

Opportunity & Innovation in a Time of Uncertainty:

How the University of Nebraska is Responding to the Global Pandemic



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University of Nebraska
Medical Center



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UNMC Global Ctr Health Security



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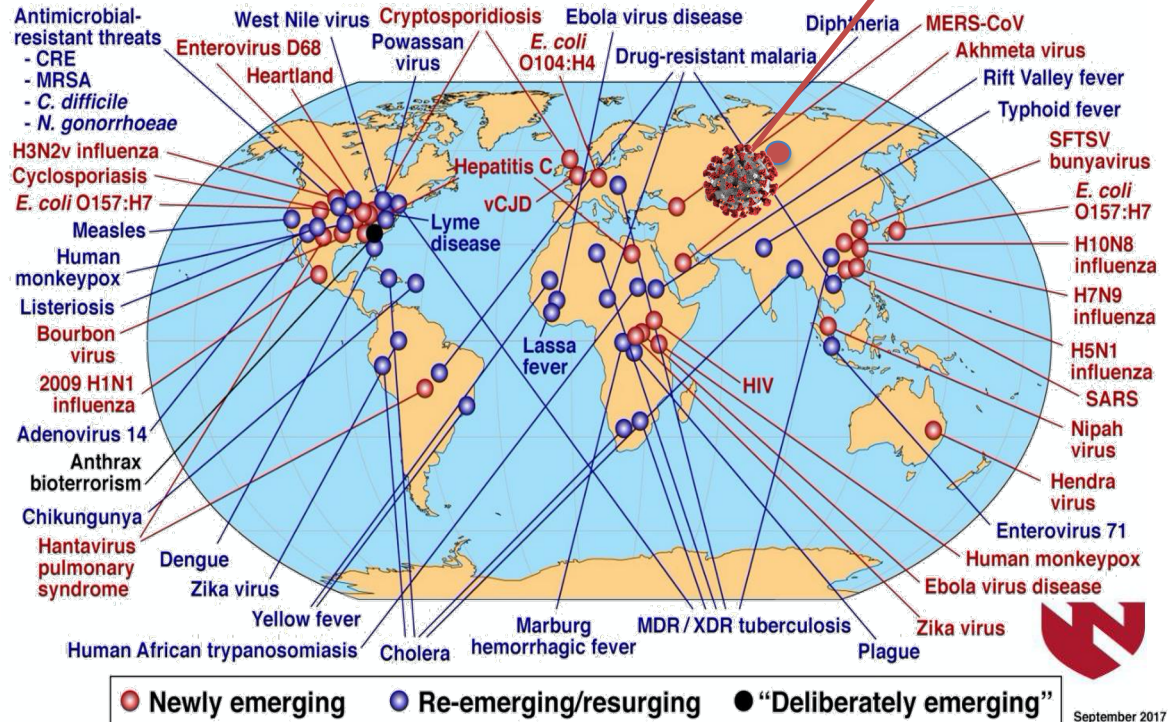
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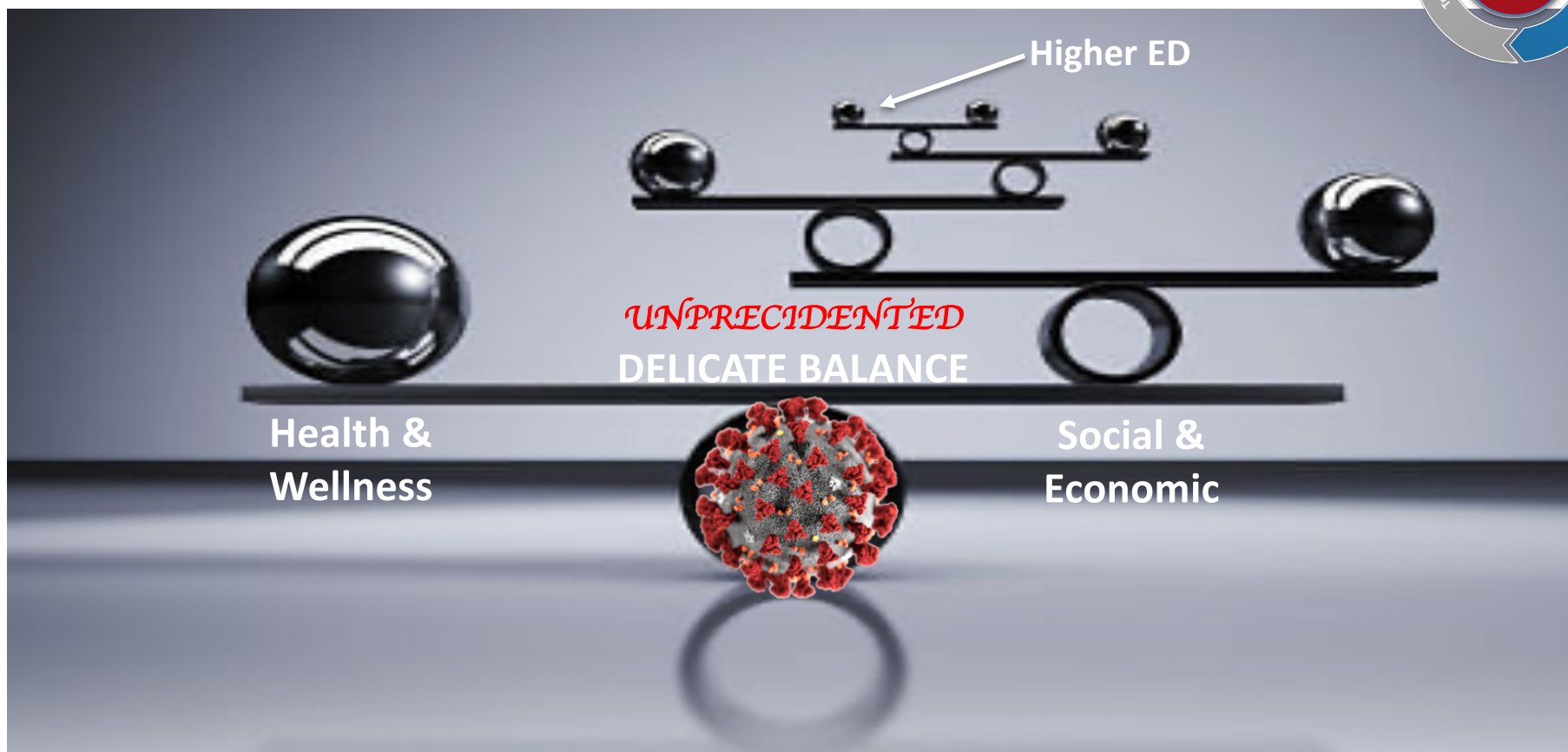
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Global Examples of Emerging and Re-Emerging Infectious Diseases

