Epidemics:

What are relevant for health practitioners / clincal researchers

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The ICU-the canary in the coal mine



The ICU-the canary in the coal mine

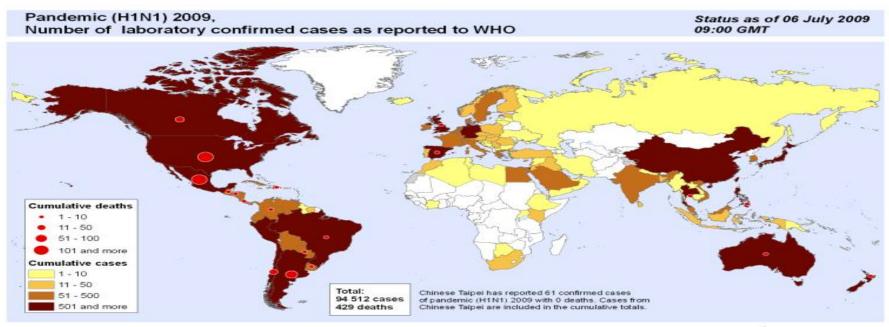


- High mortality, significant morbidity and disability in survivors
- Cost of care is significant
- Opportunity for research to improve outcomes

A clinicians view of epidemic's

- Infectious diseases with epidemic potential
 - Acute respiratory tract infection,
 - Central nervous system infection,
 - Haemorrhagic fevers
 - Severe diarrhoea, and
 - Severe undifferentiated fevers.

Remembering 2009



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

Map produced: 06 July 2009 09:00 GMT

Data Source: World Health Organization Map Production: Publis Health Information and Geographic Information Systems (GIS) World Health Organization







Acute Respiratory Distress Syndrome (ARDS)





Clinical care considerations

- Informed consent
- Vulnerable populations
- Standard of care
- Allocating access to scarce resources
- Emergency use of unproven interventions
- Procedural considerations and communication plans
- HCW rights and obligations

Clinical research considerations

Observational study difficult

The NEW ENGLAND
JOURNAL of MEDICINE

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NOVEMBER 12, 2009

WOL 261 NO 20

Critical Care Services and 2009 H1N1 Influenza in Australia and New Zealand

The ANZIC Influenza Investigators*



Clinical research considerations

- Observational study difficult
 - Clinical work load



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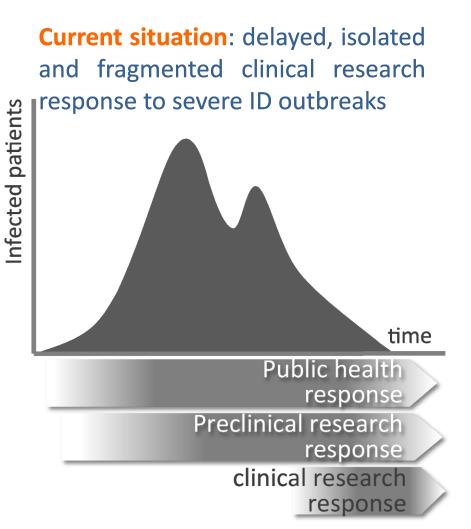
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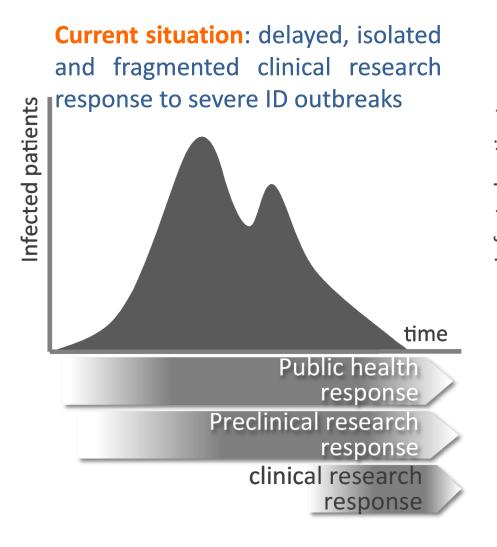
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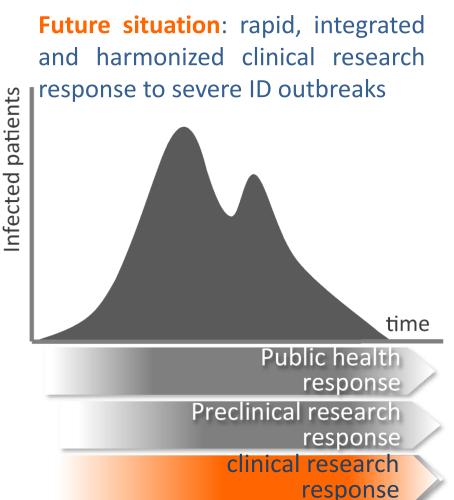
Critical Care Services and 2009 H1N1 Influenza in Australia and New Zealand



- Interventional study impossible
 - Ethical approvals
 - IMP approvals
 - Contracts / Funding / Indemnity
 - Novel designs







ISARIC / PREPARE













WP 1
EARL
Ethical, Administrative,
Regulatory and
Logistical aspects of
PREPARE
Alistair Nichol
Chris Butler
Steve Webb











