

Optimizing Rotavirus schedules: what are the key questions for today's session?

Paul Fine, LSHTM

QUESTIONS

1

What rotavirus vaccine schedules does the evidence favor for children in different WHO mortality strata?

of doses

age at each dose

interval between doses

co-administration with other vaccines

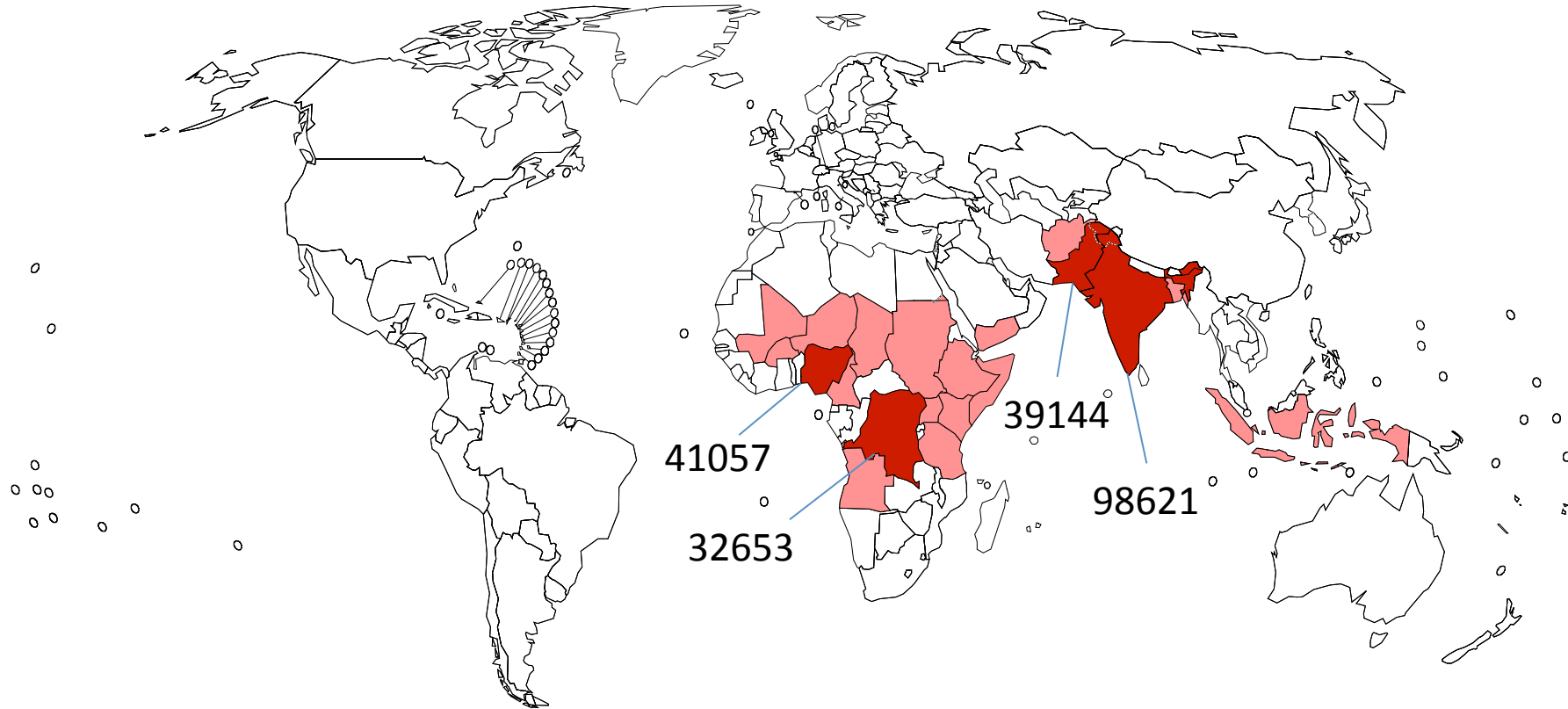
2

What evidence is available on the estimated benefits & potential risks of the current & alternative RV schedules?

Current recommended Rotavirus immunization schedule, 2009

Vaccine	Age at 1st dose	No. Doses	Interval 1st to 2 nd dose	Interval 2nd to 3 rd dose
Rotarix RV1	6 weeks (min) with DTP1 15 weeks (max)	2	4 weeks (min) with DTP2 No later than 32 weeks of age	
Rota Teq RV5	6 weeks (min) with DTP1 15 weeks (max)	3	4 weeks (min) with DTP2	4 weeks (min) with DTP3 No later than 32 weeks of age

WHO estimates that **453 000** child deaths occurred during 2008 due to rotavirus infection



82% of these deaths occurred in **20** countries

36 countries have introduced Rotavirus Vaccine by 2012

Europe:

Austria 2006
Belgium 2007
Finland 2009
Israel
Latvia
Luxembourg 2006
Moldova

Americas:

