

Platform for European Preparedness Against [Re-]emerging Epidemics

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For further information on PREPARE, please visit our website

www.prepare-europe.eu



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We have a moral obligation to learn lessons from past outbreaks and ensure that essential preparedness capabilities are in place.

Herman Goossens, PREPARE Coordinator



The Platform for European Preparedness Against (Re-)emerging Epidemics (PREPARE) is an EU funded clinical research network that aims to build Europe's capacity for rapid clinical research responses to severe ID outbreaks with epidemic potential, specifically by initiating large-scale pan-European clinical research studies.

Clinical research initiated in response to severe infectious disease outbreaks is typically delayed, isolated and fragmented and has little to no impact on informing clinical management strategies and improving patient outcomes. PREPARE is designed to speed up the time to deliver clinical research in the event of a severe infectious disease epidemic that threatens the health and security of the European public.

During inter epidemic periods, PREPARE conducts pan-European, multi-site, clinical research across Europe. In this way, the PREPARE network remains active, practiced and ready to re-orientate its activities in the event of an epidemic scenario.

If there is a threat to Europe of a (re-) emerging severe ID outbreak, epidemic or pandemic, PREPARE can be triggered to respond. A response mode will be activated dependent on the threat presented by the infectious disease outbreak: mode 1 for a limited threat, mode 2 for a potential threat, mode 3 for an immediate threat (see Figure below).

1 Outbreak Research Preparation Mode

- Assessing operational readiness in the networks;
- Identifying important
- knowledge and resource gaps
- Preparing clinical protocols

2 Outbreak Research Mobilisation Mode

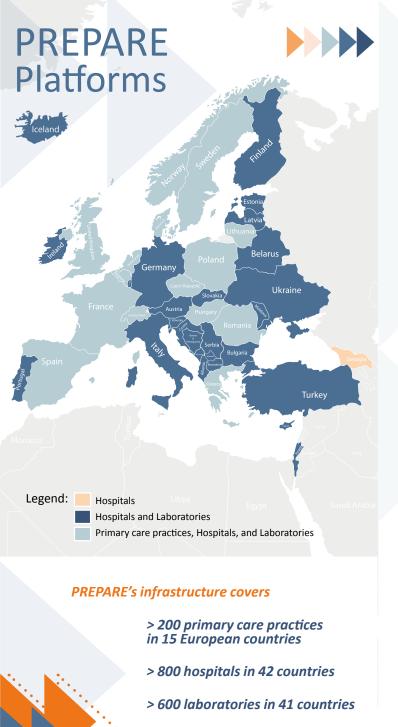
Planning and implementing preparatory work necessary to achieve operational readiness in the networks to initiate a clinical research response to specific ID outbreak if and when needed.

3 Outbreak Research Response Mode



Implementing clinical research projects in the networks tailored to the specific ID outbreak, and addressing the most important and urgent clinical research questions.

Figure: PREPARE's Outbreak Research Modes



PREPARE's Clinical Studies

During inter-epidemic periods, PREPARE carries out preparedness research activities in the form of three observational studies and two adaptive platform design studies.

Observational studies



Multi-centre EuRopean study of MAjor Infectious
Disease Syndromes (MERMAIDS) comprises of three
observational studies:

- MERMAIDS-ARI: Acute Respiratory Infections (ARI) in adults are admitted to hospital or presenting in primary care with symptoms of a recent acute respiratory infection.
- MERMAIDS-PED: Sepsis-like syndrome in infants and ARI in children are admitted to hospital care with an episode of community-acquired sepsis-like syndrome or ARI.
- MERMAIDS-ARBO: Arboviral compatible febrile illness.
 Adults aged 18 and above admitted to hospital with symptoms compatible with arboviral febrile illness.

Adaptive platform design studies



 Antivirals for influenza like illness?
 An rCt of Clinical and Cost effectiveness in primary CarE (ALIC4E)

A European multi-centre platform, responsive-adaptive, randomised controlled interventional trial on influenza like illness.



2. Randomized, Embedded, Multifactorial, Adaptive Platform

trial for Community-Acquired Pneumonia (REMAP-CAP)

A global adaptive randomised controlled trial to improve survival in ICU-admitted patients with severe community acquired pneumonia.

PREPARE Partners



University of Antwerp VAXINFECTIO, Laboratory of Medical Microbiology - Antwerp, Belgium



University of Oxford Clinical Research Unit Oxford, United Kingdom





ERS - European Respiratory Society Lausanne, Switzerland



Academic Medical Center Department of Medical Microbiology Amsterdam, The Netherlands

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CAPNETZ Stiftung Hannover, Germany



Biomax Informatics AG Knowledge Management and Data Mining - Planegg, Germany



WONCA - World Organization of National Colleges, Academies and Academic Associations of General Practitioners/ Family Physicians Copenhagen, Denmark



University of Cardiff Primary Care & Public Health Cardiff, United Kingdom



SERGAS-Hospital Clinico Universitario de Santiago Pediatrics Department Santiago de Compostela, Spain



Janssen Diagnostics Beerse, Belgium



FSWI mensummana anana

ESWI - European Scientific Working group on Influenza Laarne, Belgium



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