

**Opportunity & Innovation in a Time of Uncertainty:**  
*How the University of Nebraska is Learning From and Responding to the Global Pandemic*

**JEFFREY P. GOLD, MD**  
 Chancellor UNMC & UNO & Chair, Nebraska Medicine

MIDWESTERN HIGHER EDUCATION COMPACT

University of Nebraska Medical Center | Nebraska Medicine

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**UNMC Global Ctr Health Security**

A global resource strategically focusing expertise in Clinical Care and Operations, driving innovations in Research and Development, Training and Education that refine and strengthen response to all hazard 21<sup>st</sup> century threats.

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**Global Examples of Emerging and Re-Emerging Infectious Diseases**

**Global Examples of Emerging and Re-Emerging Infectious Diseases**

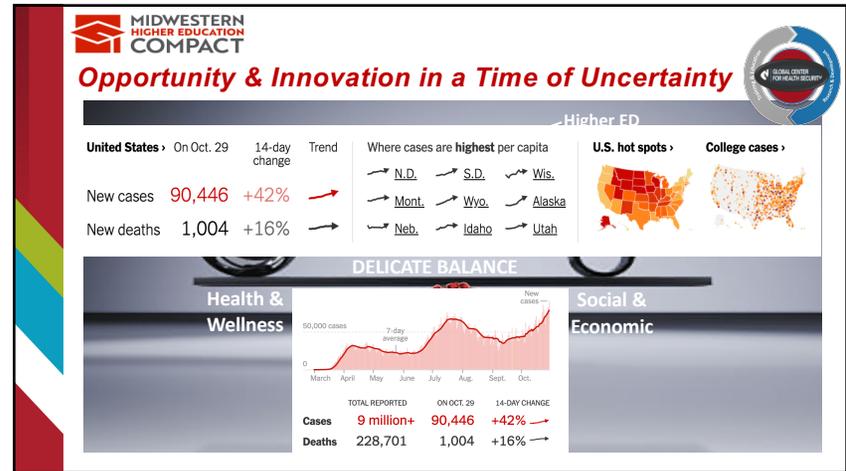
- Antimicrobial-resistant threats - CRE, MRSA, C. difficile, N. gonorrhoeae
- H5N2v influenza
- Cyclosporiasis
- E. coli O157:H7
- Measles
- Human monkeypox
- Listeriosis
- Sourwood virus
- 2009 H1N1 influenza
- Adenovirus 14
- Anthrax bioterrorism
- Chikungunya
- Hantavirus
- Dengue
- Zika virus
- Human African trypanosomiasis
- Yellow fever
- Cholera
- Marburg hemorrhagic fever
- MDR/XDR tuberculosis
- Plague
- Zika virus
- West Nile virus
- Enterovirus D68
- Heartland virus
- Cryptosporidiosis
- Powassan virus
- E. coli O104:H4
- Ebola virus disease
- Drug-resistant malaria
- Diphtheria
- MERS-CoV
- AMHeta virus
- Rift Valley fever
- Typhoid fever
- SFTSV
- Bunyavirus
- E. coli O157:H7
- H10N8 influenza
- H7N9 influenza
- HSN1 influenza
- SARS
- Nipah virus
- Hendra virus
- Enterovirus 71
- Human monkeypox
- Ebola virus disease

Legend: ● Newly emerging ● Re-emerging/resurging ● "Deliberately emerging"

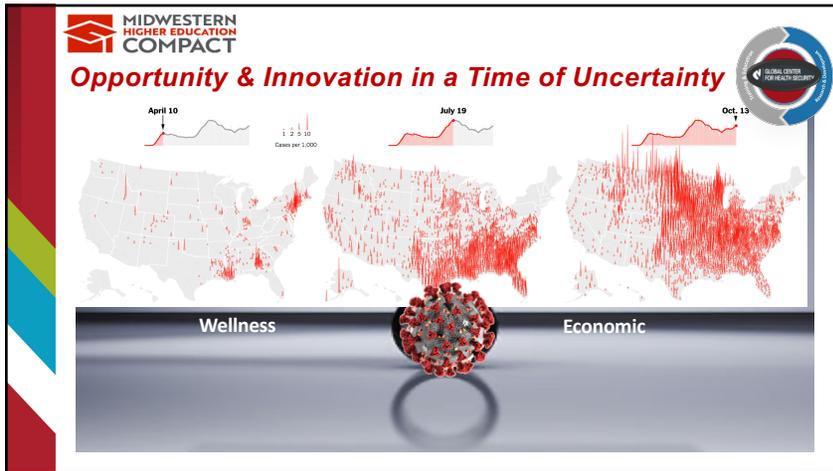
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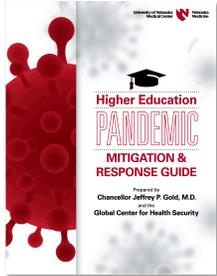


