

# Africa Centres for Disease Control and Prevention

## Monitoring and Evaluation Framework for the Partnership to Accelerate COVID-19 Testing





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# Introduction

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The Partnership to Accelerate COVID-19 Testing (PACT) initiative is a multi-pronged activity to increase the capacity of African Union Member States to Test, Trace, and Treat individuals with COVID-19. Implemented by the Africa Centres for Disease Control and Prevention (Africa CDC), it aims to support, in Africa, (a) conduct of 10 million COVID-19 tests; (b) deployment of one million community health workers (CHWs) to assist in tracing contacts of cases, and (c) training of 100,000 healthcare workers to boost care and treatment of COVID-19 patients. Africa CDC has established a platform through which Member States can find and procure their laboratory diagnostics and medical equipment for the COVID-19 response.

This document provides a framework for monitoring and evaluating PACT implementation and decision-making at the continental level. Africa CDC will use all possible mechanisms through its Regional Collaborating Centres (RCCs), the Regional Economic Communities (RECs), other partners such as the World Health Organization (WHO) and the Member States to collect all required information.



## The overarching goal of monitoring

Monitor the PACT implementation progress and generate information for action.



## PACT targets

1. By October 2020, support:
  - a. conduct of at least 10 million tests in Africa
  - b. monitoring of all confirmed cases and trace their contacts (through their period of isolation and quarantine)

- c. engagement of 100,000 CHWs to manage COVID-19 cases
  - d. deployment of one million CHWs to support COVID-19 response in Africa
2. Use of the pooled procurement platform by 30% of Member States to procure at least 10% of their COVID-19 supplies between June and October 2020
  3. Use of Africa CDC produced guidelines by 30% of Member States by October 2020

This document outlines a monitoring and evaluation framework for use in Africa to enable Africa CDC to track the implementation progress and impact of PACT. Information collected using the framework will be used to report back to donors and for programme improvement and policy decisions.



## Key principles for monitoring

- The document focuses on high-level indicators for use by Africa CDC.
- Focus on simple tools and methods for data collection, reporting, and interpretation that focus on high-level programmatic management.
- Build on existing monitoring and evaluation structures and data that do not require additional resources or mechanisms for data collection by the Member States.
- The optimal number of indicators for each identified activity with relevance to the overall PACT initiative.
- The baseline for each indicator is set for June 2020 with the target set for October 2020.



# Test

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The following baseline capacities are assumed or will be built for implementation in each Member State:

- Supply chain – Member State has a clear plan for distribution.
- Laboratory testing has been decentralised, or an efficient specimen referral system is in place for timely testing and reporting of results.
- Laboratory has a functional laboratory information management system (LIMS).
- Laboratory workforce is sufficient to handle surge capacity and is trained in the methods used in-country for COVID-19 testing (PCR, point of care molecular based assay (i.e. GeneXpert, antigen testing, etc.).



## Key indicators for monitoring Test

The primary goal of *Test* is to conduct 10,000,000 tests across the continent by October 2020. As such, the primary parameter to follow will be the cumulative number of tests that have been conducted. In addition, the following will be tracked to monitor the quality of implementation:



Objective	Indicator	Indicators Target		Timeline/ Frequency/ for reporting	Means of verification	Remarks
		Baseline value	Target Value			
Conduct at least 10 million tests in Africa	Cumulative number of COVID-19 tests conducted		10 million	Weekly	Reports from MS, RCC, RECs and Partner's reports	
	Test per case ratio for Member States		10-30	Weekly	Reports from MS RCC reports  Other reports	
	Average number of days it takes for test results to be ready		< 4 days	Monthly	MS SitReps  RCC, RECs and Partner's reports	





# Trace

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The following baseline capacities are assumed or will be built for implementation by each Member State:

- Trace plans (contact tracing, active case finding and community mobilisation) are available and implemented at national and subnational level.
- Whole government plan and response approach for COVID-19 are instituted to ensure effective implementation of the non-pharmaceutical control interventions.
- Plan in place for recruitment and training of CHW tracers including target number and distribution strategy.