**COVID -19
SARS COV-2**

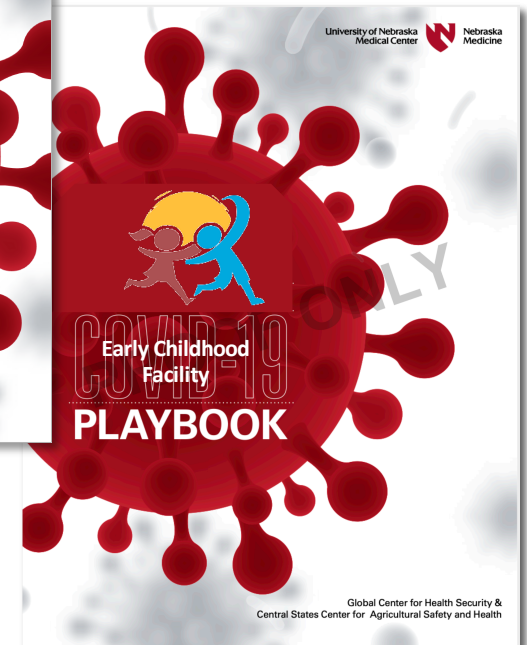
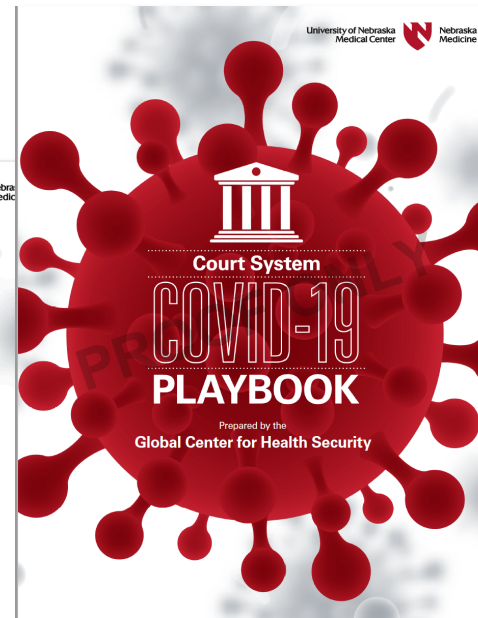
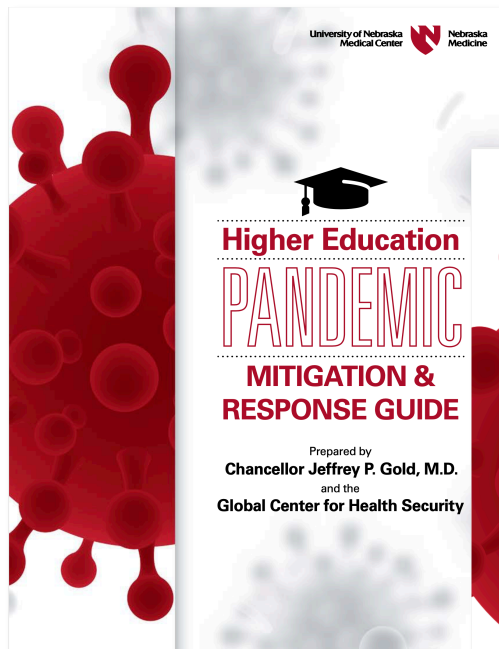