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**Key Recovery Community Mitigation Decisions**  
Delicate Public Health-Social Economic Balance



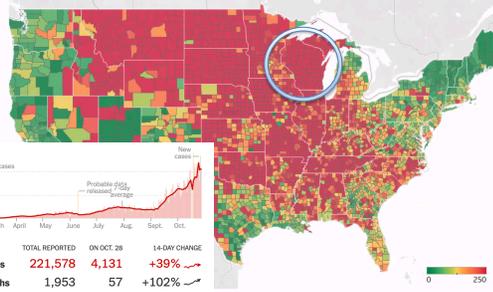
1. Scientifically based decisions
  1. Testing, tracing & testing
  2. Genetic, antibody & viability
2. Real time data driven decisions
  1. Disease Transmission Control
  2. Health Care System Capacity
  3. Workforce and Supply Chain
3. Regionally determined decisions
4. Multistage transition decisions
5. Vaccines and antivirals decisions

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**Over Last 14 Days...**



**Top 10 by New Confirmed Cases / 1M**

Brown County, WI	754
Lubbock County, TX	734
El Paso County, TX	709
Winnebago County, IL	577
Utah County, UT	505
Salt Lake County, UT	455
Waukesha County, WI	444
Milwaukee County, WI	437
St. Joseph County, IN	412
Douglas County, NE	395

**Top 10 by New Deaths**

Sarasota County, FL	9
St. Joseph County, IN	8
Hidalgo County, TX	8
Palm Beach County, FL	7
Pulaski County, AR	6
Webb County, TX	6
Cameron County, TX	6
Volusia County, FL	6
St. Lucie County, FL	6
Marion County, FL	5

**Summary Data:**

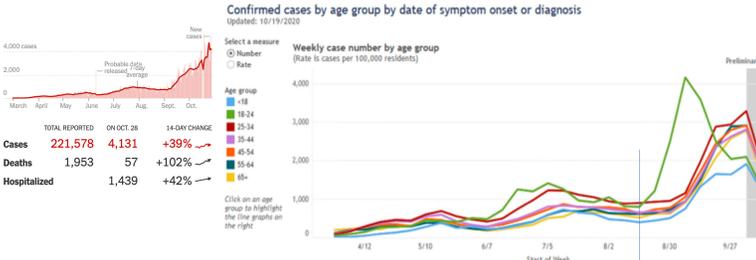
TOTAL REPORTED	ON OCT. 28	14-DAY CHANGE
Cases	221,578 4,131	+39%
Deaths	1,953 57	+102%
Hospitalized	1,439	+42%

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**Wisconsin COVID-19 Diagnosis by Age**



**Confirmed cases by age group by date of symptom onset or diagnosis**  
Updated: 10/19/2020

**Weekly case number by age group**  
(Rate is cases per 100,000 residents)

**Summary Data:**

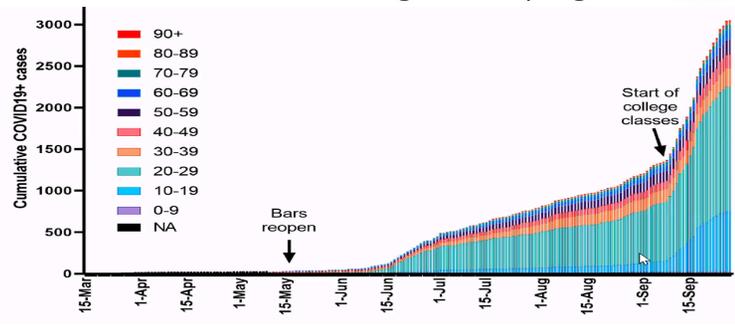
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**Wisconsin COVID-19 Diagnosis by Age**



