



UNIVERSITY OF  
**Nebraska**  
Medical Center

# UNMC ID ECHO Project to Reduce COVID-19 Health Disparities Through Quality Improvement

## Welcome to Session 4



Project Funded by Nebraska DHHS through a CDC grant



# Housekeeping Reminders

- Discussion makes sessions work best!
- Please stay muted unless you are speaking
- We love to see your face!
- Sessions will be recorded and available upon request
- Attendance is taken by filling the survey in the chat
  
- Reminder: Project ECHO collects registration, participation, questions and answers, chat comments, and poll responses for some ECHO programs. Your individual data will be kept confidential. This data may be used for reports, maps, communications, surveys, quality assurance, evaluation, research, and to create new initiatives.



# Subject Matter Experts

## Infectious Diseases Team

- M. Salman Ashraf, MBBS
  - Erica Stohs, MD, MPH
    - Anum Abbas, MD
- Kelly Cawcutt, MD, MS

## Quality Improvement Team

- Jeff Wetherhold, QI Consultant
  - Gale Etherton, MD
  - Mahliqha Qasimyar, MD

## Health Equity & Cultural Sensitivity Team

- Nada Fadul, MD
- Mahelet Kebede, HE & CS Consultant
  - Shirley Delair, MD
  - Jasmine Marcelin, MD
  - Andrea Jones, MD
- Precious Davis, Case Manager
- Samantha Jones, Program Manager



\*Ardis Reed, State QIN/QIO Representative

# CE Disclosures



# **UNMC ID Health Equity and Quality Improvement ECHO Project**

**Topics: Health Equity Historical Context and Quality Improvement  
Human Factors and Systems Thinking**

**Free Live ECHO Project  
December 15, 2021  
CID 53866**

**UNIVERSITY OF  
Nebraska**  
Medical Center

## TARGET AUDIENCE

This live activity is intended for physicians, APPs, nurses, social workers, case managers, and anyone else interested in learning about health equity in underserved populations.

## ACTIVITY DESCRIPTION

Achieving health equity, addressing COVID-19 disparities, and improving the health of all Nebraskans using a quality improvement approach are the goals for our newly launched educational initiative. This COVID-19-focused health equity and quality improvement educational series will use the ECHO model for training healthcare workers.

The course is being offered through the University of Nebraska Medical Center (UNMC) infectious diseases (ID) ECHO program and is funded by the Nebraska Department of Health and Human Services (DHHS) via a CDC grant.



# EDUCATIONAL OBJECTIVES

At the conclusion of this live activity, the participants should be better able to:

- Explain the role of human factors in work processes and error analysis in healthcare
- Describe systems thinking and how this relates to the Swiss Cheese Model
- List a historical example of medical racism.
- Recognize the present-day impact of historical medical experimentation.

## REQUIREMENTS FOR SUCCESSFUL COMPLETION

In order to receive continuing education credit/credits, you must:

1. Participate in the live activity via ZOOM. Your attendance will be tracked by the course facilitator.
2. Complete the overall evaluation
  - a. Instructions on how to access the overall evaluation will be provided on a quarterly basis.
  - b. Continuing education credits will be issued for activities you attended.

For questions regarding evaluation and attendance, please contact Nuha Mirghani, MD, MBA, HCM at [nmirghani@unmc.edu](mailto:nmirghani@unmc.edu)





# ACCREDITED CONTINUING EDUCATION



In support of improving patient care, University of Nebraska Medical Center is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

## PHYSICIANS/PHYSICIAN ASSISTANTS

The University of Nebraska Medical Center designates this live activity for a maximum of 1.5 *AMA PRA Category 1 Credit(s)*<sup>TM</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## NURSES/NURSE PRACTITIONERS

The University of Nebraska Medical Center designates this activity for 1.5 ANCC contact hour(s). Nurses should only claim credit for the actual time spent participating in the activity.