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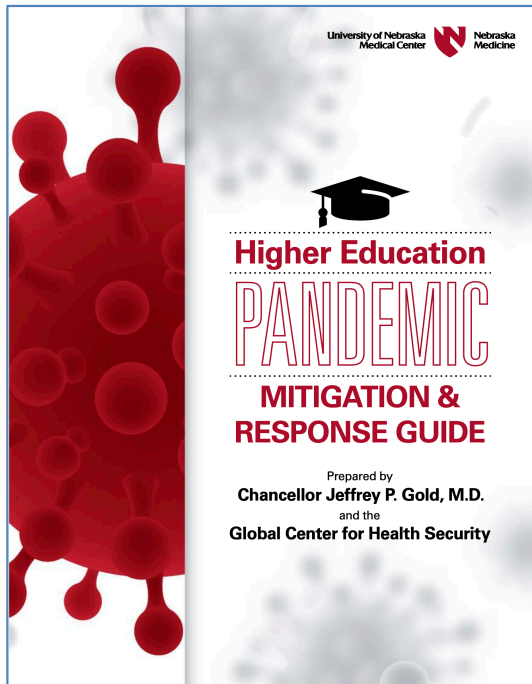




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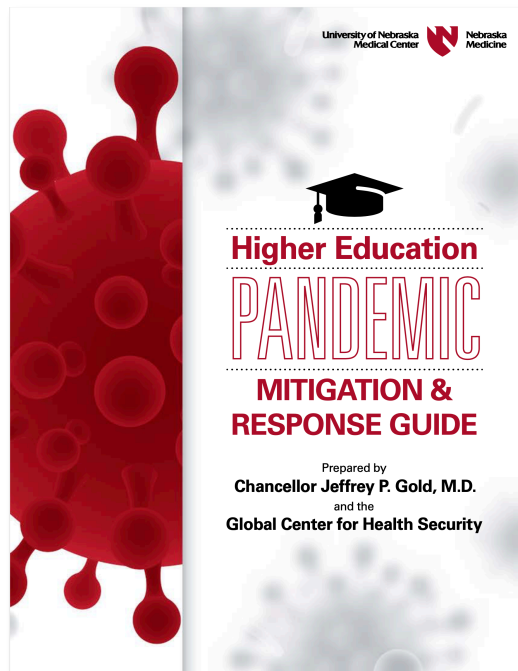


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Key Recovery Community Mitigation Actions Delicate Public Health-Social Economic Balance



1. Scientifically based decisions
 1. Testing, testing & testing
 2. Genetic, antibody & viability
2. Real time data driven decisions
 1. Disease Control
 2. Health Care Capacity
 3. Supplies & Workforce
3. Regionally determined decisions
4. Multistaged at >14 day intervals
5. Vaccine and antiviral availability



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Higher Education PANDEMIC MITIGATION & RESPONSE GUIDE

Prepared by
Chancellor Jeffrey P. Gold, M.D.
and the
Global Center for Health Security

GLOBAL CENTER FOR HEALTH SECURITY | NMC PRAM COVID-19 Daily Acceleration Trends: June 8, 2020 | PRAM

The Nebraska GCHS PRAM Index

Pandemic Recovery Acceleration Model
PRAM

COVID-19 PANDEMIC
Metrics, Trends & Acceleration Index

RECOVERY RISK

Global Center for Health Security
1000 University Research Center
Lincoln, NE 68582-0001
(402) 476-1000 | www.gchsc.com

GLOBAL CENTER FOR HEALTH SECURITY | UNMC PRAM COVID-19 Daily Acceleration Trends: June 8, 2020 | PRAM

NEBRASKA PRAM DAILY DISEASE DASHBOARD

PRAM COVID Daily Rolling Average
Nebraska New Cases

PRAM COVID Daily Rolling Average
Nebraska Percent Positive Tests

PRAM COVID Daily Rolling Average
Nebraska New Deaths

Nebraska PRAM Confirmed Case Index (CCI)

