

National Public Health Emergency Team

NPHET Discussion Paper

**Framework for Future COVID-19 Pandemic Response
Monitoring Framework**

30 July 2020

Action required

- For noting
- For discussion
- For decision

Please note: The structure of the document has changed from the previous version, but the majority of indicators have remained unchanged. Changes from previous version are highlighted in red.

Monitoring Framework context

This Monitoring Framework accompanies the Framework for Future COVID-19 Pandemic Response and will be used to support decision-making within that Framework.

The risk level associated with COVID-19 is based on the likelihood of the virus being introduced into the setting, the likelihood that the introduction of the virus results in transmission, and the impact of introduction or spread in the setting, and associated community.

Underpinning this assessment of risk at national, regional and local levels is an accurate, robust and timely assessment of the extent to which COVID-19 is transmitting in the community.

The Monitoring Framework has been informed by the ECDC framework to monitor responses to the COVID-19 pandemic. It represents a minimum dataset, which will be kept under review and modified as necessary in light of further ECDC guidance and emerging evidence and practice. It should be regarded as a minimum dataset, and doesn't replace the collection and reporting of data at more disaggregated levels.

The majority of data identified is already collected, where it isn't new data collection and reporting mechanisms will be put in place.

Monitoring Framework

Indicator no	Indicator	Frequency	Monitoring level		Source
			National	Sub national	
Testing, Case Management and Contact Tracing					<input type="checkbox"/> Already reported
1.1	Number of GP referrals for testing	weekly	✓	✓	HSE weekly report
1.2	Number of RT-PCR tests undertaken	daily	✓	✓	HSE weekly report
1.3	Number of positive results and positivity rate	daily	✓	✓	HSE weekly report
1.4	Proportion of cases successfully contacted and contact tracing initiated within 24 hours of laboratory result	weekly	✓		HSE weekly report
1.5	Proportion of contacts successfully reached within 24 hours from interview with case	weekly	✓		HSE weekly report
1.6	Proportion of contacts who develop laboratory confirmed COVID-19 (at initiation of tracing and over the 14 days follow-up period) by asx/sx status	weekly	✓		HSE weekly report
1.7	7 day rolling median and average number of close contacts per case	weekly	✓		HSE weekly report
1.8	Proportion of population that has downloaded Covid Tracker App	weekly	✓		HSE weekly report
1.9	Median time from symptom onset to referral for swab	weekly	✓		HSE weekly report
1.10	Median time (end to end) from referral to contact tracing complete for all tests and for positive cases	weekly	✓		HSE weekly report
1.11	Proportion of tests completed (end-to-end) within target turnaround time of 3 days or less	weekly	✓		HSE weekly report
1.12	Median time from laboratory confirmation to reporting of case to DoH	weekly	✓	✓	HSE weekly report
1.13	Surveillance data field completion rates for specified fields	Weekly	✓	✓	HSE weekly report

Indicator no	Indicator	Frequency	Monitoring level		Source
			National	Sub national	
Disease Surveillance					
2.1	Number of newly confirmed cases by demographic details including transmission mode	Daily	✓	✓	HPSC
2.2	7 day rolling average of newly confirmed cases by notification date	Daily	✓	✓	HPSC
2.3	14-day incidence rate of newly confirmed cases, by epidemiological date, specimen collection date and laboratory notification date	Daily	✓	✓	HPSC
2.4	Number of total and newly confirmed cases and suspect cases admitted to hospital	Daily	✓	✓	HSE Ops report
2.5	Number of total and newly confirmed cases and suspect cases admitted to critical care	Daily	✓	✓	HSE Ops report
2.6	Occupancy rates for inpatient beds and critical care beds	Daily	✓	✓	HSE Ops report
2.7	Number and rate of new probable and confirmed deaths from COVID-19	Daily	✓		HPSC
2.8	Number of deaths among confirmed COVID-19 cases	Daily	✓		HPSC
2.9	All-cause excess mortality	Weekly	✓		HPSC (EuroMOMO/CSO)
2.10	Reproduction number estimates	Weekly	✓		IEMAG
2.11	Influenza like illness rate via enhanced sentinel surveillance system	Weekly	✓	✓	HPSC
2.12	Estimates of seroprevalence from national studies	Periodically	✓	✓	HPSC
2.13	Median time from lab result confirmation to cluster linkage on CIDR	Weekly	✓	✓	HPSC
2.14	Sewage monitoring – indicator to be developed	TBD			TBD

Indicator no	Indicator	Frequency	Monitoring level		Source
			National	Sub national	
Outbreaks and Targeted Groups					
3.1	Number and size of open and newly notified outbreaks by location category/vulnerable populations (including healthcare settings)	Weekly	✓	✓	HPSC
3.2	Number of newly confirmed cases among healthcare workers by category and by asx/sx status	weekly	✓	✓	HPSC
3.3	Number of newly confirmed cases in vulnerable groups/populations e.g. LTCFs, homeless, direct provision etc.	weekly	✓	✓	HPSC
3.4	Number of new probable and confirmed deaths from COVID-19 among healthcare workers by category	weekly	✓	✓	HPSC
3.5	Number of new probable and confirmed deaths from COVID-19 in LTCFs	weekly	✓	✓	HPSC
Vaccine monitoring					
4.1	Seasonal Influenza Vaccine: <ul style="list-style-type: none"> • Uptake in LTCFs, by staff , by residents • Uptake in Acute Hospitals, by staff • Uptake by community health and social care staff 	TBD	✓	✓	TBD
4.2	COVID-19 vaccine indicators to be developed (awaiting ECDC guidance)				
Infection prevention and control					
5.1	Number of healthcare-acquired cases of COVID-19	weekly	✓	✓	HPSC
5.2	Use of PPE in confirmed cases in healthcare workers	weekly	✓		HPSC/HSE
5.3	Estimate number of days of supply of PPE available for use in the Health Service, based on current usage.	weekly	✓		HSE

Indicator no	Indicator	Frequency	Monitoring level		Source
			National	Sub national	
International Situation					
6.1	Total number of cases globally and in Europe	Weekly			DoH (WHO and ECDC)
6.2	Growth rate of cases globally and in Europe	Weekly			DoH (WHO and ECDC)
6.3	14 day Incidence in EU27+UK	Weekly			DoH (ECDC)
6.4	14 day incidence in Northern Ireland	Weekly			DoH (DOH NI)