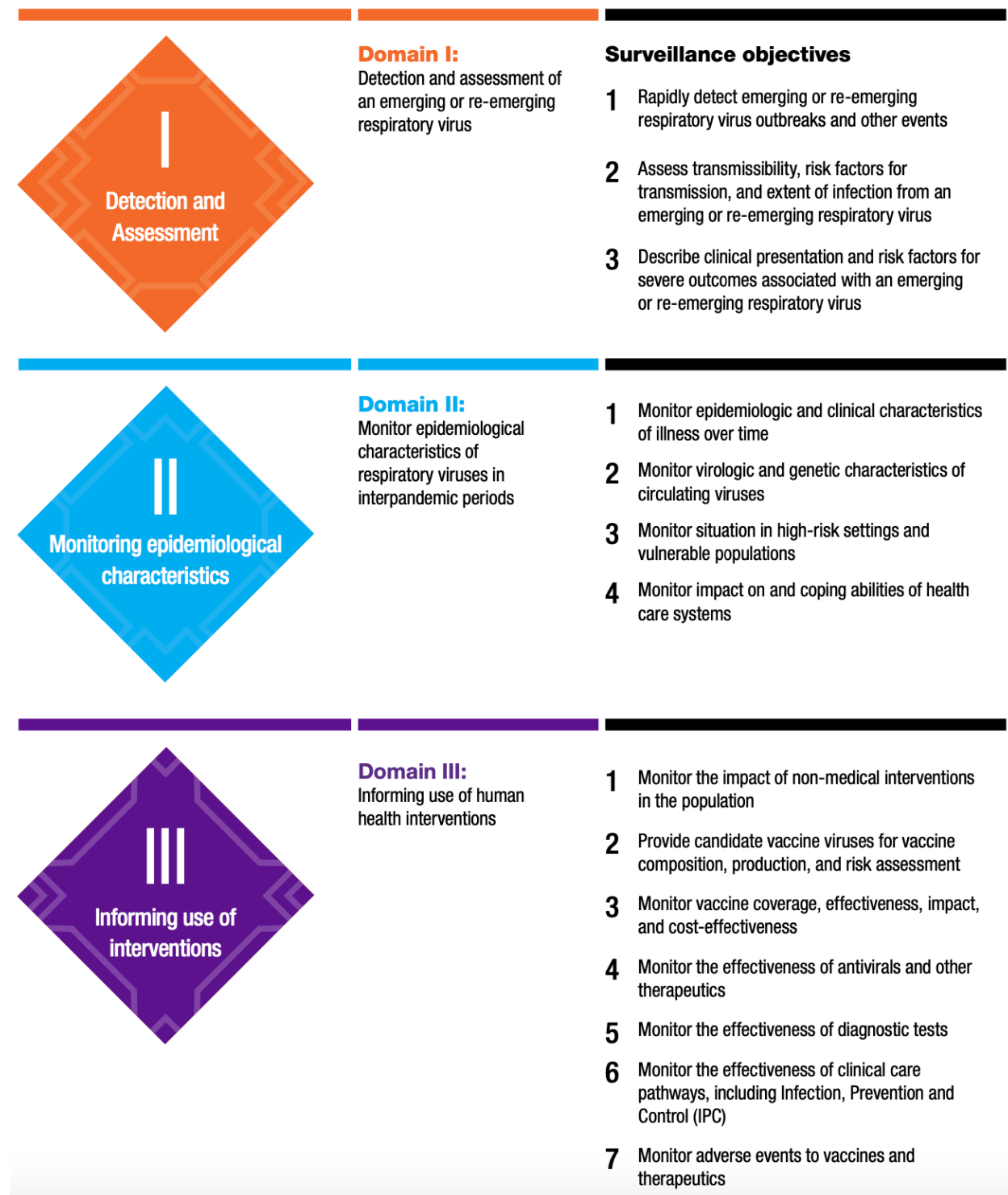


Appendix A: WHO Mosaic Framework

Figure 1. Summary of priority surveillance objectives for each domain of the WHO Mosaic Framework



Source: World Health Organization (WHO). “Crafting the mosaic”: a framework for resilient surveillance for respiratory viruses of epidemic and pandemic potential. Geneva: WHO; 2023. Figure 2, summary of priority surveillance objectives for each domain; p. 4. Available from: <https://iris.who.int/bitstream/handle/10665/366689/9789240070288-eng.pdf?sequence=1> Licence: CC BY-NC-SA 3.0 IGO.