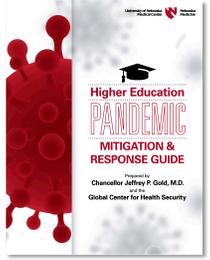
**Cumulative COVID-19+ cases**

Start of college classes

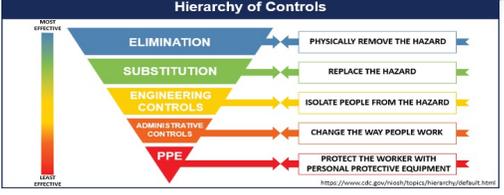
Bars reopen

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**PANDEMIC**  
 MITIGATION &  
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 Prepared by  
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 and the  
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**Hierarchy of Controls**

ELIMINATION	PHYSICALLY REMOVE THE HAZARD
SUBSTITUTION	REPLACE THE HAZARD
ENGINEERING CONTROLS	ISOLATE PEOPLE FROM THE HAZARD
ADMINISTRATIVE CONTROLS	CHANGE THE WAY PEOPLE WORK
PPE	PROTECT THE WORKER WITH PERSONAL PROTECTIVE EQUIPMENT

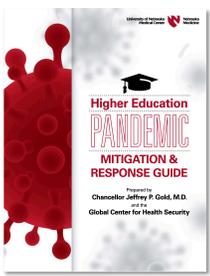
**1-Engineering Facility Controls, Policy & Practice**

Engineering Controls are controls that either remove hazardous conditions or place a barrier between the individual and the virus. These engineering controls are also designed to remove and/or reduce the discretionary control of their practices. 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 most 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.

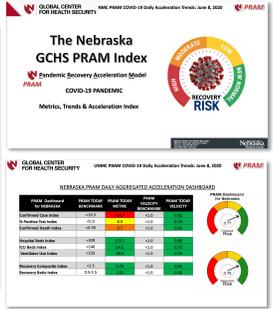
STEPS	RECOMMENDATIONS	PRIMARY	UNePlan STATUS
1	<b>ENGINEERING FACILITY CONTROLS POLICY &amp; PRACTICE</b>		
2	Create dedicated facility entry and exit points. There may be several depending upon the building traffic patterns and the number of individuals entering and exiting.	L. Morgan	UNO 2021 IV-4-02-20K
3	Secure all facility entry and exit points, preferably with proximity ID cards, etc.	C. Evans	UNO 2021 IV-5-21-80K

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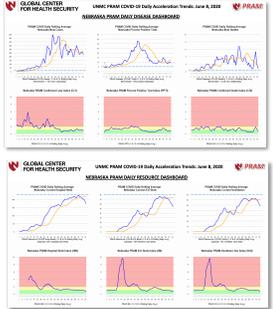
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**The Nebraska GCHS PRAM Index**  
 Evidemic Recovery Acceleration Model  
 COVID-19 PANDEMIC  
 Metrics, Trends & Acceleration Index



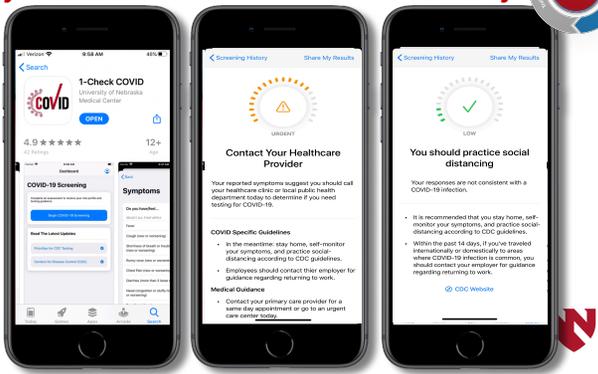
**NEBRASKA PRAM DAILY AGGREGATED ACCELERATION DASHBOARD**

PRAM Category	PRAM Score	PRAM Status	PRAM Trend	PRAM Action
Operational Risk	100	GREEN	UP	Low
Financial Risk	100	GREEN	UP	Low
Reputational Risk	100	GREEN	UP	Low
Academic Risk	100	GREEN	UP	Low
Human Resources	100	GREEN	UP	Low
Information Technology	100	GREEN	UP	Low
Business Operations	100	GREEN	UP	Low
Security	100	GREEN	UP	Low
Overall PRAM Index	100	GREEN	UP	Low