## Key indicators for monitoring Trace

The primary goal of *Trace* is to train and deploy 1 million CHWs across the continent by October that will do contact tracing. Africa CDC will support 100,000 of these. As such, the primary parameters to track will be the following to monitor the extent and quality of implementation:



Objective	Indicator	Indicators Target		Timeline/ Frequency for reporting	Means of verification	Remarks
		Base-line value	Target value			
Support the engagement of 100,000 HCW in the appropriate management of COVID-19 cases	Number of CHWs deployed through the Africa CDC and partners support	0	100,000	Weekly	SitReps RCC Reports	
Deployment of one million HCWs to support COVID-19 response in Africa through all available mechanisms	Number of CHWs engaged for COVID-19 response in the continent through all mechanisms		1 Million	Monthly	MS reports, RCC, RECS and Partners reports	
	Number of CHWs per 10,000 population		10	Monthly	MS reports, RCC, RECS and Partners reports	
Tracing all confirmed cases and their contacts (through their period of isolation and quarantine)	Proportion of Member States provided with technical support on TRACE (training and deployment of experts)		50%	Monthly		



# Treat

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The following baseline capacities are assumed or will be built for implementation:



## Home-based care

- Home-based care plan available in Member State
- Member State implementing triage testing strategy (as per the guidance)
- Member State prioritising vulnerable populations for timely interventions



## Facility-based care

- Basic infection prevention and control (IPC) package (training materials Information brochures/flyers, personal protective equipment (PPE).
- Member State health facility treatment plan available.
- Dedicated isolation facilities or units established.
- Clinicians trained in the care of COVID-19.
- IPC guidelines in place.





## Key indicators for monitoring *Treat*

The primary goal of *Treat* is to train 100,000 healthcare workers in the appropriate management of COVID-19 by October 2020. As such, the key parameter to be monitored will be the following:

Objective	Indicators	Indicators Target		Timeline/ Frequency for reporting	Means of verification	Remarks
		Baseline value	Target Value			
	Number of clinicians trained in the management of severe cases		100,000 by October 2020	Weekly	SitReps RCC report	
	Proportion of CHWs trained in home-based management of mild cases		80%	Monthly	SitReps RCC report	





# Pooled Procurement Platform



## Key indicators for monitoring the pooled procurement platform

The pooled procurement platform is a resource for facilitating the procurement of medical equipment, laboratory diagnostics, and other materials for use in the COVID-19 response. It was established in June 2020.

Objective	Outcome	Indicators Baseline value	Target Target Value	Timeline/ Frequency for reporting	Means of verification	Remarks
	Proportion of Member State that have used the platform		30% of Member State in the continent by October 2020	Weekly	Data directly from the platform	
	Proportion of commodities requested by Member State that are available		80%	Monthly	Data directly from the platform	
	Proportion of days reduced from order submission to receipt of commodity by the Member State	Adjusted to reflect country needs	50%	Monthly	Data directly from the platform	



## Impact indicators

Ultimately, the aim of PACT is to see a decrease in transmission of SARS-CoV-2 in the community with a corresponding decrease in the number of deaths. Clearly, not all the impact will be directly attributable to the implementation of PACT, however, it is not possible to identify the direct contribution of PACT vs. other mitigation measures such as physical distancing and mask-wearing. Nonetheless, some indicators will be tracked as follows:

### Indirect impact indicators:

Objective	Outcome	Indicators target		Timeline/ Frequency for reporting	Means of verification	Remarks
		Baseline value	Target value			
	Observed case fatality rate	Last reported value	Decreased trend	Monthly	Reports from Member State, RCC and Partners	
	Reported number of confirmed cases (trend)	Last reported value	Decreased trend	Monthly	Reports from Member State, RCC and Partners	
	Reported occupancy rate of major hospitals (trend)	Last reported value	Decreased trend	Monthly	Reports from Member State, RCC and Partners	
	Reported all-cause or pneumonia deaths in the community	Past year baseline	Decreased trend	Quarterly	Reports from Member State, RCC and Partners	



