



A PR³ Challenge

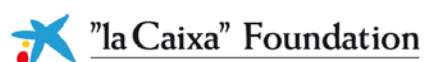
Preparedness and response in the era
of systemic environment and health crises

An ISGlobal Workshop

MAY 5 - 6, 2022
BARCELONA, MADRID AND ONLINE

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BACKGROUND AND PURPOSE OF THIS WORKSHOP

The global crisis posed by the COVID-19 pandemic has had **major impacts in all areas** of our lives, ranging from the direct effect of the SARS-CoV-2 infection on COVID morbidity and mortality to indirect effects of the pandemic on the health and well-being of populations across the globe, the health system, economy, societies, and education.

History has shown us that our health and well-being can also be affected by a variety of other hazards, including natural disasters, chemical, radiological and physical hazards, and biological hazards (epidemics and pandemics, emerging infectious diseases (EIDs) and bioterrorism). The **key lesson from COVID-19**, and this is a lesson we learned previously from nuclear accidents^{1,2}, is the need to be much better prepared. COVID-19 has exposed the **fragmentation of the global governance** for health emergency preparedness and response and the **key role that science, research and innovation can play** in having a world better ready for future health crises as also identified by European Global Health Institutes Network (EGHRIN)³.

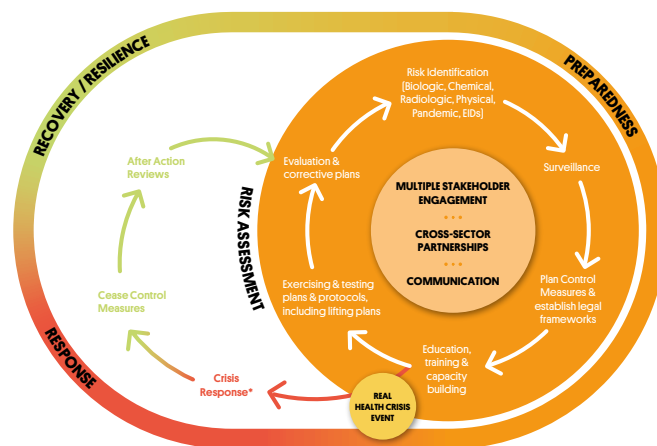
As a consolidated hub of excellence in research with a mission to translate science into policies and practices, the [Barcelona Institute for Global Health](#) (ISGlobal), a member of EGHRIN, wants to reach out to other actors in order to contribute to and advance this fundamental debate. For that purpose, we are establishing an institutional hub/centre on preparedness, bringing together our existing expertise and capacities and our existing networks of collaborators. We have coined the **term PR³** as the guiding concept that combines the different phases of preparing for and responding to crises: Preparedness,

Response, Recovery and Resilience⁴, represented in the figure below.

It is only through such a comprehensive approach –both in terms of disciplines and capacities– that we will be able to tackle the systemic environmental risks to health in the coming future. Experience from COVID-19 and nuclear accidents show many commonalities related to preparedness, response, recovery and resilience, and in fact many of the lessons from the Chernobyl and Fukushima accidents and recommendations based on these can be translated directly to the COVID-19 pandemic⁴.

The PR³ model below takes into account the wide variety of hazards that could lead to a public health crisis. It includes several steps in the continuous spectrum of preparedness, response and recovery/resilience phases, based on the successes and challenges observed during COVID-19 health crisis⁴.

FIGURE 2. Diagram of PR³ Concept.



Source: Adapted from [ECDC country preparedness activities, 2013–2017](#).

MEETING STRUCTURE

The objective of the proposed workshop is to draw lessons related to PR³ from different complementary environmental and public health crises and discuss how best to incorporate them into future all-hazards preparedness plans at the global, regional, country and local levels. Drawing from the lessons learned in the hectic debate of the last two years, we want to bring together experts, practitioners and decision-makers in a complex conversation that reflects the nature of the challenges ahead. Participation of early career researchers is encouraged.

With this in mind, the workshop is organised in three parts, the third of which will be open to the public:

BARCELONA VENUE

[May 5]:

- **A thematic session**, covering PR³ strategies related to different types of health crises: infectious diseases, chemical, radiological and natural disasters, including those arising from climate change. With a strong focus on science, the objective is to identify commonalities and differences in order to outline a common approach and to create a network of experts in Europe and elsewhere to prepare and respond to different public health crises.
- **An institutional session**, looking at existing and emerging responses at the local, national, European and global levels. The objective of this session is to review ongoing initiatives and activities related to PR³ in their different forms. This should help institutions identify new areas for collaboration and for engagement of the scientific community in order to strengthen PR³ capabilities.

