## Public-health measures

### Infection prevention
- Vaccination
  - Safety and efficacy of two doses of the same vaccine if two doses are recommended (or a single dose if a single dose is recommended)
  - Safety and efficacy of one dose of one vaccine and a second dose of a different vaccine (i.e., mix and match or heterologous prime and boost)
- Dosing and efficacy
- Personal protection
  - Safety and efficacy of one dose if two doses are recommended
- Safety and efficacy of three doses if two doses were recommended before the emergence of variants
- Effectiveness when administered at large scale
- Efficacy/effectiveness by population segment
- Complementary vaccines
- Supporting discovery of a vaccine to prevent COVID-19 in general, and for specific population groups
- Personal protection
  - Washing hands
  - Wearing masks
  - Wearing personal protective equipment
  - Disinfecting surfaces and facilities
  - Physical distancing
  - Temporal distancing
  - Altering sexual activities
  - Public-focused behavior-change supports for the above
- Health worker and essential worker-focused behaviour change supports for the above
- Other

### Infection control
- Screening
  - Targets
  - Methods
  - Locations (and frequency if applicable)
- Testing
  - Optimizing testing across different types of individuals, settings and timing options
  - Methods used in the test
  - Methods (type of specimen)
  - Methods (site from where specimen is taken)
- Susceptibility tracking
  - Antibody testing
  - Antibody test usage
- Contact tracing

### Broader public-health measures
- Risk stratification
  - Stratifying the population by risk of infection
- Outreach management
- Locations (essential services or others)
- Rapid-response mechanisms
- Pandemic tracking
  - Levels of re-emergence that trigger action

### Clinical management of COVID-19 and pandemic-related health issues

#### Prophylaxis for COVID-19
- Drugs to prevent severe COVID-19 infection

#### Clinical treatment of COVID-19
- Assessing most important prognostic factors
- Drugs to treat COVID-19
- Blood products
  - Convalescent plasma
  - Hyperimmune immunoglobulin
- Ventilation for COVID-19
  - Invasive ventilation
  - Non-invasive ventilation
- Pneumonia
- Other treatments for COVID-19
- Other aspects of critical care for COVID-19
  - Management of cardiovascular complications
  - Management of renal complications
  - Management of respiratory complications
  - Management of other complications
  - Community-based treatment of COVID-19 and community-based home monitoring
- Complementary and alternative therapies

#### Management of COVID-19 with a syndemic orientation

### Treatment of post-COVID conditions
- Treatment of long COVID-19 symptoms
- Treatment of multiorgan effects
- Treatment of the effects of COVID-19 treatment or hospitalization
- Treatment of COVID-19 sequelae

### Clinical management of pandemic-related impacts on health more generally
- Interrupted management of other types of urgent care
- Interrupted management or poor self-management of chronic conditions
- Management of COVID-19 alongside other infectious diseases
- Management considerations for chronic and other existing health conditions
  - Chronic conditions

### Health promotion more generally
- Eating healthy food
- Avoiding or minimizing unhealthy behaviours like smoking or excessive alcohol intake
- Remaining physically active
- Staying socially connected

### Health-system arrangements

#### Cross-cutting system arrangements
- Approach to COVID-19 vaccine roll-out
  - 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

#### Delivery arrangements
- Overall service planning for COVID-19
  - Leveraging existing health-system arrangements
- Service planning for COVID-19 prevention
  - Changing emergency-medical service procedures (ambulances, paramedics)
  - Re-locating hospital-based ambulatory clinics, cancer treatments, etc.
- Limiting access to health facilities
- Changing hospital-discharge procedures
- Changing long-term care procedures
- Changing home and community care procedures
- Service planning for COVID-19 treatment
  - Scaling up/down testing capacity
  - Scaling up/down emergency-room capacity
  - Scaling up/down ICU capacity
  - Scaling up/down post-ICU recovery capacity (e.g., hospital beds)
  - Scaling up/down palliative-care capacity
  - Scaling up/down COVID-19 sequelae-management capacity

### Administration
- Administering vaccines in ways that optimize timely uptake
- Surveillance, monitoring, evaluation and reporting
- Approach to population-health management for COVID-19 and for those whose care is disrupted by COVID-19
- Segmenting the population into groups with shared health and social needs
- Re-designing care pathways and in-reach and out-reach services
- Addressing barriers to implementation of pathways and services
- Addressing cultural safety in the implementation of pathways and services
- Maintaining gains made in population-health management (e.g., population segmentation, virtual care) and spreading and scaling them

### Allocation
- Allocating vaccines and ancillary supplies
- Securing and distributing a reliable supply of vaccines and ancillary supplies
- Other aspects of critical care for COVID-19
  - Antenatal care
  - Childbirth
  - Post-partum care
  - Newborn care
  - Contraception
  - Termination services

