### 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)
    - 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
  - 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 behavior change supports for the above
    - Other
  - Service limitations

- **Infection control**
  - Screening
    - Targets
    - Methods
    - Locations (and frequency if applicable)

- **Quarantining of exposed or potentially exposed individuals**
- **Voluntary or imposed**
- **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)
  - Speeding results
    - Isolation of suspected or confirmed cases
    - Contact tracing
    - Susceptibility tracking
    - Antibody testing
    - Antibody test usage

- **Broader public-health measures**
  - Risk stratification
    - Stratifying the population by risk of infection
  - Outbreak management
  - Location (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
  - Screening and testing for COVID-19 (see public-health measures)
  - Drugs to treat COVID-19
    - Anti-virals (see list of drugs)
    - Other antimicrobials (antibiotics, antimalarials, antiparasitics)

- **Anti-inflammatory drugs**
  - Steroids
  - Corticosteroids
  - Biologics
  - Others
  - Blood products
  - Convalescent plasma
  - Hyperimmune immunoglobulin
  - Ventilation for COVID-19
  - Invasive ventilation
  - Non-invasive ventilation
  - Proning
  - 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
  - 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**
  - 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
  - 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

- **Delivery arrangements**
  - Overall service planning for COVID-19 preventing and treatment
  - 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
## Program and service areas

- **Scaling up/down capacity to manage the pandemic-related impacts on health more generally (e.g., mental health and addictions)**
- **Surge-management models**
- **Triage protocols**
- **Infection prevention and control measures in health facilities**
- **Death certification**
- **Handling dead bodies**
- **Service planning for the ongoing management of other conditions**
- **Changing acute care surgery and trauma-care procedures**
- **Changing cancer-treatment procedures**
- **Changing reproductive care**
- **Delaying return visits, elective procedures, etc.**
- **Infrastructure planning and resource management**
  - Personal protective equipment (under shortage conditions), including N95 respirators for health workers
  - Ventilators for sick COVID-19 patients
  - Medications and other technologies (under shortage conditions due to disrupted supply chains)
  - Remote monitoring
  - Virtual visits
- **Workforce planning (including workforce shortages management) and development**
  - Recruitment
  - Role extensions
  - Training in new procedures
  - Replacements when sick
  - Re-deployment
  - Supports to unpaid caregivers
  - Volunteer engagement
  - Self-management supports

### Economic and social responses

#### Children and youth services

- **Citizenship**
  - Community engagement
  - Civil-rights violations
  - Elections

#### Education

- **Online instruction**
- **Student supports**
- **Instructor supports**
- **Classroom changes**

#### Climate action

- **Climate-action focused economic stimulus**

#### Community and social services

- **Shopping and other services for socially isolated individuals**
- **Religious services restrictions (e.g., church, mosque or synagogue)**
- **Supports for community resilience**

#### Culture and gender

- **Stigma reduction**
- **Domestic and gender-based violence reduction**
- **Arts and cultural institutions**
- **Religious institutions and practices**

#### Economic development and growth

- **Economic resilience**
- **Targeted support to most affected industries**
- **Interest rate reductions**
- **Interest-free or -reduced loans to businesses**
- **Revolving credit lines**
- **Corporate bond buying (by government)**
- **Government bond buying (by central banks)**
- **Rent relief for businesses (by government)**
- **Debt relief for businesses (by government)**
- **Debt relief for governments (e.g., by IMF)**
- **Tax deferral for businesses**

#### Governance arrangements (who can make what decisions)

- **Consumer and stakeholder involvement**
- **Professional authority**
  - Licensure changes to accommodate out-of-jurisdiction or retired health workers
- **Commercial authority**
  - Technology approvals, public-private partnerships
- **Organizational authority**
  - Limits of number of staff sent in
  - **Ownership**

- **Service planning for ‘return to normal’**
- **Sequencing of services re-starting, by sector, conditions, treatments (including diagnostics), and populations**
- **Wait-lists management**

### Infrastructure

- **Broadband internet access**
  - Cyber-security protocols for governments and businesses
  - (see financial protection for protecting citizens from financial scams)
- **Green-space re-allocations to accommodate physical distancing**
- **Road-space re-allocations to accommodate physical distancing**
- **Domestic production capacity for critical supplies**

### Natural resources

- **Price collapses**
- **Distribution difficulties**

### Public safety and justice

- **Curfews**
- **Enforcement of public-health measures**
- **Public demonstrations**
- **Police work in pandemics**
- **Prisons**

### Recreation

- **Public spaces like parks**
- **Private spaces like gyms**

### Transportation

- **Quarantining travellers**
- **Public transportation rules**
- **Private transportation restrictions**
- **Tourism planning for ‘return to normal’**

### Food and nutrition

- **Food handling practices**
- **Household food security**
- **Food shopping changes**
- **Food transportation adjustments**
- **Food processing plant design**

### Financial protection

- **Income replacement**
- **Wage subsidies for essential workers**
- **Rent deferral for citizens**
- **Debt relief for citizens**
- **Financial-scam prevention**
- **Broader consumer protection**

### Health and addictions

- **Handling dead bodies**
- **Infection prevention and control measures in health facilities**
- **Triage protocols**
- **Surge planning**

### Housing

- **Homeless shelters**
- **Other congregate living environments**
- **Housing alternatives when quarantine or physical distancing is needed**

### School changes

- **Skill re-development programs**
- **Service planning for ‘return to normal’**

### Employment

- **Worker supports**
- **Workplace changes**
- **Building changes**
- **Service planning for ‘return to normal’**

### Energy supply

- **Environmental conservation**
  - **Fire bans due to limitations in and risk for firefighting personnel**

### Research

- **Remote monitoring**
- **Distributed trials**
- **Large-scale epidemiological studies**
- **Randomized controlled trials**
- **Economic and social responses**

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