MADRID VENUE

[May 6]:

- **High-level panel**: this session will take place in Madrid the day after the technical workshop in Barcelona. We will open the conversation to the public through a dynamic (Davos' style) round table with those in charge of taking these decisions forward. Based on short summaries from the two workshops and engaging a wide range of stakeholders at different levels (politicians, philanthropists, public officials, communicators), we will discuss how best to collaborate in the implementation of a meaningful preparedness and response framework.

OUTCOMES

The findings of the discussions during the workshop will be used to develop recommendations and actions for strengthening preparedness and response at different levels and incorporating best-evidence strategies. These will be summarised in a paper submitted to a scientific journal with wide readership.

AGENDA

BARCELONA VENUE

May 5, 2022

WHERE?

CaixaForum Macaya and online

11:00- 11:30 Institutional welcome

Antoni Plasència, ISGlobal

Ignasi Lopez, "la Caixa" Foundation

Introduction to the workshop

Elisabeth Cardis and Gonzalo Fanjul, ISGlobal

11:30-14:00 WORKSHOP 1 – THEMATIC SESSION Review of scientific PR³ strategies for different types of crises

INFECTIOUS DISEASES / BIOLOGICAL DISASTERS

Anja Schreijer, Erasmus MC, The Netherlands

CHEMICAL/OCCUPATIONAL DISASTERS

Roberto Lucchini, Florida International University, School of Public Health, USA, and University of Brescia, Italy

RADIOLOGICAL DISASTERS

Thierry Schneider, Centre d'étude sur l'Évaluation de la Protection dans le domaine Nucléaire, France

NATURAL DISASTERS / VOLCANO ERUPTIONS

Claire Horwell, Durham University, International Volcanic Health Hazard Network, UK

CLIMATE CHANGE

Jaroslav Mysiak, Centro Euro-Mediterraneo sui Cambiamenti Climatici, Università Ca' Foscari Venezia, Italy

WAR AND REFUGEES

Oliver Razum, Bielefeld University, Germany

Discussion: Summary of commonalities and differences – towards a common approach to PR³.

OBJECTIVES

Include preparedness protocols, identification and follow-up of affected populations, communications and stakeholder engagement.

Identify commonalities adaptable to other health crises and differences.

Outline common approach and discuss creation of a network of experts to prepare and respond to different health crises.

MODERATOR

Elisabeth Cardis

14:00-15:00 Lunch break

15:00-17:45 WORKSHOP 2 Institutional Session

GLOBAL

WHO/ UN - Sendai Framework for Disaster Risk Reduction.

Jonathan Abrahams, Technical Officer Disaster Risk Management and Resilience Unit, Geneva, Switzerland

The Global Fund. David Lowrance, Senior advisor COVID-19 and PPR, Geneva, Switzerland

MSF. Aitor Zabalgogezkoa, Spain

Drugs for Neglected Diseases initiative (DNDi). Nathalie Strub-Wourgaft, COVID Response and Pandemic Preparedness Director, Switzerland

OBJECTIVES

Review institutional capabilities, mandates and resources available at different levels to improve preparedness for public health crises, in particular new initiatives and activities set-up as a result of the COVID-19 pandemic and plans for the future.

MODERATOR

Gonzalo Fanjul

BARCELONA VENUE

May 5, 2022

WHERE?

CaixaForum Macaya and online

15:30- 17:45 EUROPE**(cont.)**

European Health Emergency Preparedness and Response Authority (HERA). Wolfgang Philipp, Belgium

European Global Health Research Institutes Network (EGHRIN) Institute for the Future - KU Leuven. Anne-Mieke vanDamm, Belgium

European Foundation on Preparedness. Martin Andler, Member, France

WHO Europe, Program for Environmental and Health Impacts. Sinaia Netanyahu, Programme Manager Environment and Health Impact Assessment, Germany

AMERICA

Pan-American Health Organization. Ciro Ugarte, Director for Emergency Preparedness and Disasters, USA

AFRICA

Africa CDC Emergency Operations Center. Wessam Mankoula, Lead of Emergency Operations Centre, Ethiopia

NATIONAL**Spain**

Public Health Agency of Catalonia. Mercè Herrero, Public Health Officer

Public Health Agency of Barcelona. Carme Borrell, Manager

USA

National Institutes of Health, Disaster Research Response Program. Aubrey K. Miller, Senior Advisor

Luxembourg

Laboratoire National de la Santé. Ann Van Nieuwenhuysse, Head of Department Health Protection

17:45- 18:15 **Tea break****18:15- 19:30** **FINAL SESSION**
Brainstorming**OBJECTIVES**

Identification of actions/activities across the different hazards:

- common protocols and approaches;
- improvement of epidemiological information systems;
- governance;
- provision of capacity through networks of experts who can advise on different health hazards.
- foster a constructive public and political conversation.