# ACCREDITED CONTINUING EDUCATION



As a Jointly Accredited Organization, University of Nebraska Medical Center is approved to offer social work continuing education by the Association of Social Work Boards (ASWB) Approved Continuing Education (ACE) program. Organizations, not individual courses, are approved under this program. State and provincial regulatory boards have the final authority to determine whether an individual course may be accepted for continuing education credit. University of Nebraska Medical Center maintains responsibility for this course. Social workers completing this live activity receive 1.5 interactive continuing education credits.



This program has been pre-approved by The Commission for Case Manager Certification to provide continuing education credit to CCM<sup>®</sup> board certified case managers.

The course is approved for 1.5 CE contact hour(s).

Activity code: I00048476 Approval Number: 210003843

To claim these CEs, log into your CCMC Dashboard at [www.ccmcertification.org](http://www.ccmcertification.org).



# DISCLOSURE INFORMATION

As a jointly accredited provider, the University of Nebraska Medical Center (UNMC) ensures accuracy, balance, objectivity, independence, and scientific rigor in its educational activities and is committed to protecting learners from promotion, marketing, and commercial bias. Faculty (authors, presenters, speakers) are encouraged to provide a balanced view of therapeutic options by utilizing either generic names or other options available when utilizing trade names to ensure impartiality.

All faculty, planners, and others in a position to control continuing education content participating in a UNMC accredited activity are required to disclose all financial relationships with ineligible companies. As defined by the Standards for Integrity and Independence in Accredited Continuing Education, ineligible companies are organizations whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients. The accredited provider is responsible for mitigating relevant financial relationships in accredited continuing education. Disclosure of these commitments and/or relationships is included in these activity materials so that participants may formulate their own judgments in interpreting its content and evaluating its recommendations. This activity may include presentations in which faculty may discuss off-label and/or investigational use of pharmaceuticals or instruments not yet FDA-approved. Participants should note that the use of products outside currently FDA-approved labeling should be considered experimental and are advised to consult current prescribing information for FDA-approved indications.

All materials are included with the permission of the faculty. The opinions expressed are those of the faculty and are not to be construed as those of UNMC.



# Disclosures

***The accredited provider has mitigated and is disclosing identified relevant financial relationships for the following faculty, planners, and others in control of content prior to assuming their roles:***

## FACULTY

The below faculty have nothing to disclose:

- Shirley Delair, MD, MPh
- Gale Etherton, MD, FACP
- Andrea Jones, MD
- Mahelet Kebede, MPH\*
- Mahliqha Qasimyar, MD
- Jeff Wetherhold, M.Ed\*

*\*Indicates on the planning committee*



# Disclosures

## PLANNING COMMITTEE

### **M. Salman Ashraf, MBBS**

*Merck & Co, Inc: Industry funded research/investigator*

### **Nada Fadul, MD**

*ViiV Healthcare: Advisory Committee/Board*

### **Erica Stohs, MD, MPH**

*ReViral Ltd.: Industry funded research/investigator*

The below planning committee members have nothing to disclose:

- Valeta Creason-Wahl, HMCC
- Precious Davis, MSN, BSN, RN
- Samantha Jones, CSW
- Nuha Mirghani, MD, MBA, HCM
- Renee Paulin, MSN, RN, CWOCN
- Bailey Wrenn, MA





[www.unmc.edu/cce](http://www.unmc.edu/cce)



# POLL



# Current State of COVID-19 in Nebraska





# Nebraska Statistics

## Cases

DAILY NEW CASES

● **47.7** PER 100K

INFECTION RATE

● **1.01**

POSITIVE TEST RATE

● **16.2%**



COUNTY POPULATION	DAILY NEW CASES PER 100K	INFECTION RATE	POSITIVE TEST RATE
1 ● Douglas Co. 570,000	● 48.7	● 1.04	● 17.0%
2 ● Lancaster Co. 320,000	● 51.0	● 1.05	● 7.2%
3 ● Sarpy Co. 190,000	● 53.3	● 1.00	● 16.2%
4 ● Hall Co. 61,000	● 39.6	● 0.98	● 17.9%
5 ● Buffalo Co. 50,000	● 53.5	● 0.95	● 23.4%



