

COVID-END global horizon-scanning panel Insights from panelists from the panel meeting on 26 May 2021

(Last updated on 7 June 2021)

Panelists identified a number of emergent issues (or previously missed long-term and recurring issues and/or elaborations on these issues) related to COVID-19 for which evidence syntheses are or will be needed. The points raised for consideration spanned all four areas of the COVID-END taxonomy and are listed below.

Panelists also reviewed a list of priority topics for 'living' evidence syntheses that was developed by identifying when issues they had identified in past calls were not addressed by high quality, recently updated evidence syntheses included in the COVID-END inventory of 'best' evidence syntheses. They provided feedback about how these topics can be framed in ways that are optimal to support decision-making and completed an online poll that allowed them to re-order the topics to reflect their urgency or importance (within each of the four parts of the COVID-END taxonomy and cross-cutting themes).

This summary of insights is divided into two sections to reflect these separate, but linked, discussions.

Emergent issues (and previously missed long-term and recurring issues and/or elaborations on these issues)

Cross-cutting

- 1) Identifying the conditions under which local/regional/national **context** should drive the COVID-19 response, and balancing context-specific approaches with universal approaches
- 2) Recognizing the **limited choices** available to some countries and the impacts on decision-making and public communication
- 3) Capturing the **innovations and policy interventions that do not work or do harm** so they are not repeated elsewhere or in the future
- 4) Developing timely mechanisms to monitor and effectively respond to misinformation and evolving evidence

Public-health measures

- 1) **Revisiting** the importance of certain public health measures, such as mass COVID-19 testing, and if they are still necessary/viable as immunization rates begin to rise
- 2) Continuing to explore vaccine effectiveness against emerging **variants of concern** and its impacts on vaccine rollout plans, such as number and timing of doses
- 3) Identifying **groups for which vaccines are less effective** (i.e., when antibodies are not developing after full vaccination) and exploring new solutions
- 4) Clarifying what constitutes **herd immunity** for COVID-19

Clinical management of COVID-19 and pandemic-related conditions

- 1) Understanding the relationship between COVID-19 and **non-communicable diseases** (such as diabetes and hypertension) and the possibility that COVID-19 may trigger or worsen these conditions and considering resultant impacts of future health system use
- 2) Co-infections of COVID-19 and communicable diseases such as dengue or malaria and related implications

Health-system arrangements

- 1) Developing **context-dependent vaccine strategies** that are responsive to COVID-19 prevalence and vaccine availability but also draw on research evidence
- 2) Creating appropriate 'vaccine passport' initiatives
- 3) Surfacing strategies to develop **confidence and trust in domestic initiatives**, such as the development of domestic vaccine-manufacturing capacity
- 4) Identifying, maintaining, and scaling innovations that are relatively positive (e.g., tele- and virtual consults)

- 5) Anticipating **labour-market changes** for healthcare workers (e.g., possibility of substantial departures from the workforce post-COVID) and developing strategies to manage **workforce shortages**
- 6) Exploring the successes and failures of engaging the **private sector** (for-profit and not-for-profit organizations and traditional healers) in the pandemic response
- 7) Restoring healthcare worker **trust in government authorities** and protecting them from threats of **violence** and physical harm
- 8) Identifying new forms of **inter-sectoral approaches to health** and the governance arrangements needed to support them

Economic and social responses

- 1) Exploring the fairness and impacts of **economic levers** such as stimulus cheques
- 2) Clarifying the safest approaches to resuming domestic and international travel
- 3) Understanding the use of **political tools** (e.g., impeachment) and **law enforcement** to hold leaders accountable for their response to the pandemic

Considerations raised related to the evidence ecosystem

- 1) Restoring the balance with non-COVID-19 research investments
- 2) Identifying and mitigating the politicization of research evidence

Priority topics for living evidence syntheses

The following list reflects the re-ordering of topics by panelists, changes to the wording of topics by panelists (highlighted in yellow), and the addition of new topics by panelists (with these new rows added to the bottom of each part of the list and with a blue row header). Topics for which at least some evidence syntheses are available have a light-green row header, and topics for which we are aware of existing or planned living evidence syntheses have a dark-green row header.