Nebraska PRAM Percent Positive Test Index (PPTI)

Nebraska PRAM Confirmed Death Index (CDI)

GLOBAL CENTER FOR HEALTH SECURITY | UNMC PRAM COVID-19 Daily Acceleration Trends: June 8, 2020 | PRAM

NEBRASKA PRAM DAILY AGGREGATED ACCELERATION DASHBOARD

| PRAM Dashboard for NEBRASKA | PRAM TODAY BENCHMARK | PRAM TODAY METRIC | PRAM VELOCITY BENCHMARK | PRAM TODAY VELOCITY |
|-----------------------------|----------------------|-------------------|-------------------------|---------------------|
| Confirmed Case Index | <19.3 | 235.7 | <1.0 | 0.82 |
| % Positive Test Index | <5.0 | 8.9 | <1.0 | 0.79 |
| Confirmed Death Index | <0.39 | 0.7 | <1.0 | 0.69 |
| Hospital Beds Index | <429 | 173.7 | <1.0 | 0.80 |
| ICU Beds Index | <146 | 54.3 | <1.0 | 0.75 |
| Ventilator Use Index | <153 | 48.3 | <1.0 | 0.79 |
| Recovery Composite Index | <1.5 | 0.78 | <1.0 | 0.96 |
| Recovery Ratio Index | 0.5-1.5 | 1.01 | <1.0 | 0.88 |

PRAM Dashboard for Nebraska

Disease Risk

PRAM Dashboard for Nebraska

Recovery Risk

GLOBAL CENTER FOR HEALTH SECURITY | UNMC PRAM COVID-19 Daily Acceleration Trends: June 8, 2020 | PRAM

NEBRASKA PRAM DAILY RESOURCE DASHBOARD

PRAM COVID Daily Rolling Average
Nebraska Current Hospital Beds

PRAM COVID Daily Rolling Average
Nebraska Current ICU Beds

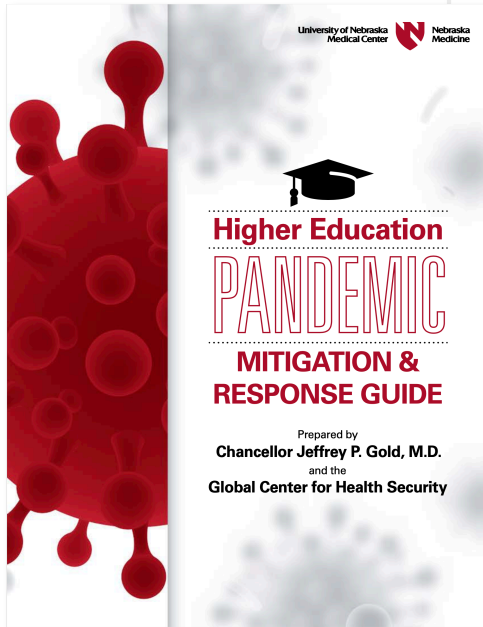
PRAM COVID Daily Rolling Average
Nebraska Current Ventilators

Nebraska PRAM Hospital Beds Index (HBI)

Nebraska PRAM ICU Beds Index (IBI)

Nebraska PRAM Ventilator Use Index (VUI)

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**Higher Education
PANDEMIC
MITIGATION &
RESPONSE GUIDE**

Prepared by
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HIGHER EDUCATION MITIGATION & RESPONSE GUIDE COVID-19 PANDEMIC RECOVERY CHECKLISTS TABLE OF CONTENTS

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GENERAL CONSIDERATIONS

This document outlines a proposed checklist as a tool to guide higher education campuses COVID-19 management strategies and facilitate readiness during three different steps that are based on disease prevalence and stability of available campus and community resources. The checklist is intended to be used during each of the three steps, which will be a minimum of 14 days apart and possibly longer as the campus specific and community specific impacts of each step need to be fully understood before proceeding forward. The three steps which are suggested below, are based upon the ability to maintain full campus pandemic control with the levels of community pandemic control averaged for a minimum of 14 consecutive days for implementation of each step:

Campus & Regional Disease Prevalence & Resource Availability

- OR STEP 1:** Stable for >14 Days
- OR STEP 2:** Stable for >28 Days
- OR STEP 3:** Stable for >42 Days

The implementation of guidance provided through the checklist will depend upon routine availability of COVID-19 critical screening, access to health status evaluation for individuals, availability and use of virus detection (PCR from nasopharyngeal or possibly oral) specimens and antibody serologic testing, as well as availability of public health measures including timely case contact tracing. Recommended measures to be implemented are based on the hierarchy of controls, policies and considerations. This checklist provides preliminary guidance for the following sets of controls, policies and procedures, which in combination will enable institutions to assess their readiness to move between Steps 1 – 3 and beyond. It is anticipated that numerous aspects of these measures will endure far longer than the initial set of fourteen (day intervals and serve well in event of recurrence of potential future pandemics (zika and ebola).