# Nebraska Statistics

Week	Daily New Cases/ 100K	Infection Rate	Positive Test Rate	Number of Hospitalizations	ICU Capacity Used	*Vaccinated 1+
11/01/21	29.6	1.03	12.8%	413	80%	61%
11/15/21	44.0	1.15	14.8%	455	86%	62%
12/1/21	38.1	0.94	17.6%	545	80%	64%
12/15/21	47.4	1.01	16.2%	637	85%	65%

\*Percent of the entire state population vaccinated, regardless of eligibility/age.



<https://covidactnow.org/us/nebraska-ne/?s=24951410>

[https://datanexus-dhhs.ne.gov/views/Covid/1\\_DailyCharts?%3AisGuestRedirectFromVizportal=y&%3Aembed=y](https://datanexus-dhhs.ne.gov/views/Covid/1_DailyCharts?%3AisGuestRedirectFromVizportal=y&%3Aembed=y)



COVID-19 Cases

Total Positive Cases

323,698

Total Tests

4,316,349

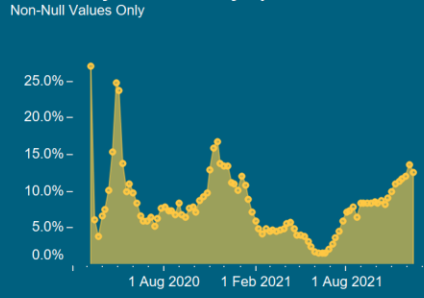
Active Hospitalizations

637

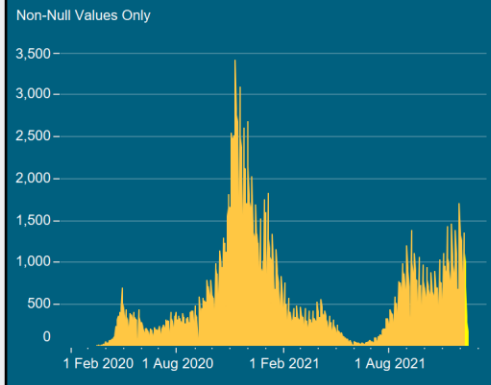
Deaths

2,736

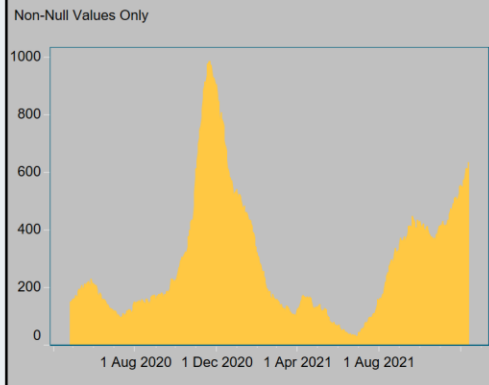
Weekly % Positive by Specimen Date



Positive Cases by Specimen Date



COVID-19 Active Hospitalizations



COVID-19 Vaccinations

Total Allocations

3,085,985

Total Administered

2,318,942

People

Fully Vaccinated

1,132,647

Partially Vaccinated

111,819

% Fully Vaccinated

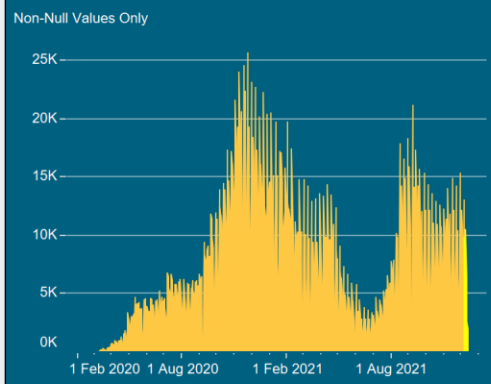
63.88%

% Partially Vaccinated

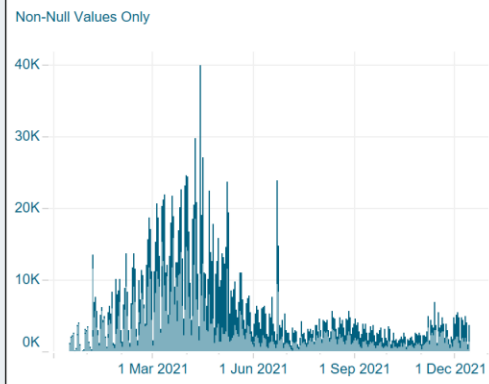
6.31%

1.77 M People Ages 5+

Test by Specimen Date



Daily New Vaccinations Administered