Rank	Prioritized topics from panel
1	Understanding real-world comparative vaccine effectiveness (in addition to trials data about safety and efficacy), including in relation to variants of concern, and the implications for public-health measures (e.g., vaccine substitution and timing for second dose; changes to infection prevention and control measures; and when herd immunity will be reached) and health-system arrangements (e.g., PPE, cohorting, and HVAC) *** see health-system arrangements for vaccine roll-out ***
2	Engaging vulnerable groups in society to develop and customize packages of public-health measures, clinical-management approaches, health-system arrangements, and economic and social responses that are sensitive to equity, diversity and inclusion considerations and that address inequalities in COVID-19 burden
3	Understanding the 'pipeline' of SARS-CoV-2 variants , the conditions under which they become 'variants of concern,' their transmission characteristics, and their implications for public-health measures (e.g., vaccine choice and sequencing, double masking, quarantine length, border closures, and other risk-mitigation strategies) and for health-system arrangements (e.g., capacity planning, PPE, cohorting, and HVAC systems)
4	Supporting coordination across government sectors and across non-governmental organizations, citizen groups, academia, and others, including 'non-typical' stakeholders (both in general and specifically to avoid future cycles of lockdowns and re-openings) and increasing capacity for policy learning across jurisdictions
5	Understanding the impact of global health inequities in the pandemic response (e.g., effects of vaccine nationalism, distribution of supplies, and variable government support for response) and the long-term global consequences
6	Optimizing packages of responses (public-health measures, health-system arrangements, and economic and social responses), including combinations of centralized and decentralized approaches, in terms of both their health benefits and their economic and social costs