# Annexes

## Annexe 1: Explanation of key indicators

### Test

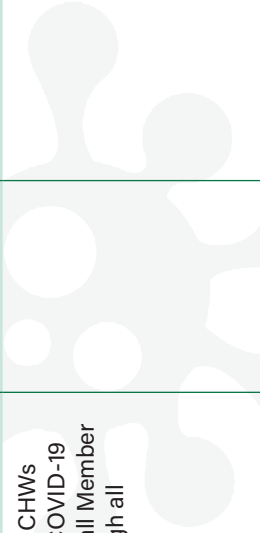
Description	Numerator	Denominator	Assumptions and notes
<p>Cumulative number of COVID-19 tests conducted</p>	<p>-</p>	<p>-</p>	<ul style="list-style-type: none"><li>▪ Includes ALL tests done (including repeats in all settings)</li><li>▪ Counts the number of tests, NOT patients</li></ul>

Description	Numerator	Denominator	Assumptions and notes
<p>Test per case ratio for Member States</p> <p>MS to aim towards the WHO recommendation ratio of 10-30 tests per 1 confirmed case</p> <p>This will track if testing if the testing is within the WHO recommended threshold. Less than 10 shows the MS is unlikely to effectively identify every case while <math>\geq 30</math> shows the MS is likely identifying most of the cases and contacts. If consistently below 10, to trigger further investigation and supportive actions to increase testing. <math>&gt; =</math> above 30 encouraged to continue and maintain and continue to monitor case trends.</p>	<p>Number of cases identified/confirmed through testing per week</p>	<p>Number of tested conducted per day (or week)</p>	<ul style="list-style-type: none"> <li>▪ Adequate testing capacity in Member State</li> <li>▪ Laboratory equipment and supplies are adequate with no stock outs</li> <li>▪ Country maintains testing rate to ensure 10-30 tests per confirmed case.</li> <li>▪ All testing is within the quality assurance limits</li> <li>▪ Less than 10 tests per positive case may indicate (a) not targeting risky/appropriate population (b) may be reassuring that infection is reducing (this requires independent verification) or (c) issues with the testing capacity (needs further investigation and support</li> </ul>

	<b>Description</b>	<b>Numerator</b>	<b>Denominator</b>	<b>Assumptions and notes</b>
Average number of days it takes for test results to be ready	This refers to the period from when the sample is collected to when the result is reported by national laboratory authorities based on country data (SitReps).	Number of samples collected per week.	Number of test results per week.	<ul style="list-style-type: none"> <li>▪ Adequate testing capacity in Member State</li> <li>▪ Laboratory equipment and supplies are adequate with no stock outs</li> <li>▪ All sample handling, transport and logistics are functioning optimally.</li> </ul>



# Trace: Contact tracing

Description	Numerator	Denominator	Assumptions and notes
<p>Number of CHWs deployed in the country through the Africa CDC and partner support weekly (target of 100,000 by Oct. 2020)</p>	-	-	<ul style="list-style-type: none"> <li>Member States will request CHWs through the Africa CDC platform.</li> <li>Partners continue to support Member States</li> </ul>
<p>Number of CHWs engaged for COVID-19 response in the continent through all mechanisms (target of 1 million by Oct. 2020)</p>			<ul style="list-style-type: none"> <li>Member States and partners continue to engage and support health workers in response to the pandemic</li> <li>Uninterrupted service delivery</li> </ul>
<p>Number of CHWs per 10,000 population</p>	--	--	<ul style="list-style-type: none"> <li>Member State has the recommended number of CHWs per population (10/10,000 population)<sup>1</sup></li> <li>Partners continue to support Member States</li> <li>CHWs are timely paid or given the agreed incentives without interruption.</li> </ul>

Description	Numerator	Denominator	Assumptions and notes
Proportion of Member States provided with technical support on TRACE (training and deployment of experts)	<p>a. Number of Member States with trained/orientated contacts tracers per month</p> <p>b. Number of Member States with deployed contacts tracers through PACT per month</p>	<p>a. Number of Member State supported with contacts tracers per month</p> <p>b. Number of Member States requesting deployment of contacts tracers through PACT per month</p>	<ul style="list-style-type: none"> <li>Assume suitable CHWs are available in each Member States</li> <li>Africa CDC and partners continue to support Member State in the deployment of CHWs</li> <li>Africa CDC and partners continue to support Member States in training/orientation of CHWs</li> </ul>

(Footnotes)

<sup>1</sup> [https://www.who.int/data/gho/data/indicators/indicator-details/GHO/community-health-workers-density-\(per-10-000-population\)](https://www.who.int/data/gho/data/indicators/indicator-details/GHO/community-health-workers-density-(per-10-000-population))