# Nebraska Statistics

Nebraska Hospital Capacity & Respiratory Illness Dashboard | Nebraska DHHS

## Prior Day Adult

### Medical / Surg

### ICU

Staffed  
3,239

% Available Staffed  
24%

Staffed  
490

% Available Staffed  
17%

COVID Occupied  
450

Non COVID Occupied  
2,014

COVID Occupied  
180

Non COVID Occupied  
226

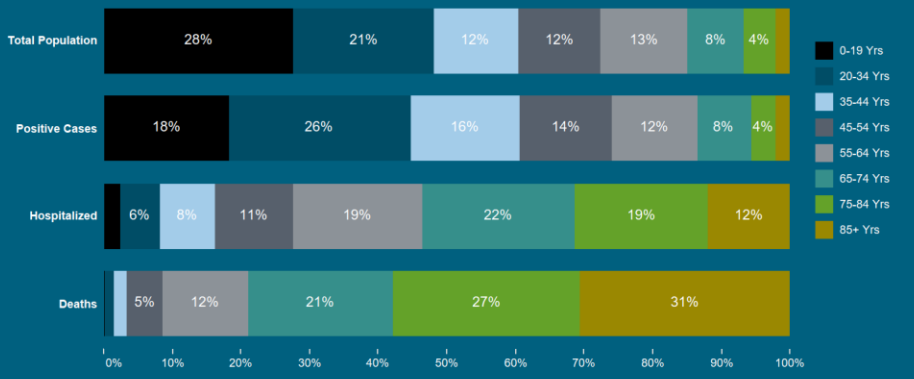
% COVID Staffed  
14%

% Non COVID Staffed  
62%

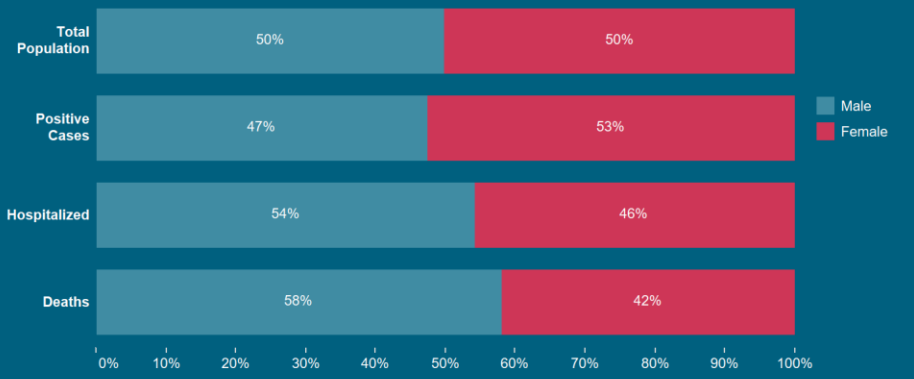
% COVID Staffed  
37%

% Non COVID Staffed  
46%

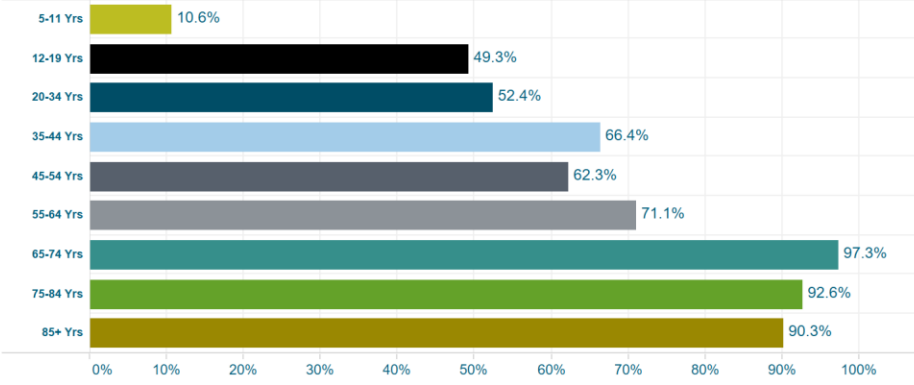
### Comparison of the Effects of COVID-19 on Age Group Populations



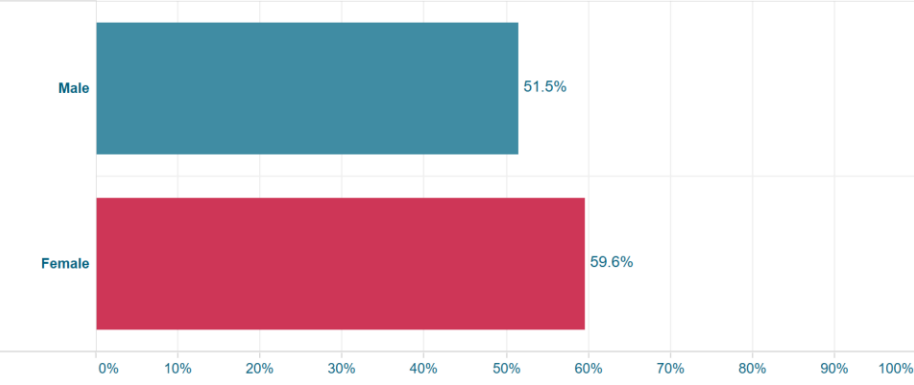
### Comparison of the Effects of COVID-19 on Gender Group