19:30- 21:00 **Evening reception for all participants**

MADRID VENUE**ROUNDTABLE DISCUSSION WITH DECISION-MAKERS**

May 6, 2022

WHERE?

Fundación Ramón Areces and online

12:00- 14:00 INSTITUTIONAL WELCOME BY FUNDACIÓN RAMÓN ARECES**SHORT PRESENTATION OF ISGLOBAL PR³ MODEL AND SUMMARY OF FIRST TWO SESSIONS**

ISGlobal. Elisabeth Cardis, Spain

DIALOGUE WITH DECISION-MAKERS**Spanish Government.** Raquel Yotti, General Secretary for Research. Ministry of Science and Innovation**Spanish Government.** Juan Fernando Muñoz Montalvo, General Secretary for Digital Health, Information and Innovation of the National Health System. Ministry of Health**European Commission.** Isabel de la Mata, Principal Adviser for Health and Crisis Management**The Global Fund.** Françoise Vanni, Director of External Relations and Communications**The Bill and Melinda Gates Foundation.** Anja Langenbucher, Director for Europe**Drugs for Neglected Diseases Initiative (DNDi).** Bernard Pecoul, Executive Director**African Centres for Disease Control.** Wessam Mankoula, lead of the Emergency Operations Center**World Health Organization Hub for Pandemic and Epidemic Intelligence.** Oliver Morgan, Director for Global Health, Surveillance and Risk Assessment of Health Emergencies

ISGlobal. Antoni Plasència, Director General, Spain

Participation from the audience.***Speakers from Barcelona sessions will be able to participate in Madrid session****OBJECTIVES**

After the technical discussions of the previous day, this session will address the political challenge of preparedness through a conversation with high-level decision makers.

- Are there regional and global plans in place?
- What are the key obstacles in the road ahead (science, finances, governance)?
- How can public and private partners work together to address these binding constraints?

MODERATOR**Gonzalo Fanjul**, Policy Director, ISGlobal, Spain

The event will be recorded for those people who may not be able to attend and for documentation purposes. By default, your microphone and camera will be muted when you join the Barcelona sessions by **Zoom meeting** (previous [online registration](#) necessary). If you do not want to be included in the recording, simply keep your camera and microphone off — you may ask questions in the chat window.

Streaming [for the Madrid session on May 6]:
www.fundacionareces.tv/directo

REFERENCES

1. L Liutsko, D Oughton, A Sarukhan, E Cardis and the SHAMISEN Consortium. The SHAMISEN Recommendations on preparedness and health surveillance of populations affected by a radiation accident. *Environ Int* 2021 Jan;146:106278. doi: [10.1016/j.envint.2020.106278](https://doi.org/10.1016/j.envint.2020.106278). Epub 2020 Nov 30.
2. A Sarukhan, E Cardis, L Liutsko, P Crouaïl, F Zölzer, D Oughton. COVID-19: What Can Past Nuclear Accidents Teach Us? 2020. *ISGlobal COVID-19 & response strategy Series #24*. https://www.isglobal.org/en_GB/-/covid-19-que-nos-pueden-enseñar-los-accidentes-nucleares-pasados
3. LERU and EGHRIN. LERU and EGHRIN Response Public Consultation on Impact Assessment for HERA. https://eghrin.eu/wp-content/uploads/2021/03/20210224-LERU-and-EGHRIN-Public-Consultation-Response-HERA_2.pdf
4. E Diago-Navarro, O Ramírez, M Rodó, G Fanjul, E Cardis. How Can We Be Better Prepared for the Next Public Health Crisis? Lessons Learned from the COVID-19 Pandemic. <https://www.isglobal.org/-/how-can-we-be-better-prepared-for-the-next-public-health-crisis-lessons-learned-from-the-covid-19-pandemic>



ISGlobal **Barcelona**
Institute for
Global Health

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