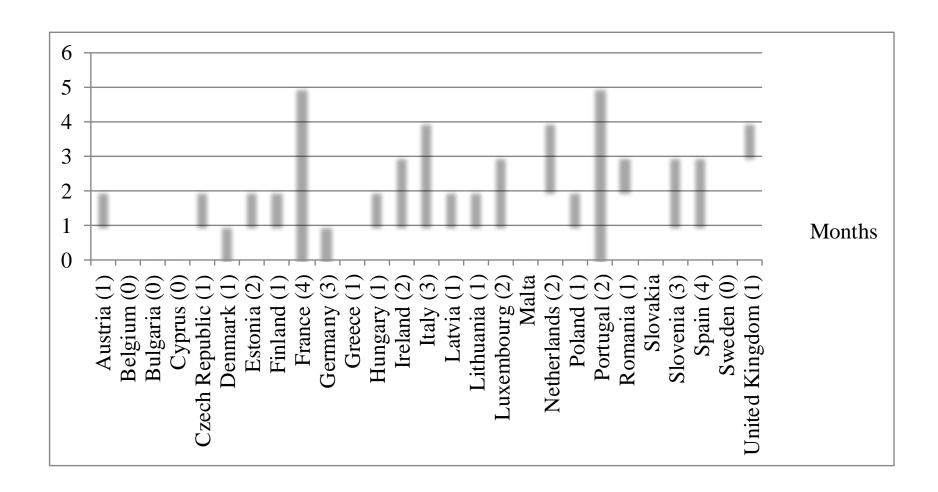
Overarching aim of WP 1

 To identify and provide solutions to key structural (ethical, administrative, regulatory and logistical) bottlenecks as well as behavioural and cultural barriers to the rapid implementation of large multi-site clinical studies in Europe in response to severe ID outbreaks





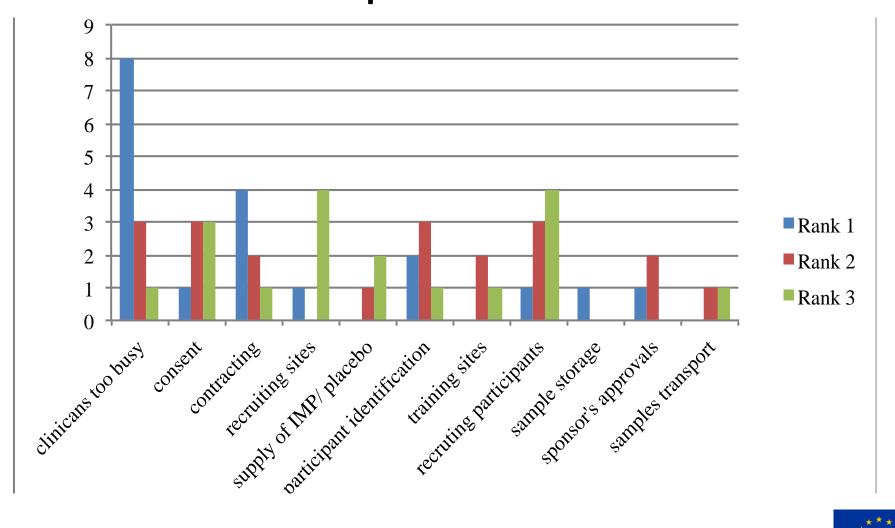
Time for ethical approvals







Barriers to research during epidemic















PREPARE
EARL: WP1

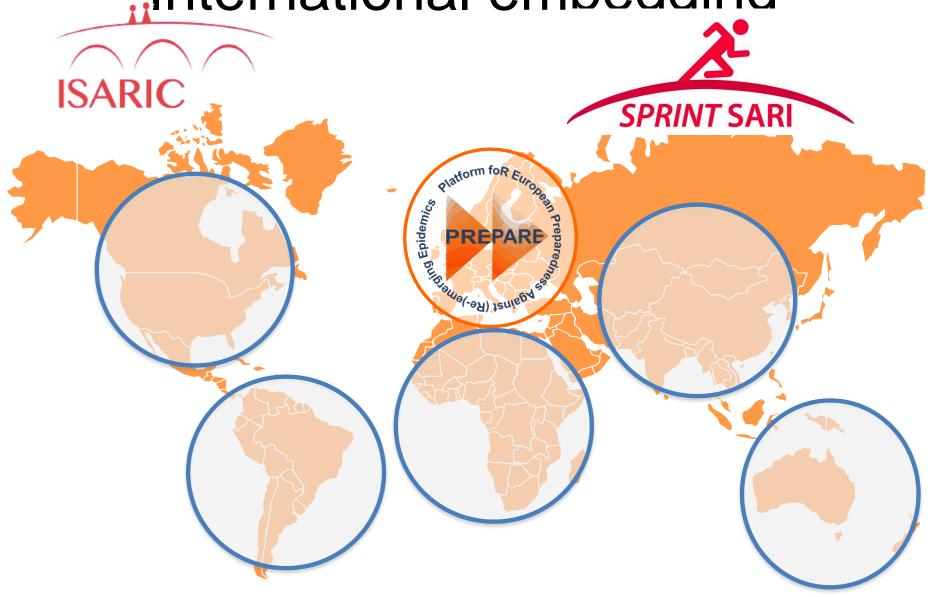
Ethical, Administrative,
Regulatory and Logistical
solutions

Short term solutions First Report

EARL

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International embedding



THOUGHTS?