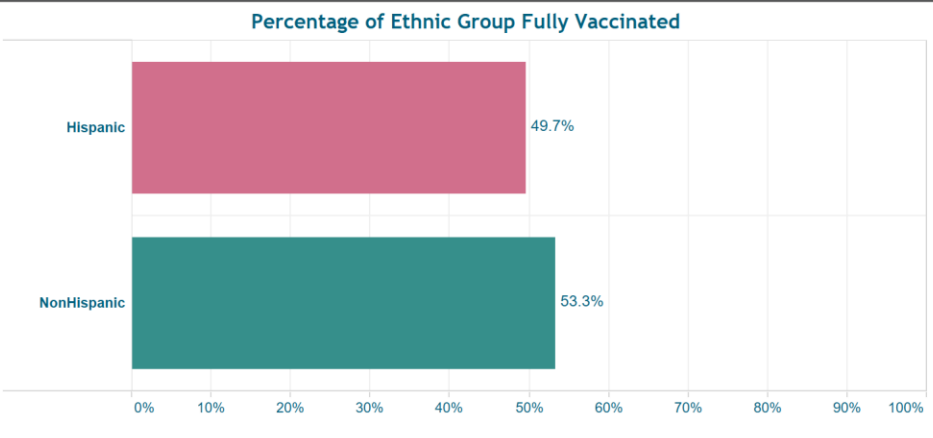
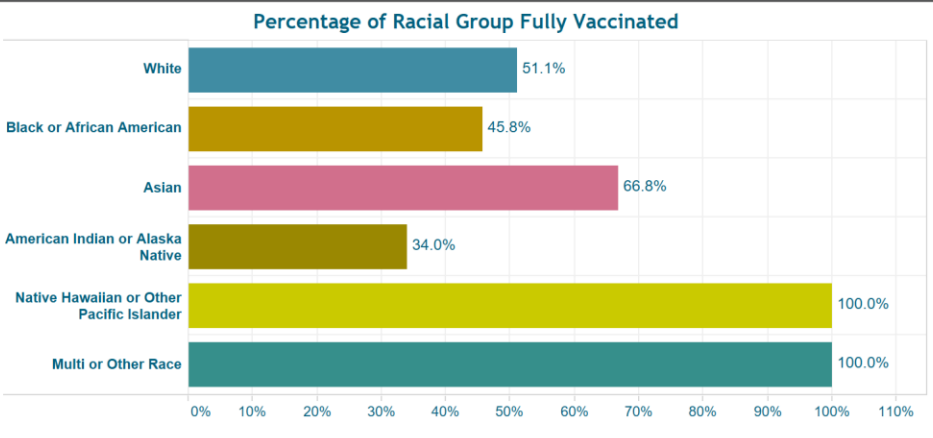
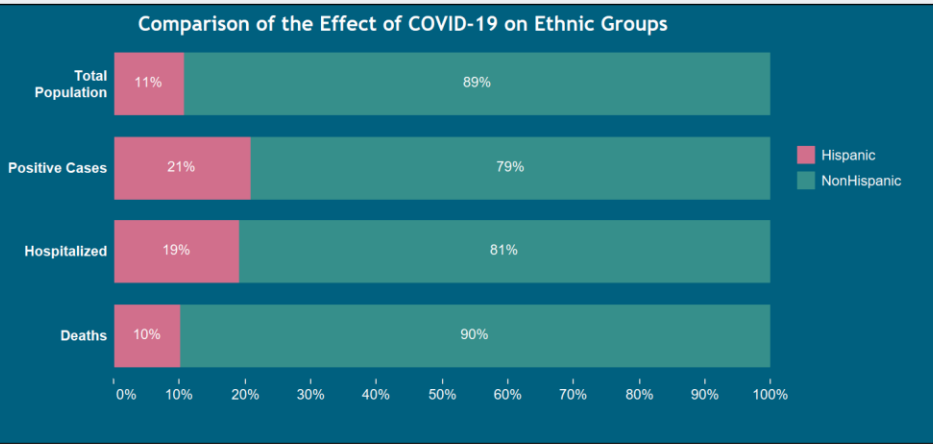
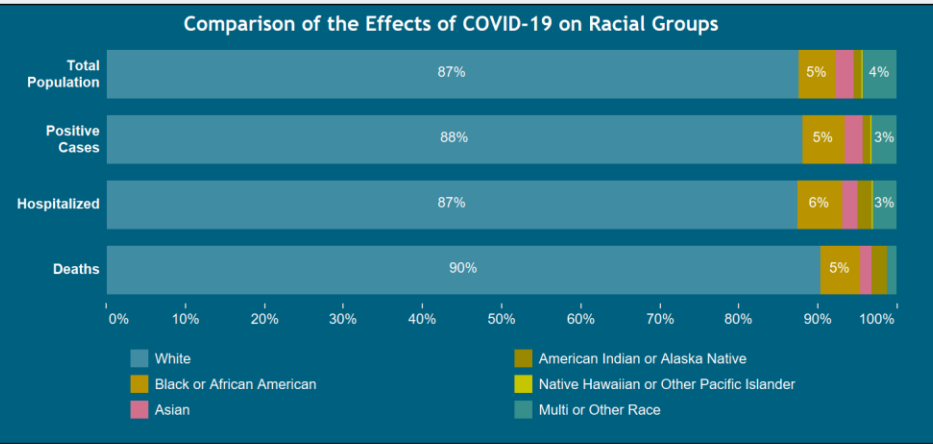


