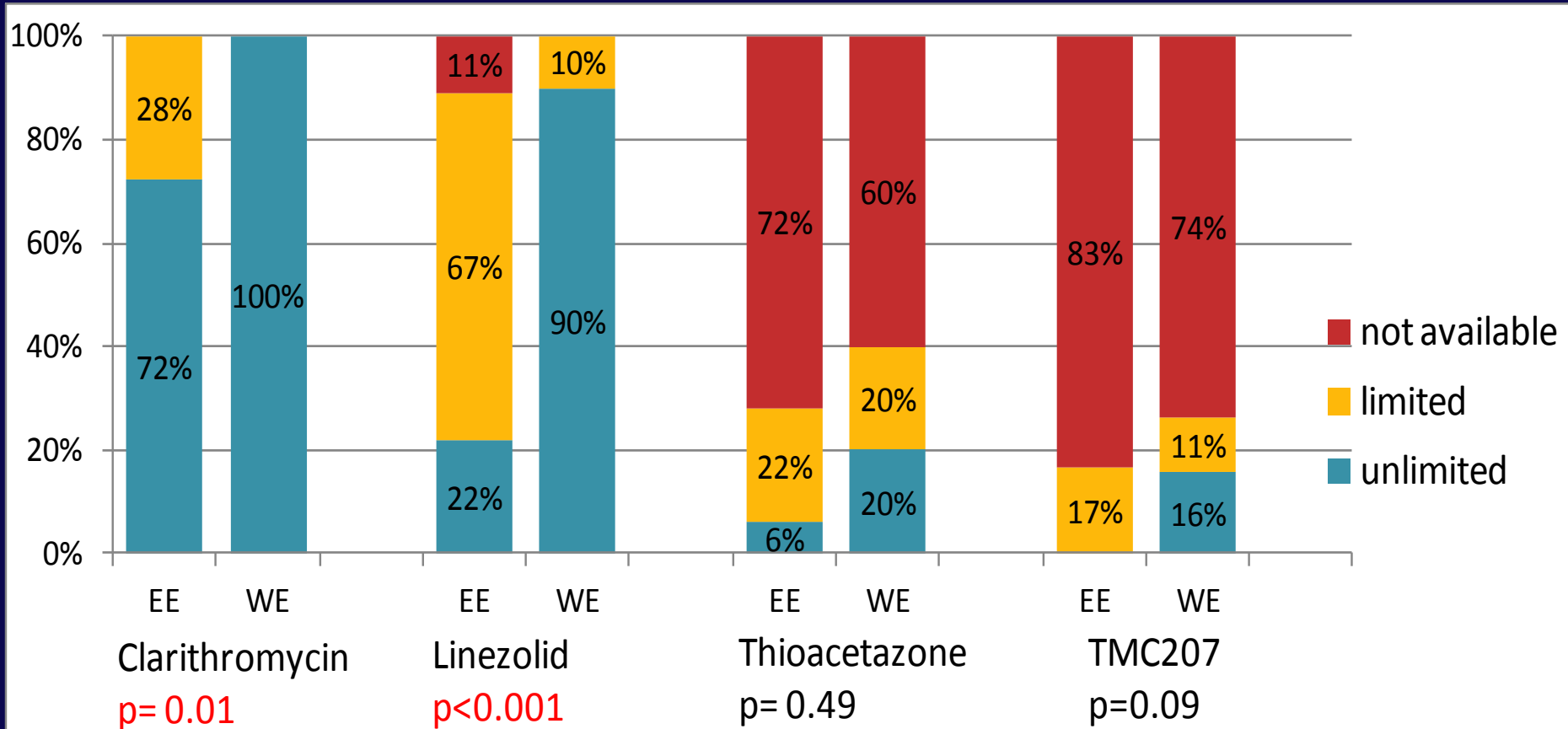


Reported access to 2nd line anti-TB drugs III



PAS = p-aminosalicylic acid

Reported access to 3rd line anti-TB drugs



Results

- Indication of intra-regional and intra-country variation!

Limitations

- Bias: self-reported questionnaire and not observed practice
- Small sample size (41 clinics/hospitals)
- Hospitals/clinics enrolled are not necessarily representative of Europe (major HIV and TB centres of excellence)
- Representation proportionally larger from Italy and UK in Western Europe, and Russia & Belarus in Eastern Europe
- Not adjusted for multiple comparisons

Summary

Compared to Western European hospitals,
Eastern European hospitals in general reported:

- A more fragmented healthcare system
- Higher levels of directly observed treatment (DOT) of all TB patients
- Less access to opiate substitution therapy (OST)
- Less access to Rifabutin
- Less access to specific 2nd and 3rd line anti-TB drugs

Perspectives

In Eastern Europe, with the highest need for decreasing mortality and limiting MDR/XDR TB:

- Health system set-ups are to a less degree facilitating **patient-centred care**
- **Access to appropriate medicines** (anti-TB drugs, OST) is lower

Future studies

- Impact of the observed differences on patient outcomes including excess mortality?
- Changes over time?

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TB:HIV study group:

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