Bolivia 2008
Brazil 2006
Colombia 2009
Ecuador 2007
El Salvador 2006
Guatemala 2010
Guyana 2010
Honduras 2009
Mexico 2007
Nicaragua 2006
Panama 2006
Paraguay 2009
Peru 2009
United States 2006
Venezuela 2006

Africa:

Chad 2012
DRC 2012
Rwanda 2012
South Africa 2009
The Sudan 2011
Zimbabwe 2012

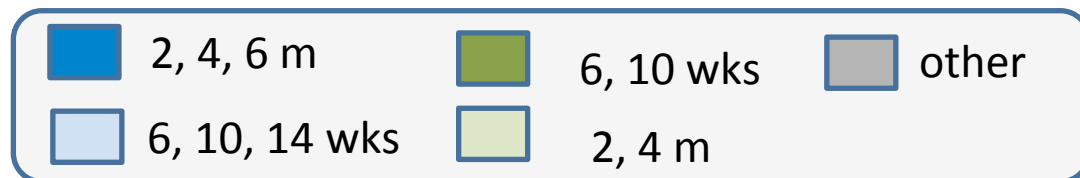
Eastern

Mediterranean:

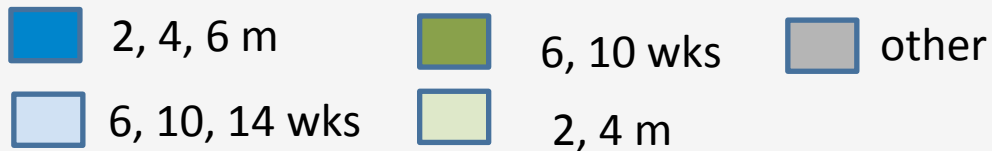
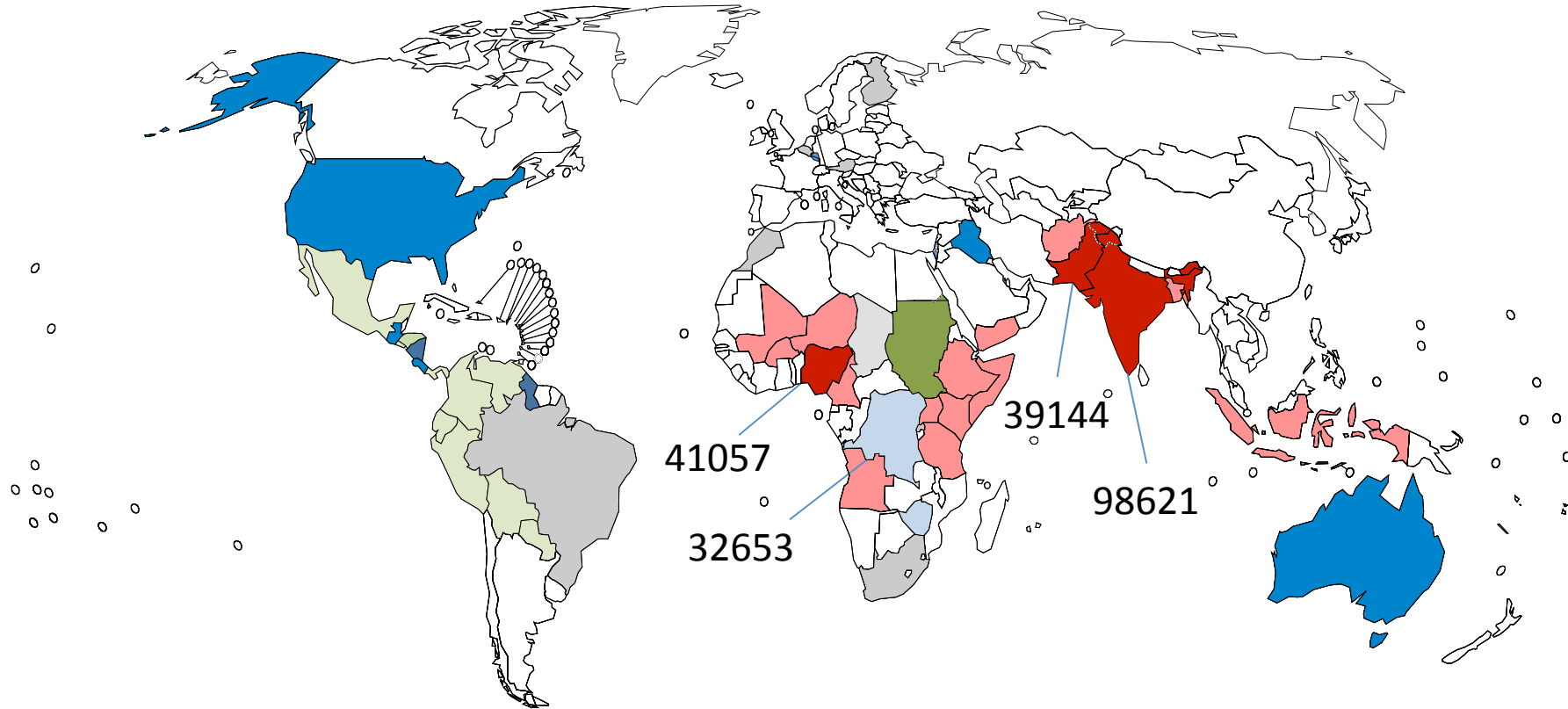
Bahrain 2008
Iraq 2012
Morocco 2010
Qatar 2009