Rank	Prioritized topics from panel	
6	Integrating data systems and monitoring and evaluation mechanisms to support pandemic response	
7	Capturing lessons learned from this pandemic from the perspective of individual citizens/households in	
	clear and concise ways in order to effectively apply them in future	
8	Documenting and addressing the long-term impacts of the pandemic on children (e.g., nutrition, obesity,	
	sport participation rates, education, employment prospects, and social impacts)	
Public-health measures		
1	Supporting adherence to public-health measures, including addressing barriers to adherence (e.g., safe	
	transportation to testing and vaccination sites, paid time off work, and publicly funded isolation facilities),	
	recognizing pandemic fatigue, optimizing public messaging about individual- and household-level measures	
	(and using creative formats to convey these messages), and using appropriate behavioural interventions to	
	overcome vaccine hesitancy	
2	Building rapid-response mechanisms to support interdisciplinary outbreak studies (and addressing	
_	litigation and other concerns related to sharing information about outbreaks), to avoid duplication of work,	
	and to support timely study appraisals and interpretation (and finding other ways to avoid preprints	
	inappropriately driving action before their quality has been determined)	
3	Understanding patterns in and consequences of the greater geographic dispersion of infections, including	
	the role of internal and international migration and of tourism in transmission, and of case fatality rates	
4	Adapting strategies for testing that optimize the use of existing capacity and incorporating neighbourhood-	
	based approaches like sewage testing to identify outbreaks	
5	Evaluating the use of self-testing kits as they become more publicly available and monitoring for	
	fraudulent testing sites	
Clinic	al management of COVID-19 and pandemic-related conditions	
1	Documenting and addressing long-haul symptoms of COVID (also known as 'long COVID'), among	
1	people without severe COVID (including the long-term effects of COVID-19 on the body) and/or long-	
	term sequelae of severe COVID, and refining treatment and support strategies based on the benefits for	
	patients and in relation to other health-system needs	
2	Optimizing packages of COVID-19 treatments including drug treatments, respiratory support (including	
	pulse oximetry), and physical interventions such as proning	
3	Understanding COVID-19 as a ' syndemic ' that co-occurs with a range of other communicable and non-	
	communicable diseases that differentially affect population groups, and adjusting supports accordingly	
4	Screening for and managing emergent mental health and substance use issues, including trauma, for the	
	general population and for specific population groups (healthcare workers in particular), and understanding	
	the links between substance use and pandemic-related increases in domestic violence and suicide	
5	Understanding the protective effects of antibodies (e.g., duration of protection) and the role of auto-	
	antibodies in more severe illness	
Healtl	n-system arrangements	
1	Optimizing vaccine roll-out, including securing and distributing a reliable supply of vaccines and ancillary	
	supplies, allocating vaccines and ancillary supplies equitably, communicating vaccine-allocation plans and the	
	safety and effectiveness of vaccines (and addressing the factors that contribute to vaccine hesitancy in	
	particular population groups), administering vaccines in ways that optimize timely uptake (including tailoring	
	vaccine messaging appropriately to racialized and vulnerable groups), adapting vaccine-dosing strategies in	
	response to variantsof concern, and surveillance, monitoring and evaluation, and reporting (including the	
	documentation of vaccination status and adverse events)	
2	Addressing in an agile way health worker shortages, motivation and wellbeing, including strategies to build	
_	resilience, manage burnout, and recruit and retrain staff	
3	Restoring non-COVID services after surges (including prioritizing and sequencing service restoration based	
	on risk) and addressing the effects of interrupted care on people with chronic conditions, including those	
1	with rare diseases	
4	Leveraging primary care as the foundation for the health-system response to COVID-19	
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Rank	Prioritized topics from panel	
5	Strategic purchasing of supplies and equipment (e.g., personal protective equipment and liquid nitrogen	
	for vaccine storage)	
6	Consolidating and optimizing the value achieved through shifts in virtual care (including developing or	
	updating of legal frameworks and policies)	
7	Strengthening health-system governance (including by addressing corruption and avoiding the politicization	
	of decision-making processes and developing adaptive governance and learning capacity	
New	Pandemic impacts on trust relationships in health systems with potential consequences for future health	
	system development	
Economic and social responses		
1	Financial protection – Enhancing economic security by addressing pandemic-related job losses and	
	adjusting 'safety nets' (and keeping in mind differential impacts on women and other vulnerable populations)	
	and enhancing workforce development (in healthcare, charities and private businesses)	
2	Food safety and security – Addressing food supply-chain challenges and food insecurity, including both	
	community-based and nationally led actions	
3	Economic development and growth – Embracing new approaches to public financing that support fairness	
	and equity (especially for women and other vulnerable populations) while avoiding fiscal cliffs (expiring tax	
4	cuts and government spending cuts) and debt traps	
4	Education - Benefits and risks to students, educators and families arising from school closures, re-openings, changes to operations (e.g., school-year adjustments) and pedagogical innovations (e.g., e-learning) that can	
	support ongoing education	
5	Economic development and growth – Understanding and addressing the impacts of the abrupt shift toward	
	nationalism as a governing strategy for the economy and of the 'new economy' imposed on many countries	
	by COVID-19	
6	Community and social services - Promoting children's resilience and recovery via social policy	
7	Transportation - Safely re-opening the tourism and travel industry and managing the related risks (e.g.,	
	through testing protocols) and spill-over effects on other countries (e.g., testing requirements before travel)	
8	Climate action – Maximizing the opportunity for synergies between the COVID-19 response and climate	
	action, including exploring a 'green recovery'	
9	Culture and gender – Understanding the additional risks of gender-based and domestic violence arising	
	from restrictions and identifying appropriate ways to address such violence	
10	Citizenship - Linking citizen and community participation in pandemic planning, policymaking and	
	response with outcomes and capturing innovations in government approaches	
11	Transportation - Identifying best practices in restrictions on and supports for domestic and international	
	travel , particularly in light of differences in adherence (to public-health measures), infection, and vaccination	
12	Culture and gender – Confronting pandemic-induced or pandemic-exacerbated racism	
New	Economic development and growth – capturing and scaling innovations in government approaches (such as	
	better approaches to digital transformation and health and social care reform)	

Citation: Bullock HL, Al-Khateeb S, Sharma K, MacLean A, Lavis JN. Insights from COVID-END's global horizon-scanning panel meeting on 26 May 2021. Hamilton, Canada: COVID-19 Evidence Network to support Decision-making about COVID-19 (COVID-END); 7 June 2021