# Treat

	Description	Numerator	Denominator	Assumptions and notes
<p>Number of clinicians trained in the management of severe COVID-19 cases</p>	<p>This indicator tracks the adequacy of skilled health workers available in each Member State for the care of severely ill COVID-19 case</p> <p>This include ALL health workers trained through Africa CDC, partners and by the Member State with own resources.</p>	-	-	<ul style="list-style-type: none"> <li>Member States request Africa CDC and partner support</li> <li>Africa CDC continues to provider/deliver the clinician training</li> <li>Not all clinicians would be available for training (other health services must also be delivered)</li> </ul>
<p>Proportion of CHWs trained in the home-based management of mild cases per Member State</p>	<p>This indicator tracks the availability of skilled CHWs engaged in home-based care of mild COVID-19 cases in all Member States.</p> <p>PACT aims to support the orientation of CHWs in basic home-based case management.</p> <p>As member states continue to see an increasing number of cases, home-based care is one option.</p>	<p>Number of CHWs trained in home-based management of mild COVID-19 cases in the Member State</p>	<p>Number of CHWs requiring training in home-based management of mild COVID-19 cases in the Member State</p>	<ul style="list-style-type: none"> <li>Member States have operationalised a policy for home-based care of mildly ill COVID-19 cases</li> <li>Africa CDC and partners support MS in orientating CHWs in the basics of home-based care</li> </ul>

# Procurement

Description	Numerator	Denominator	Assumptions and notes
<p>Proportion of Member States that have used the platform per week</p> <p>This will show the number of Member States using the platform per month. PACT has provided the platform in support of Member States.</p> <p>The aim is to have at least 30% of Member States using procure items from the platform by October 2020</p>	<p>Number AU MS that have used the platform to procure COVID-19 supplies</p>	<p>All 55 AU MS</p>	<ul style="list-style-type: none"> <li>Member States are aware of procurement platform</li> <li>Member States use procurement platform for their COVID-19 response commodities</li> <li>Africa CDC sustainably sensitise the Member States about the platform</li> </ul>
<p>Proportion of commodities requested by MS that are available</p> <p>This indicator will track the adequacy of the platform in maintaining stocks for COVID-19 response commodities</p>	<p>Total of number of commodities requested by all MS by type (e.g. facemasks)</p>	<p>Total number of commodities requested by MS that are in stock by type (e.g. facemasks)</p>	<ul style="list-style-type: none"> <li>Member States are aware of procurement platform</li> <li>Member States use procurement platform for their COVID-19 commodities</li> <li>Africa CDC sustainably sensitise the Member States about the platform</li> </ul>

	Description	Numerator	Denominator	Assumptions and notes
<p>Proportion of days reduced from order submission to receipt of commodity by the Member State</p>	<p>The delivery time of commodities (from date of order to the date the commodity is received) should decrease with time as the platform becomes proficient as operations become established.</p> <p>Analyse the time in days of comparable serial deliveries of commodities and destination. Example, PPE delivered at different times to the same destination, <i>considering factors external to the influence of the platform.</i></p>	<p>Number of days taken from the date of the order to date of delivery to the destination</p>	<p>Number of days taken from the date of the order to date of delivery to the destination</p>	<ul style="list-style-type: none"> <li>▪ The platform is efficient in delivery of requested commodities.</li> <li>▪ There are no stock outs</li> <li>▪ Member States are aware of procurement platform</li> <li>▪ Member States use procurement platform for their COVID-19 commodities</li> <li>▪ Africa CDC sustainably sensitise Member States about the platform</li> </ul>



## Annex 2: Mid-term evaluation of PACT

In addition to the above indicators, a mid-term evaluation should be planned that will do a deep dive investigation of programme implementation. In addition to the data described above, it would include an evaluation of indicators available at the country level such as:

- Total number of trained CHWs active on COVID-19 response in the country.
- Percentage of confirmed cases reported by CHWs.
- Percentage of suspected cases or persons under investigation that were reported by CHWs and subsequently confirmed as positive cases.
- Percentage of contacts identified that were tracked over time and the percentage that completed their quarantine.
- Percentage of contacts who subsequently became cases.
- Number of stock outs of reagents and supplies for COVID-19.







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