Appendix B: Summary Table of Jurisdiction Results

Table 1: Summary of Surveillance Approaches by Jurisdiction

Surveillance Approach	ON	BC	AB	MN	QC	NS	NY	MI	EN	FR	NETH	GER	SA	AUS
Laboratory-based	✓ ^{abc}	✓ ^{abc}	✓ ^{abc}	✓ ^{abc}	✓ ^{abc}	✓ ^{abc}	✓ ^{abc}	✓ ^{abc}	✓ ^{abc}	✓ ^{ab}	✓ ^{abc}	✓ ^{abc}	✓ ^{abc}	✓ ^{abc}
Wastewater	✓ ^a	✓ ^a	✓ ^a	✓ ^a	✓ ^a	✓ ^a	✓ ^a	✓ ^a	✓ ^a		✓ ^a	✓ ^a	✓ ^a	✓ ^a
Clinical Syndromic - Emergency	✓			✓	✓	✓	✓	✓	✓					
Clinical Syndromic – Primary Care		✓			✓		✓	✓	✓	✓	✓	✓	✓	✓
Additional Syndromic*			✓	✓	✓	✓			✓	✓	✓	✓		✓
Ramp-up Process			✓ ^b											
Severity	✓ ^a	✓ ^{ab}	✓ ^a	✓ ^{ab}	✓ ^{ab}	✓ ^{ab}	✓ ^{ab}	✓ ^{ab}	✓ ^{ab}	✓ ^{ab}	✓ ^a	✓ ^{ab}		✓ ^{ab}
Healthcare Capacity**	✓ ^{ab}							✓ ^a	✓ ^a		✓ ^a			
High-risk settings	✓ ^{abc}		✓ ^{ab}	✓ ^a	✓ ^{ab}			✓ ^{ab}	✓		✓ ^{ab}			✓ ^a
Vulnerable Populations***				✓ ^b			✓ ^{ab}	✓ ^a	✓ ^a					✓ ^{ab}
Vaccine Coverage	✓ ^{ab}	✓ ^{ab}	✓ ^{ab}	✓ ^{ab}	✓ ^a	✓ ^b	✓ ^a	✓ ^{ab}		✓ ^b	✓ ^a	✓ ^a	✓ ^a	✓ ^a
Modelling		✓ ^a			✓ ^a				✓ ^a	✓ ^a		✓ ^a		

✓ approach is present in the jurisdiction

^aCOVID-19/SARS-CoV-2

^bInfluenza

^cRSV

* Any additional syndromic surveillance beyond emergency and primary care clinical surveillance

** Only included if healthcare capacity is specific to one of the viruses of interest

*** Only included if data includes demographics beyond sex/gender and/or age

ON = Ontario; BC = British Columbia; AB = Alberta; MN = Manitoba; QC = Quebec; NS = Nova Scotia; NY = New York; MI = Michigan; EN = England; FR = France; NETH = The Netherlands; GER = Germany; SA = South Africa; AUS = Australia

About the Ontario Public Health Emergencies Science Advisory Committee

The Ontario Public Health Emergencies Science Advisory Committee (OPHESAC) is a group of independent, multi-disciplinary experts whose role is to enhance provincial capacity to respond to a spectrum of public health emergencies with the best available evidence. OPHESAC provides independent scientific advice to Public Health Ontario to inform the management of public health emergencies, including COVID-19. For more information about OPHESAC and its members, visit the [OPHESAC webpage](#) or contact communications@oahpp.ca.

OPHESAC Members

Dr. Upton Allen, Chair
Professor of Pediatrics
University of Toronto

Dr. Eric Kennedy
Associate Professor of Disaster & Emergency
Management
York University

Dr. Na-Koshie Lamptey
Deputy Medical Officer of Health
City of Toronto

Dr. Christopher Mushquash,
Professor and Canada Research Chair,
Department of Psychology
Lakehead University

Dr. Aaron Orkin
Associate Professor of Family Medicine,
Emergency Medicine, and Public Health
University of Toronto

Dr. Stephanie Premji
Associate Professor at the School of Labour
Studies in the Faculty of Social Sciences
McMaster University

Dr. Lynda Redwood-Campbell
Professor of Family Medicine and Director of
Global Health Postgraduate Medical Education
McMaster University

Dr. Gilla Shapiro
Psychologist
Princess Margaret Cancer Centre

Dr. Marek Smieja
Infectious Disease Physician and Microbiologist
St. Joseph's Healthcare Hamilton and Hamilton
Health Sciences

Dr. Maxwell J. Smith
Bioethicist and Assistant Professor School of
Health Studies
Western University

Dr. Kednapa Thavorn
Senior Scientist and Scientific Lead of Health
Economics
Ottawa Hospital Research Institute

Dr. Ingrid Waldron,
Professor and HOPE Chair in Peace and Health,
Global Peace and Social Justice
McMaster University

Dr. J. Scott Weese
Veterinary Internist and Professor
Ontario Veterinary College
University of Guelph

Acknowledgements

OPHESAC acknowledges the contribution of the Working Group members, including Dr. Marek Smieja (Co-Chair), Dr. Nisha Thampi (Co-Chair), Dr. Maxwell Smith, Dr. Eric Kennedy, Dr. Chris Mushquash, Dr. Doug Manuel, Dr. Charles Hui, Dr. J. Scott Weese, Dr. Tiffany Fitzpatrick, Karen Johnson, Romy Olsha, Dr. Maan Hasso, Dr. Karam Ramotar, Dr. Fiona Kouyoumdjian, Dr. Michelle Murti, Dr. Paul Hébert (Scientific Director), and Dr. Kieran Quinn (Assistant Scientific Director). OPHESAC would also like to acknowledge its Secretariat and PHO staff from the Scientific Advisory Committee Support, Stakeholder Relations, Communications Services, Library Services, and Product Development and Publishing teams.

Citation

Ontario Public Health Emergencies Science Advisory Committee. Environmental scan: respiratory virus surveillance systems. Toronto, ON: King's Printer for Ontario; 2023.

Disclaimer

This document was prepared by the Ontario Public Health Emergencies Science Advisory Committee (OPHESAC) for Public Health Ontario. OPHESAC provides evidence-based advice to Public Health Ontario to inform the management of public health emergencies, including COVID-19. OPHESAC work is guided by the evidence available at the time this document was prepared. The application and use of this document is the responsibility of the user. PHO assumes no liability resulting from any such application or use. This document may be reproduced without permission for non-commercial purposes only and provided that appropriate credit is given to PHO. No changes may be made to this document without prior and expressed written permission from PHO.

Questions about the information in this document can be sent to communications@oahpp.ca.

© King's Printer for Ontario, 2023