Higher Education COVID-19 Pandemic Recovery Checklist Contents

1. Engineering Facility Controls, Policy & Procedure
2. Administrative Campus Controls, Policy & Procedures
3. Administrative, Coordination & Logistics
4. Universal Mask Use Policy and Procedures
5. Communication and Educational Programs
6. Guidance for Protection at Home & in the Community
7. Environmental Safety and Cleaning Policies
8. Active Screening of Learners, Faculty, Staff & Guests
9. Campus Physical Distancing Policy & Practice
10. Gathering and Personnel Workflow Movement Policy
11. Teaching and Learning Environment Policies & Practice
12. Research, Studio and Behavioral Science Policies & Practice
13. Business and Personal Travel Policy & Practice
14. Medical and Behavioral Health Policy & Practice
15. PCR Swab and Serologic Antibody Testing
16. Personal Protective Equipment Policy & Practice
17. Residence Hall and Campus Living Policy & Practice
18. Large Group Campus and Community Gatherings Policy
19. Off-Campus Experiential Learning Experiences
20. Clinical Experiential Learning
21. Non-Clinical Experiential Learning
22. Co-Curricular Programs & Campus Activities

2. ADMINISTRATIVE CAMPUS CONTROLS POLICY & PROCEDURES

Administrative controls are considered less effective than engineering controls but are the primary control measures available for COVID-19. These include policies, procedures, training, and campus practices. Ineffective policies and practices or inconsistent compliance may heighten exposure risks.

| OR STEPS | 2.1. ADMINISTRATION STRUCTURES, COORDINATION & LOGISTICS RECOMMENDATIONS: | |
|--------------------------|---|--------------------------|
| 1 | 2 | 3 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Limit off-campus visitors and guests as much as possible. All visitors and guests are to self-screen (preferably using a mobile device application) and have an accessible profile either on the mobile device or a hard copy that is updated by the individual within the past 24 hours.

Maintain an updated incident command structure with current contact information of campus leadership and outside resources for campus safety, health care, public health organizations and others.

Identify campus and facility leadership in critical areas, such as facilities engineering, instruction, student services, event planning, environmental services, public safety and health care. This group should convene frequently in a standing schedule and be available to deal with challenges and opportunities.

Public Health (PH) with responsibility for advising institutional (State, and national laws, policies, recommendations, and/or will serve as the coordinating hub for developing campus policies to ensure the well-being and safety of faculty, staff, and students, and ensure availability of resources devoted to public health with traditionally underserved communities and individuals with

Public Health (PH) that coordinates and supports campus health and equipment and implementation throughout the institution.

Public Health Campus Center: a specific location for learners, faculty and provide timely information, offer counseling and manage access assurance. Access and location to the Office of Public Health Campus is communicated and accessible through multiple modalities.

A campus clinical health center and community referral centers diagnosis and treatment of COVID-19 patients. Ensure confidential and secure, faculty and staff face clinical matters related to pandemic spread.

Adhere standard operating procedures (SOPs) that detail actions to faculty, staff or visitor is symptomatic for COVID-19 and/or tests positive to an individual positive for COVID-19. This should include:

- Isolation and contact tracing that parties who may have been exposed.
- Environmental services to facilitate rapid cleaning and disinfecting
- Notify and local authorities to take appropriate steps to prevent, necessary, quarantine/isolate or refer for treatment.
- All public health authorities to make emerging antiviral therapy and/or to in a timely way they become available.

Step 1: Stable for >14 days | Step 2: Stable for >28 days | Step 3: Stable for >42 days

