



THE GLOBAL ALLIANCE FOR
DIAGNOSTICS

**Equitable Scientific
Collaborations, Partnerships,
and Coordination on the
Global Scale**

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<https://www.finddx.org/>

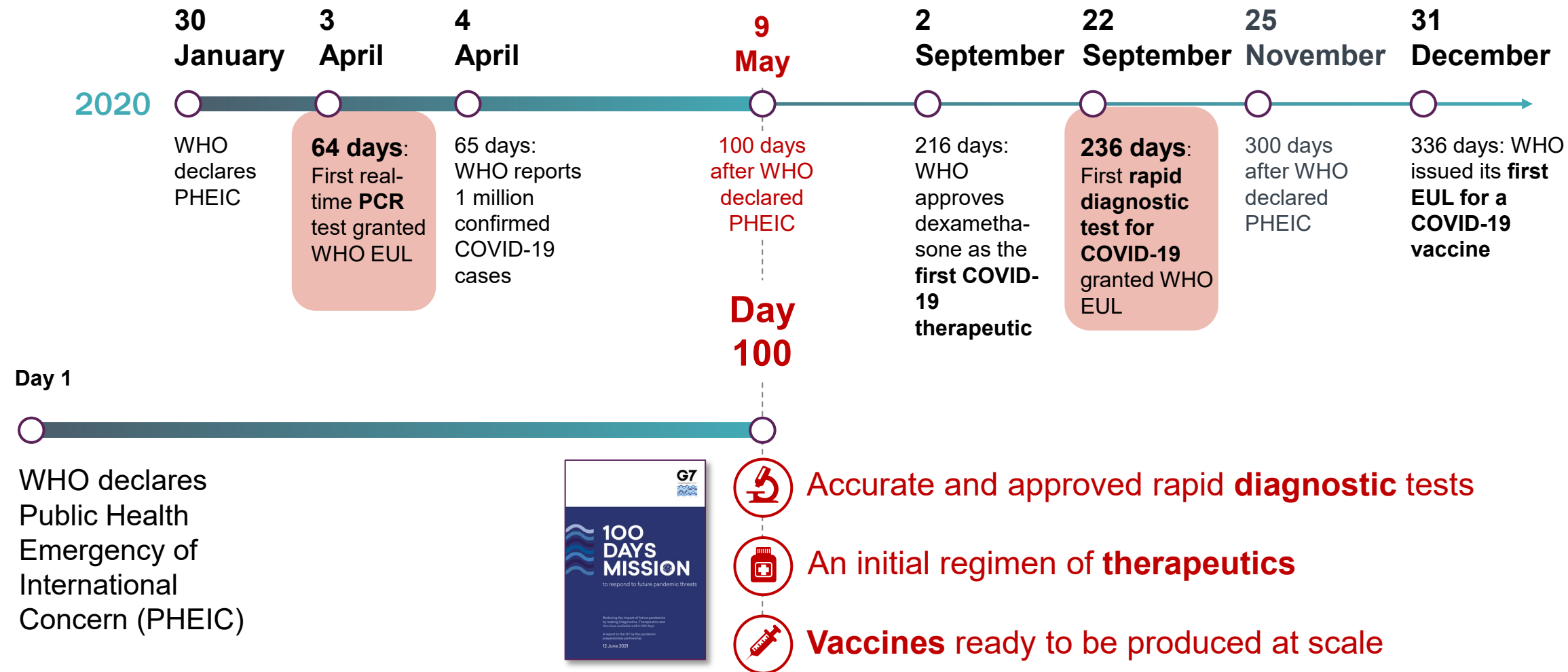


LONDON
SCHOOL of
HYGIENE
& TROPICAL
MEDICINE



100DM DIAGNOSTICS

CRITICAL NEED FOR A QUICKER RESPONSE



EUL, emergency use listing procedure; PCR, polymerase chain reaction; PHEIC, public health emergency of international concern.

G7 100 Days Mission to respond to future pandemic threats.

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/992762/100_Days_Mission_to_respond_to_future_pandemic_threats_3_.pdf

COVID-19 - WHAT EXPERIENCE HAS TAUGHT US

SUCCESSSES

Collaboration between academia and industry^{3,4}

- Automated PCR tests available in 64 days from PHEIC
- Rapid diagnostic tests approved in 236 days

Increased demand from governments, increasing manufacturing capacity and capabilities^{5,6}

- Reduced costs for diagnostics
- Increased access for LMICs

CHALLENGES

Developers initially hindered due to:

- Slow access to samples / reference material
- Lack of clear product requirements
- Insufficient regulatory harmonisation

Lack of demand and supportive policy for affordable, fast and accurate diagnostics prior to COVID-19

- Limited evidence to inform policy
- Limited manufacturing capacity
- Market underprepared

Access to accurate tests in LMICs and integration into surveillance networks remain fundamental issues^{2,3}