### Service planning
- Service planning for COVID-19
  - Leveraging existing health-system arrangements
- Service planning for COVID-19 prevention
  - Changing emergency-medical service procedures (ambulances, paramedics)
- Re-locating hospital-based ambulatory clinics, cancer treatments, etc.
- Limiting access to health facilities
- Changing hospital-discharge procedures
- Changing long-term care procedures
- Changing home and community care procedures
- Service planning for COVID-19 treatment
  - Scaling up/down testing capacity
  - Scaling up/down emergency-room capacity
  - Scaling up/down ICU capacity
  - Scaling up/down post-ICU recovery capacity (e.g., hospital beds)
  - Scaling up/down palliative-care capacity
  - Scaling up/down COVID-19 sequelae-management capacity
<table>
<thead>
<tr>
<th>Economic and social responses</th>
<th>Children and youth services</th>
<th>Citizenship</th>
<th>Education</th>
<th>Climate action</th>
<th>Community and social services</th>
<th>Financial protection</th>
<th>Government services</th>
<th>Housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>o Service planning for ‘return to normal’</td>
<td>o Sequencing of services re-starting, by sector, conditions, treatments (including diagnostics), and populations</td>
<td>o Community engagement</td>
<td>o Online instruction</td>
<td>o Climate-action focused economic stimulus</td>
<td>o Shopping and other services for socially isolated individuals</td>
<td>o Income replacement</td>
<td>o Transitioning to e-services</td>
<td>o Homeless shelters</td>
</tr>
<tr>
<td>o Financial arrangements</td>
<td>o Wait-lists management</td>
<td>o Civil-rights violations</td>
<td>o Student supports</td>
<td>o Community and social services</td>
<td>o Religious services restrictions (e.g., church, mosque or synagogue)</td>
<td>o Debt relief for businesses</td>
<td>o Other congregate living environments</td>
<td>o Other congregate living environments</td>
</tr>
<tr>
<td>o Financing health services</td>
<td>o Remunerating providers</td>
<td>o Elections</td>
<td>o Instructor supports</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Tax deferral for businesses</td>
<td>o Housing alternatives when quarantine or physical distancing is needed</td>
<td>o Housing alternatives when quarantine or physical distancing is needed</td>
</tr>
<tr>
<td>o Funding organizations</td>
<td>o New or adjusted fee codes for virtual care</td>
<td></td>
<td>o Classroom changes</td>
<td>o Community and social services</td>
<td></td>
<td></td>
<td></td>
<td>o ‘Return to normal’</td>
</tr>
<tr>
<td>o Remunerating providers</td>
<td>o Income replacement when virtual care is not possible (at the same scale)</td>
<td></td>
<td></td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Financial protection</td>
<td>o Government services</td>
<td>o Infrastructure</td>
</tr>
<tr>
<td>o Purchasing products and services</td>
<td>o Purchasing products and services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Income replacement</td>
<td>o Community and social services</td>
<td>o Broadband internet access</td>
</tr>
<tr>
<td>o Guardianship arrangements (who can make what decisions)</td>
<td>o Consumer and stakeholder involvement</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Wage subsidies for essential workers</td>
<td>o Community and social services</td>
<td>o Cyber-security protocols for governments and businesses (see financial protection for protecting citizens from financial scams)</td>
</tr>
<tr>
<td>o Professional authority</td>
<td>o Licensure changes to accommodate out-of-jurisdiction or retired health workers</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Debt relief for citizens</td>
<td>o Community and social services</td>
<td>o Green-space re-allocations to accommodate physical distancing</td>
</tr>
<tr>
<td>o Commercial authority</td>
<td>o Technology approvals, public-private partnerships</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Tax deferral for citizens</td>
<td>o Community and social services</td>
<td>o Road-space re-allocations to accommodate physical distancing</td>
</tr>
<tr>
<td>o Organizational authority</td>
<td>o Limits of number of staff sent in</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Financial-scam prevention</td>
<td>o Community and social services</td>
<td>o Domestic production capacity for critical supplies</td>
</tr>
<tr>
<td>o Ownership</td>
<td></td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Broader consumer protection</td>
<td>o Community and social services</td>
<td>o Natural resources</td>
</tr>
<tr>
<td>o Economic development and growth</td>
<td>o Economic development and growth</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Food safety and security</td>
<td>o Community and social services</td>
<td>o Price collapses</td>
</tr>
<tr>
<td>o Economic resilience</td>
<td>o Targeted support to most affected industries</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Agricultural processes</td>
<td>o Community and social services</td>
<td>o Distribution difficulties</td>
</tr>
<tr>
<td>o Interest rate reductions</td>
<td>o Interest-free or -reduced loans to businesses</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Food processing plant design</td>
<td>o Community and social services</td>
<td>o Public safety and justice</td>
</tr>
<tr>
<td>o Interest-free or -reduced loans to businesses</td>
<td>o Revolving credit lines</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Food transportation adjustments</td>
<td>o Community and social services</td>
<td>o Curfews</td>
</tr>
<tr>
<td>o Revolving credit lines</td>
<td>o Corporate bond buying (by government)</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Food shopping changes</td>
<td>o Community and social services</td>
<td>o Enforcement of public-health measures</td>
</tr>
<tr>
<td>o Corporate bond buying (by government)</td>
<td>o Government bond buying (by central banks)</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Household food security</td>
<td>o Community and social services</td>
<td>o Public demonstrations</td>
</tr>
<tr>
<td>o Government bond buying (by central banks)</td>
<td>o Rent relief for businesses (by government)</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Food handling practices</td>
<td>o Community and social services</td>
<td>o Police work in pandemics</td>
</tr>
<tr>
<td>o Rent relief for businesses (by government)</td>
<td>o Debt relief for businesses (by government)</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Government services</td>
<td>o Community and social services</td>
<td>o Prisons</td>
</tr>
<tr>
<td>o Debt relief for businesses (by government)</td>
<td>o Debt relief for governments (e.g., by IMF)</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Government services</td>
<td>o Community and social services</td>
<td>Recreation</td>
</tr>
<tr>
<td>o Debt relief for governments (e.g., by IMF)</td>
<td>o Tax deferral for businesses</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Government services</td>
<td>o Community and social services</td>
<td>o Public spaces like parks</td>
</tr>
<tr>
<td>o Tax deferral for businesses</td>
<td>o ‘Return to normal’</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Community and social services</td>
<td>o Supports for community resilience</td>
<td>o Government services</td>
<td>o Community and social services</td>
<td>o Private spaces like gyms</td>
</tr>
</tbody>
</table>

This work is licensed under a Creative Commons Attribution-NonCommercial 4.0 International License.