Western Pacific:

Australia 2007
Marshall Islands 2009
Micronesia 2008
Niue
Palau 2008



4/20 countries contributing to 82% of rotavirus deaths have introduced rotavirus vaccine



Countries with data on vaccine efficacy/ effectiveness and rota epidemiology

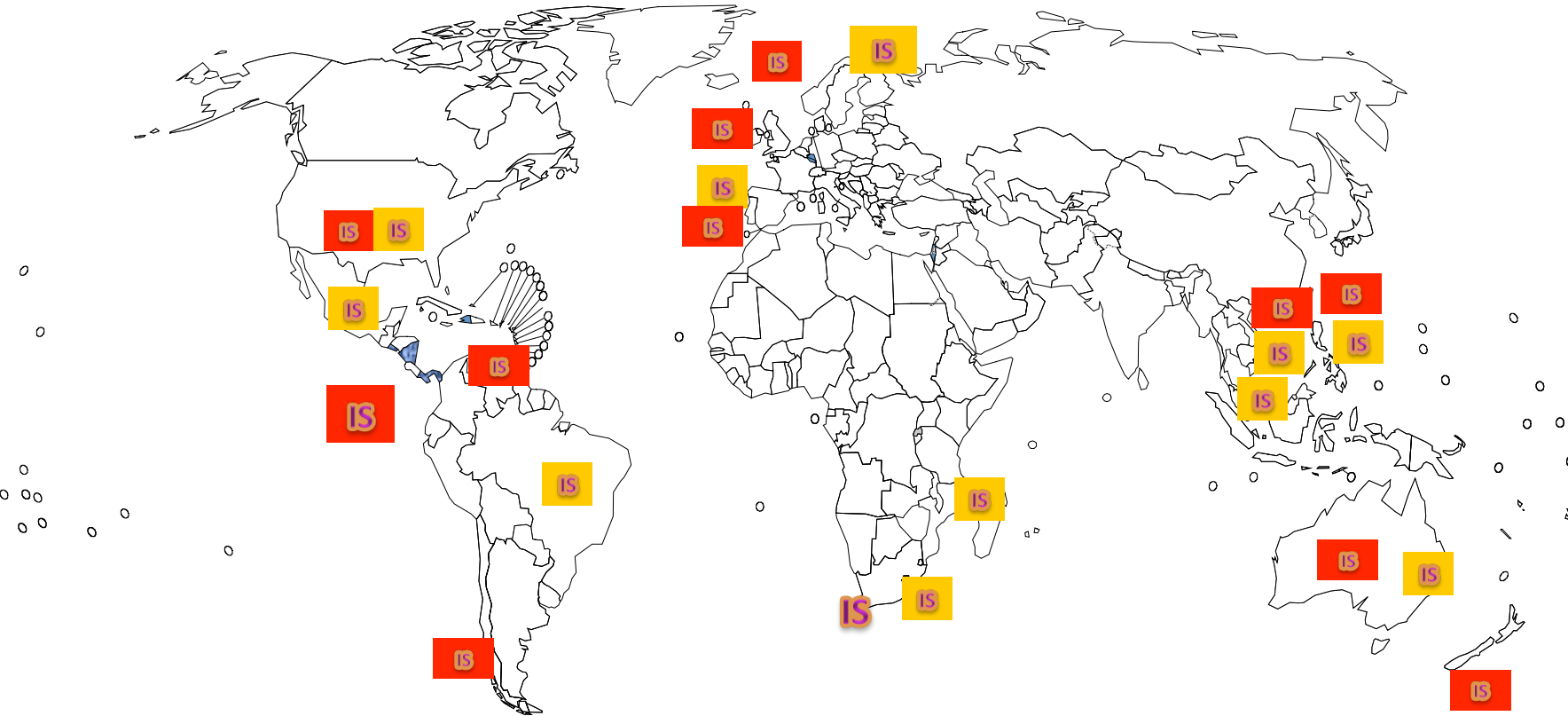


Vaccine efficacy/effectiveness



Rotavirus epidemiology

Countries with data on intussusception



IS background rates



IS associated rates

ACKNOWLEDGEMENTS

