

# Pandemic Preparedness Response

Administrative Module



# Introduction

- Pandemic preparedness requires investments in personnel, planning, training, anticipatory policy development, physical plant infrastructure
- The following captures lessons learned from the COVID-19 (SARS Coronavirus 2) pandemic to inform an ongoing Pandemic Preparedness Response.
- Administrative preparation is divided into three phases: Pre-pandemic preparation, Pandemic response, and Recovery from Pandemic
- The final section in this deck includes critical preparation for exposure risk reduction in the format of the Hierarchy of Controls

## Pre-Pandemic Phase

Disease-specific [Control Plan](#) (update periodically)

Establish [departmental emergency action plans](#)

[Population-specific preparation](#) (see modules in this website section)

Establish routine supply chain MOUs: urgent/emergent PPE, laboratory, cleaning & disinfection, hand hygiene supply/product delivery

Establish:

- Staffing agency MOUs
- Redeployed worker training strategies

## Pandemic Phase

Establish [Hospital Incident Command](#) (HICS)

Conduct [surveillance/reporting](#)

Optimize [isolation](#) capacity, including

- Capacity expansion and monitoring
- space repurposing

Implement [departmental emergency plans](#)

Implement [communications](#) strategies

Develop/implement disease- and population-specific [clinical guidance](#) (policies/ procedures/ workflows)

Establish [strategies](#) for:

- Screening
- Testing
- Vaccination delivery
- Patient transfers
- Staffing, including redeploying workers

## Recovery Phase

Establish tiered approach to [re-introduce](#) staff, patients, visitors, students, faculty, vendors

Establish tiered approach to returning [spaces](#) to pre-pandemic uses

Establish tiered approach to [rescinding](#) control measures

[Debrief](#) to identify improvement opportunities and future planning and preparation

Pre-Pandemic Phase



# Pre-Pandemic Preparation: Control Plan Elements (1)

- Program administration, authority statement
- Contact information (institutional, public health)
- Pathogen transmission modality and associated:
  - Engineering controls
    - Optimize and detail appropriate space for patients (e.g., list of all AIIR)
    - Detail appropriate spaces, healthcare personnel (HCP) (e.g., identify alternate break or work rooms, should physical distancing be necessary)
    - Establish cadence and strategy to ensure spaces are compliant (e.g., testing, observation)
  - Administrative controls
    - Detail screening, testing, entry restrictions for HCP, patients, visitors, students, researchers
    - Develop/implement isolation strategy
    - Optimize tiered communications strategies
    - Ensure HCP education and compliance with controls strategies
    - Detail population-specific patient flow strategies
    - Address core department safety strategies (e.g., NFS, EVS, Lab)

# Pre-Pandemic Preparation: Control Plan Elements (2)

- Pathogen transmission modality and associated:
  - Personal Protective Equipment (PPE) requirements
    - Ensure adequate, appropriate and flexible supply
      - invest in emergency stockpiles
      - FIFO inventory management to ensure stockpile is in-date
    - Complete HCP testing (e.g., fit testing, elastomeric fitting)
    - Detail standard approach compliant with regulatory and public health guidance
    - Detail specialty requirements (e.g., aerosol-generating procedures)
- Detail decedent handling

# Pre-Pandemic Preparation: Departmental Emergency Action Plans (EAP)

- Write, submit and socialize departmental EAP, including:
  - Strategy to redeploy staff
  - Strategy to re-instate staff
  - Strategy to support remote work
  - Strategy to maintain staff safety during pandemic
  - Succession planning
  - Operations assignments
  - Communications strategies
  - Training strategies

# Pre-Pandemic Preparation: Population-Specific Guidance

- Guidance documents are located here:  
<https://infectioncontrol.ucsfmedicalcenter.org/resources>
- Guidance documents include:
  - Specialty care unit development
  - Critical care unit preparation
  - Perioperative and Procedural care preparation
  - Ambulatory care preparation
  - General unit care
- Pandemic-specific web-based workflows and algorithms  
<https://infectioncontrol.ucsfmedicalcenter.org/coronavirus>



Pandemic Phase



# Pandemic Phase: Hospital Incident Command

- Goal: muster necessary personnel and supplies for response
- Establish before imminent threat potential exists
  - Senior leadership establishes
  - Identify necessary human resources for immediate response
  - Establish initial communications strategies and cadence, refine as needed
  - Evaluate public health information to guide response
  - Ensure core service representation

# Pandemic Phase: Surveillance and Reporting

- Responsible Parties:
  - Occupational Health Services (OHS) (Students, Staff, Faculty)
  - Hospital Epidemiology and Infection Prevention (HEIP) (Patients, Visitors)
- Responsibilities:
  - Establish isolation, infection and exposure criteria/definitions, based on public health guidance
  - Establish review and response criteria, cadence, cross-communication
  - Establish notification, follow-up and reporting standard operating procedures (internal, external)
  - Monitor developments and update leadership of significant changes