EDUCATION PANDEMIC MITIGATION & RESPONSE GUIDE | 5

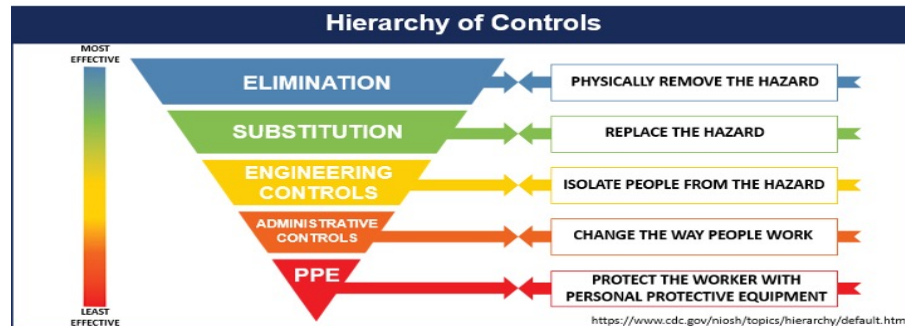
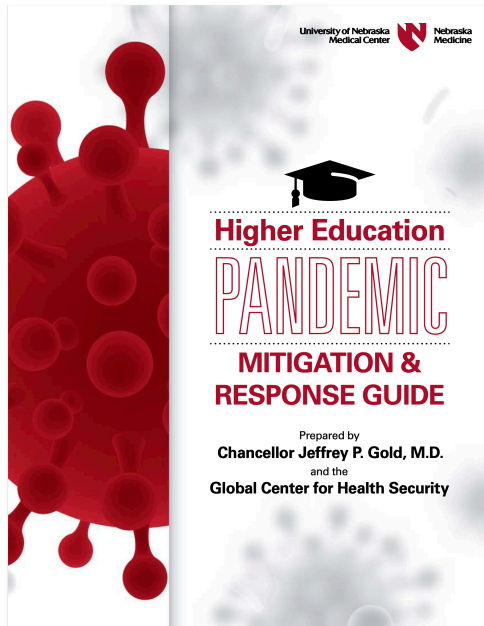


BIG

COVID-19 Pandemic Playbook
June 6, 2020

Version 1
WORKING DOCUMENT

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1-Engineering Facility Controls, Policy & Practice

Engineering Controls are controls that either remove hazardous conditions or place a barrier between the individual and the virus. These engineering controls are also directed to remove and/or reduce the droplet/aerosol spread of viral particles. They are not dependent on a person's knowledge, practice, or compliance; therefore, they reduce the opportunity for error. These recommended controls represent best practices; the more of them that can be implemented based on available resources, the lower the risk. However, it is recognized that every institution may not be able to institute each control for every building or situation.

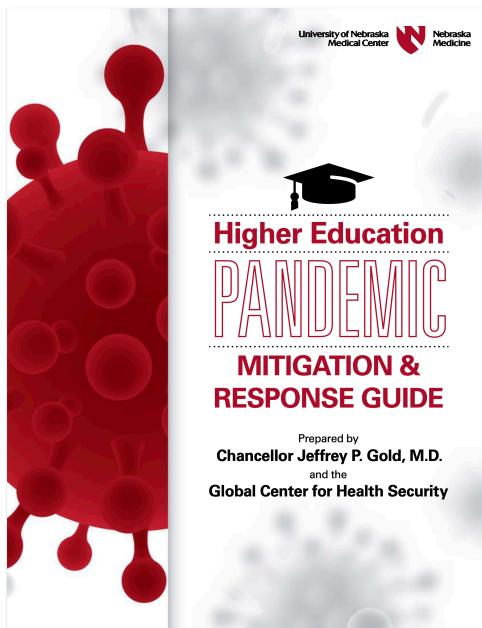
| STEPS | | | RECOMMENDATIONS | PRIMARY | UNePlan STATUS |
|-------------------------------------|--------------------------|--------------------------|--|-----------|-----------------------|
| 1 | 2 | 3 | ENGINEERING FACILITY CONTROLS POLICY & PRACTICE | | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Create dedicated facility entry and exit points. There may be several depending upon the building traffic patterns and the number of individuals entering and exiting. | L. Morgan | UNO 2021 IV:4:02- 20% |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Secure all facility entry and exit points, preferably with proximity ID cards, etc. | C. Evans | UNO 2021 IV:5:21- 85% |

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2-Administrative Campus Controls, Policy & Procedures

Administrative controls are considered less effective than engineering controls but are the primary control measures available for COVID-19. These include policies, procedures, training, and campus practices. Ineffective policies and practices or inconsistent compliance may heighten exposure risks.