FIND's Pathway to Accomplish the 100 Days Mission for Diagnostics

Accelerate product Research & Development

1

Develop novel diagnostic platforms

2

Build prototype diagnostic library for 10 pathogens

3

Establish clinical reference standards

Streamline evidence generation and regulatory approval

4

Integrated global biobanking network

5

Establish global clinical trial and product evaluation network

6

Formalize pathway to enable collaborative product registration

Strengthen surveillance and community-based testing infrastructure

7

Strengthen global disease surveillance

8

Normalize point-of-care testing programmes

9

Support digital connectivity and diagnostic network optimization

Establish warm base for manufacturing and reliable pull mechanism

10

Support development of regional manufacturing hubs

11

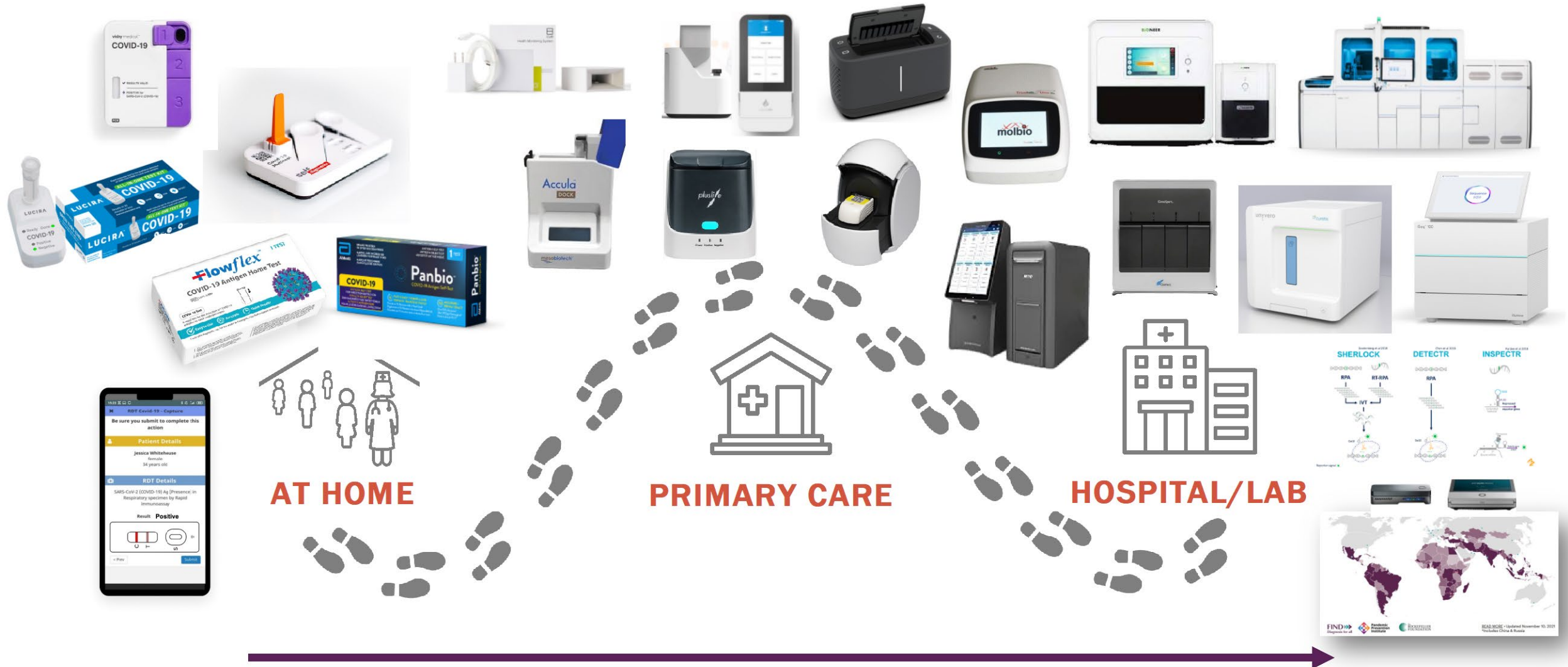
Institute reliable pull mechanism



Advocacy for evidence-based policy, equitable access and universal health coverage

THE COMING DELUGE

THE COMING EXPLOSION IN NEW POC MOLECULAR PLATFORMS



Connected diagnostics and interoperable systems for data management, data aggregation and data sharing for surveillance

A STRATEGY TO ACCELERATE GLOBAL EFFORTS TOWARDS UNIVERSAL HEALTH COVERAGE & HEALTH EMERGENCY RESPONSE – TWO SIDES OF THE SAME COIN

LONG-TERM GOALS

Universal health coverage

Expand primary care testing to combat diseases that disproportionately affect vulnerable populations

Health emergencies

Strengthen diagnostic surveillance & response systems to contain outbreaks and improve pandemic preparedness, aligned with a One Health approach

At-risk populations:

Minimize TB and hepatitis deaths from missed diagnosis

Women & children:

Strengthen antenatal screening for communicable and non-communicable diseases, and reduce deaths from undiagnosed fever and pneumonia

Marginalized populations:

Accelerate elimination of neglected tropical diseases through tailored testing strategies

Pandemic preparedness:

Build on broad COVID-19 testing capacity and the ACT-Accelerator model to establish sustainable early-warning and response systems for known and emerging pathogens

AMR:

Build access to testing and surveillance to safeguard drugs and reduce mortality

Digital tools:

Unlock the power of data to strengthen health systems and empower individuals

Diagnostic network design & optimization:

Use local data to design context-specific testing strategies and implementation models

Integrated biobank network:

Facilitate diagnostic development and implementation across diseases

Healthy markets:

Shape sustainable markets for quality-assured and affordable diagnostics

Sequencing:

Enable genomics for improved surveillance and diagnosis



THE ACCESS TO COVID-19 TOOLS (ACT) ACCELERATOR DIAGNOSTICS PILLAR PRESSURE-TESTED THE DIAGNOSTICS ALLIANCE CONCEPT

More than 50 organizations support the Dx Pillar on strategy, product development, policy, and implementation across the Dx value chain



The Diagnostic Pillar has been co-convened by FIND and the Global Fund, with participation from a coalition of 50 standing partners across 3 working groups.

WHO leads on regulatory, policy, product procurement, and allocation

American Society of Tropical Medicine and Hygiene

Annual Meeting:

Oct. 18 – 22, 2023

Hyatt Regency
Chicago,
Chicago, USA



<http://www.astmh.org>