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**1-Check COVID**



1-Check COVID  
 University of Nebraska  
 Medical Center

4.9 ★★★★★  
 12+

COVID-19 Screening

**Symptoms**

Do you have...  
 Fever  
 Cough  
 Sore throat  
 Loss of taste or smell  
 Shortness of breath  
 Fatigue  
 Headache  
 Muscle aches  
 Nausea or vomiting  
 Diarrhea  
 Red, swollen, or irritated eyes  
 New skin rash or hives  
 Swollen lymph nodes  
 New or worsening asthma symptoms

**Contact Your Healthcare Provider**

Your reported symptoms suggest you should call your healthcare clinic or local public health department today to determine if you need testing for COVID-19.

**COVID-Specific Guidelines**

- In the meantime, stay home, self-isolate your symptoms, and practice social distancing according to CDC guidelines.
- Employees should contact their employer for guidance regarding returning to work.

**Medical Guidance**

- Contact your primary care provider for a same-day appointment or go to an urgent care center today.

**You should practice social distancing**

Your responses are not consistent with a COVID-19 infection.

- It is recommended that you stay home, self-isolate your symptoms, and practice social distancing according to CDC guidelines.
- Within the past 14 days, if you've traveled internationally or domestically to areas where COVID-19 infection is common, you should contact your employer for guidance regarding returning to work.

CDC Website

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**VISA**

BASED ON YOUR PASSPORT \* HOW OPEN IS YOUR WORLD?

**You should practice social distancing**

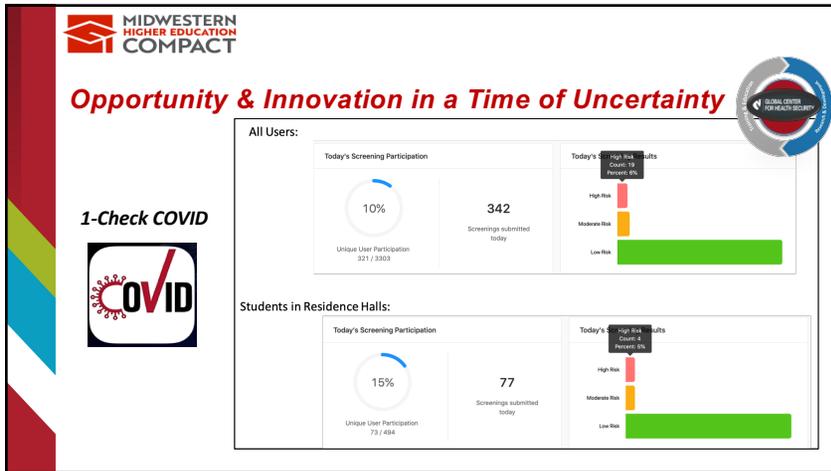
Your responses are not consistent with a COVID-19 infection.

- It is recommended that you stay home, self-isolate your symptoms, and practice social distancing according to CDC guidelines.
- Within the past 14 days, if you've traveled internationally or domestically to areas where COVID-19 infection is common, you should contact your employer for guidance regarding returning to work.



**Nebraska**  
 North Campus Map

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**Key Professional & Pharmaceutical Interventions**

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

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**Key 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. Participate in all reporting and contact tracing programs
4. Reduce student density in school, childcare, & group events
5. Reduce close contacts in the community and at places of work
6. Cancel large gatherings, implement telework, create social distancing
7. Use face coverings / masks routinely inside & outside the home
8. Appropriate utilization of medical facilities, workforce & supplies
9. Participate in self screening public health surveillance programs
10. Stay current on all currently available vaccination schedules

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**...for more information:**  
[unmc.edu/healthsecurity](http://unmc.edu/healthsecurity)

GLOBAL CENTER FOR HEALTH SECURITY

- 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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**DISCUSSION**

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