2i-Administration Structures, Coordination and Logistics

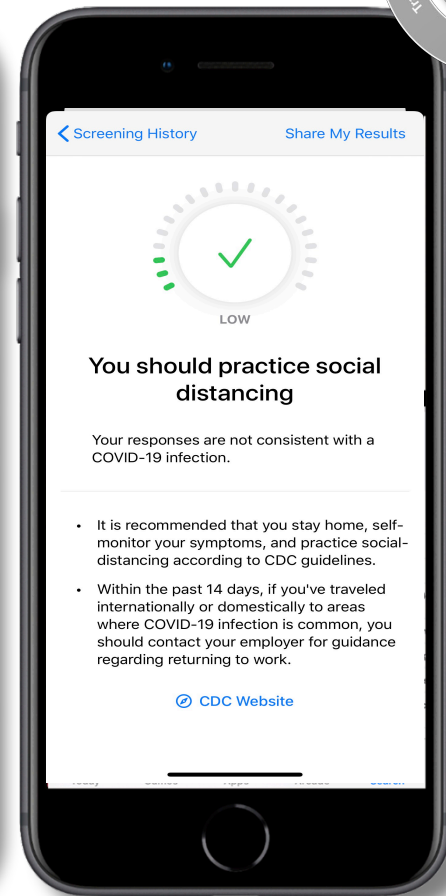
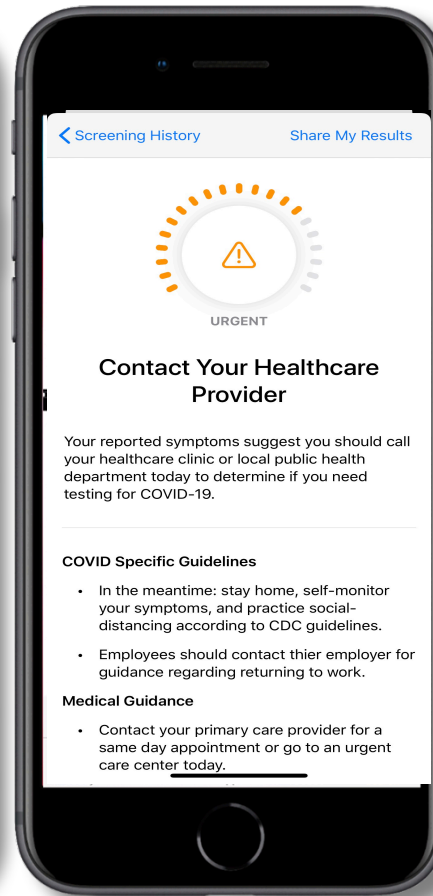
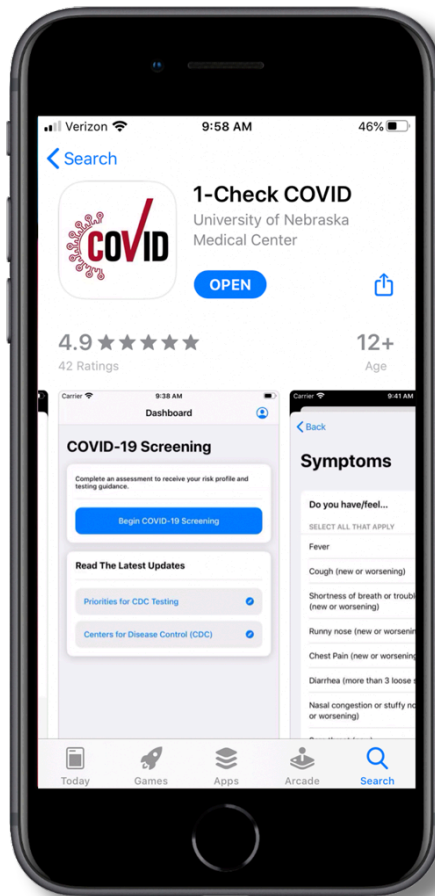


| STEPS | | | RECOMMENDATIONS | PRIMARY | UNePlan STATUS |
|--------------------------|--------------------------|--------------------------|---|---------|------------------------|
| 1 | 2 | 3 | ADMINISTRATION STRUCTURES, COORDINATION & LOGISTICS | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Establish an Office of Health Security (OHS) with responsibility for ensuring institutional compliance with local, State, and national laws, policies, recommendations, and/or guidelines. The OHS will serve as the coordinating hub for developing campus policies and procedures that help to ensure the wellness and safety of faculty, staff, and students. Specifically, the OHS will ensure accessibility of all resources devoted to public health and safety for individuals from traditionally underserved communities and individuals with disabilities. | | UNO 2021 IV:4:02- 100% |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Designate a Director of Health Security that coordinates and supports campus health and wellness strategy development and implementation throughout the institution. | | UNO 2021 IV:4:02- 90% |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Establish a "Office of Health Security Campus Center" a specific location for learners, faculty and staff. This center will provide timely information, offer counseling and manage access to key public health resources. Access and location to the Office of Health Security Campus Center should be widely communicated and accessible through multiple modalities. | | UNO 2021 IV:4:05- 20% |