# Pandemic Phase: Optimize Isolation Capacity

- Responsible Parties:
  - Facilities Management
  - Safety
  - HEIP
- Responsibilities
  - Evaluate need to implement established patient isolation capacity expansion plans
  - Identify locations for planned patient isolation capacity expansion
  - Implement engineering modifications to achieve isolation capacity expansion
  - Monitor established and expanded locations for compliance with requirements
  - Identify appropriate spaces for safe HCP work-related support (e.g., break, work room)
  - Communicate with senior leadership re: capacity limits, constraints

# Pandemic Phase: Communications

- Responsible Parties (among others):
  - HEIP      OHS      Service Excellence
  - HICS      Care Delivery workgroup
- Responsibilities:
  - Establish controls, cadence, audiences and media for messaging
  - Confirm point personnel for messaging
  - Review and confirm content
  - Evaluate effectiveness of selected media (consider layered approach for significant reach to UCSF community)
  - Consider push and pull strategies: email, pandemic-focused website, video updates (e.g., “Town Hall”), population-targeted (e.g., Health, Community)
  - Ensure location-specific decisions are reviewed by dependent departments

# Pandemic Phase: Clinical Guidance

- Responsible Parties
  - Population service leaders (e.g., Periop, Ambulatory, Pediatric, HCP)
    - Consider establishing Clinical Guidance workgroup (Medical Technical Specialists)
  - HEIP
  - OHS
- Responsibilities:
  - Establish clinical guidance for population-focused care, including patient transitions (e.g., admission, discharge, transfer)
  - Evaluate, detail and communicate workflows for testing, screening, treatment (and treatment delay), vaccination for pandemic disease (see link below)
  - Establish and detail concomitant care delivery for non-pandemic disease

Recovery Phase



# Recovery Phase: Reintroducing Persons

- Responsible Parties
  - Care delivery-focused leaders (e.g., Periop, Critical/Acute/Ambulatory Care)
  - HEIP
  - OHS
  - Human Resources
- Responsibilities
  - Establish tiered approach for equitable reintroducing people on-site, considering:
    - Disease case rates
    - Vaccination status
    - Disease-recovered status
  - Communicate reopening strategies across populations (e.g., HCP, patients)



# Recovery Phase: Returning to Pre-Pandemic Space Use

- Responsible Parties

- |                  |              |                         |
|------------------|--------------|-------------------------|
| • Med Ctr FM     | Campus FM    | OHS                     |
| • Safety         | Space owners | Care delivery workgroup |
| • Emergency Mgmt | HEIP         |                         |

- Responsibilities

- Refer to public health guidance for establishing institutional reopening tiers
- Establish equitable space reinstatement

# Recovery Phase: Rescinding Control Measures

- Responsible Parties

- Emergency Management HICS Laboratory (micro, pathology)
- Safety OHS Senior executive team
- HEIP Communications Infectious Diseases

- Responsibilities

- Review policies/workflows established during pandemic
- Review regulatory and public health restrictions
- Communicate changes swiftly and thoroughly

- Suggested governance workgroups:

- Clinical care delivery Testing
- Communications PPE resilience
- Reopening

# Recovery Phase: Debrief

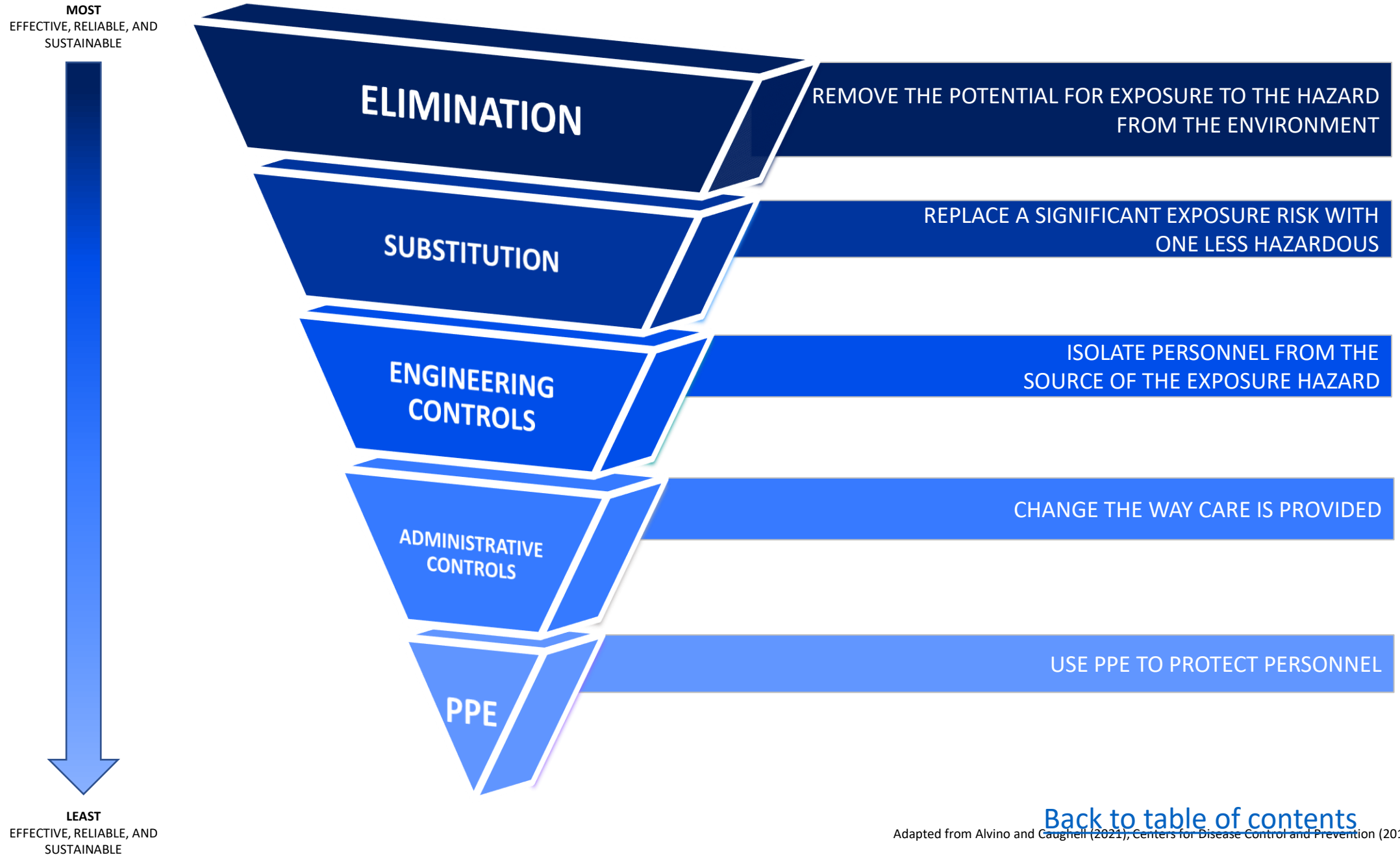
- Responsible Parties

- Emergency Management            HICS
- Safety                                    OHS
- HEIP                                      Care delivery workgroup

- Responsibilities

- Review and evaluate decisions, actions, strategies implemented, outcomes
- Identify and implement elements to incorporate into routine workflows
- Identify and memorialize elements to incorporate into future pandemic responses

# Hierarchy of Controls: Pandemic Preparation and Response



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## ELIMINATION

REMOVE THE POTENTIAL FOR EXPOSURE TO THE HAZARD  
FROM THE ENVIRONMENT

- Monitor reports of unusual communicable disease clusters (global)
  - Escalate concerning threats to senior leadership
- Develop tiered approach to care delivery
  - Develop/establish testing strategies to identify potentially communicable people
  - Establish triggers for suspending services based upon threat of increasing local transmission
- Develop tiered approach to communications: (tiered cadence, distribution methods, responsibilities for acquiring/packaging information)



## SUBSTITUTION

REPLACE A SIGNIFICANT EXPOSURE RISK WITH  
ONE LESS HAZARDOUS

- Consider alternatives to in-person care when possible
  - Virtual visits
  - Outdoor testing sites
- Expedite in-person visits
  - Evaluate alternate workflows or locations that do not require patient waiting or queueing
  - Consider extending hours to accommodate lower patient density
- Consider excluding non-essential people
  - Visitor exclusion
  - Pause volunteer program
  - Normalize and support remote working as possible

- Ensure sufficient negative pressure isolation patient care rooms in inpatient and ambulatory locations
  - Respiratory Support Clinics (RSCs)
  - Manipulate air handling to support additional Airborne Infection Isolation Rooms (AIIRs), with associated testing and documentation
  - Consider building more AIIRs than code requires in new construction (inpatient and ambulatory)
  - Shared documentation of air changes per hour and time to clearance for patient care and work spaces (centralized monitoring preferred)
  - Calculated and documented processes for and library of easily converted patient care and work spaces
  - Identify floors, wings, areas that can support negative pressure isolation



CHANGE THE WAY CARE IS PROVIDED

- Determine thresholds for pausing programs (e.g., surgeries, clinics)
- Develop strategies for redeploying workers to alternate work
  - Screening                      Coaching                      Observing
  - Testing                              Training                      Consider rehiring essential retirees
  - Policy/procedure/workflow development and implementation
- Establish new programs for institutional and public health response
- Develop alternate and standardized workflows to limit exposure
  - Pre-procedure/pre-admission screening/testing
  - Pre-visit screening
  - Periodic testing for admitted patients
- Develop and expand testing platforms; establish interpretive guidance for results





## USE PERSONAL PROTECTIVE EQUIPMENT (PPE) TO PROTECT PERSONNEL

- Develop stockpile strategies for anticipated shortages; rotate stock to prevent material aging and out-dating)
  - Respirators (fit-tested N95, elastomeric, PAPR, etc.)
  - Gloves
  - Gowns
  - Masks
- Ensure variety of suppliers for commodity items
- Develop thresholds for ordering above allocation levels (event-related, urgent stockpiling)
- Reuse of single-use PPE
  - Determine thresholds to trigger reuse
  - Develop policies to support thresholds, decisions, implementation
  - Monitor technologies for reprocessing used PPE