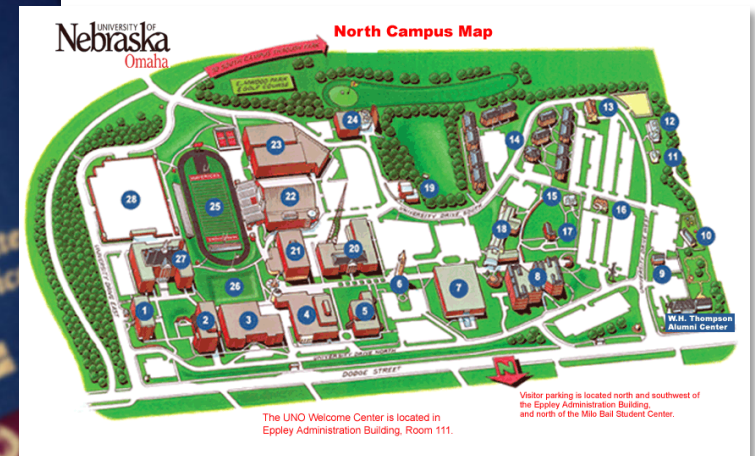
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1-Check COVID



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Key Professional & Pharmaceutical Interventions



1. COVID Test Deployment & Deployment
2. Antibody Test Deployment & Deployment
3. Routine ILI Syndromic Surveillance
4. Routine Contact Identification & Tracing
5. Single Reliable Data Collection & Sharing
6. Monitor for Secondary & Tertiary Rebounds
7. Antiviral Development & Deployment
8. Vaccine Development & Deployment
9. Develop Specific Mitigation & Response Guides
10. Advise on federal, state & community actions



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Key NPI's or Community Mitigation Actions

1. If you are ill, stay home; self isolate & notify health professional
2. If someone in your household is ill, stay home & self isolate
3. Reduce students from school, childcare, & group children's events
4. Reduce close contacts in the community and at work
5. Cancel lg gatherings, implement telework, create social distancing
6. Use face coverings / masks routinely inside & outside the home
7. Limit utilization of facilities, travel, workforce & supplies
8. Participate in self screening public health surveillance programs



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...for more information:

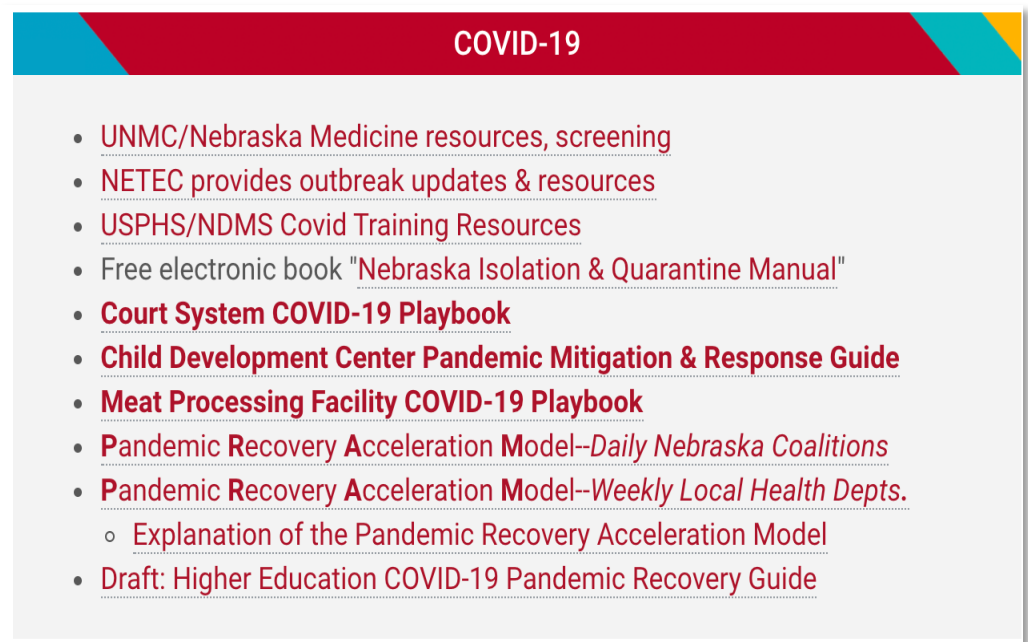
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COVID-19

- [UNMC/Nebraska Medicine resources, screening](#)
- [NETEC provides outbreak updates & resources](#)
- [USPHS/NDMS Covid Training Resources](#)
- [Free electronic book "Nebraska Isolation & Quarantine Manual"](#)
- [Court System COVID-19 Playbook](#)
- [Child Development Center Pandemic Mitigation & Response Guide](#)
- [Meat Processing Facility COVID-19 Playbook](#)
- [Pandemic Recovery Acceleration Model--Daily Nebraska Coalitions](#)
- [Pandemic Recovery Acceleration Model--Weekly Local Health Depts.](#)
 - [Explanation of the Pandemic Recovery Acceleration Model](#)
- [Draft: Higher Education COVID-19 Pandemic Recovery Guide](#)



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