### Percentage of Age Group Fully Vaccinated



### Percentage of Gender Group Fully Vaccinated





# COVID-19 Update: Omicron Variant

- Detected in 34 states including Nebraska
- Represents 3% of US cases (13% in NY, NJ)
- More transmissible than delta variant; eventually will predominate
- Unclear severity of illness
- Therapeutics & vaccine effectiveness under investigation
  - Boosters increase neutralizing antibodies; approved for kids
  - Monoclonal effectiveness under investigation; +Sotrovimab
- Other COVID-19 Therapeutics:
  - Pfizer Paxlovid (↓ hospitalization by 89%)
  - Merck molnupiravir (↓ hospitalization by 30%)



# Debrief

For our previous session:

*What have you done, or do you hope to do, with this content?*

For today's session:

*Do you have questions or concerns that we can address?*





# Health Equity – Historical Context

Presenters: Dr. Jasmine Marcelin  
and Mahelet Kebede, MPH



# Objectives

1. List a historical example of medical racism.
2. Recognize the present-day impact of historical medical experimentation.





No strangers to  
disparities and health  
inequity

# HISTORICAL CASE EXAMPLES OF INEQUITIES



# Indigenous Sterilization

## 1976: Government admits unauthorized sterilization of Indigenous Women

A study by the U.S. General Accounting Office finds that 4 of the 12 Indian Health Service regions sterilized 3,406 American Indian women without their permission between 1973 and 1976.

Two years earlier, an independent study by Dr. Connie Pinkerton-Uri, Choctaw/Cherokee, found that one in four American Indian women had been sterilized without her consent.

Pinkerton-Uri's research indicated that the Indian Health Service had "singled out full-blooded Indian women for sterilization procedures."



# LGBTQIA+ Treatment



Cured: <https://www.creddocumentary.com/>



# Reflection

*Thoughts on the trailer?*



# Latinx/Hispanic Communities

Systemic racism is a key factor explaining the unequal social, political, and economic opportunities for the nation's 60 million Latinx individuals.

## What factors put Latinos at high risk of contracting COVID-19?



**Language Barriers**  
Impact health literacy and create a barrier to care, testing & treatment



**Multi-Generational Homes**  
More likely to live in multi-generational homes, potentially exposing older family members



**Immigration Concerns**  
Individuals may be reluctant to report infection or seek care due to immigration status

## Latinos comprise large portions of the essential workforce



1/3 of agricultural workers are Latino



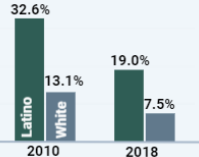
1/4 of workers in food manufacturing, wholesale, and service are Latino

Latino workers are less likely than White workers to have benefits such as paid leave and insurance coverage

## Less likely to have access to health insurance

Latinos saw the largest percentage point decrease in their uninsured rate with the Affordable Care Act

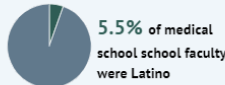
Yet the Latino uninsured rate is still 2.5x higher than the rate for Whites



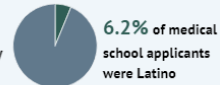
## Lack of representation in the health workforce contributes to language and cultural barriers to care



5.8% of physicians identified as Latino



5.5% of medical school faculty were Latino



6.2% of medical school applicants were Latino



6.0% of psychologists identified as Latino

A 2015 survey found that 5.5% of all psychologists - regardless of race/ethnicity - could provide services in Spanish

Education  
Employment  
Immigration  
Health  
Voting  
The Wealth Gap







History has its eyes on you  
Structural Racism and Medicine

	How race is used	Rationale for race-based management	Potential harm
eGFR <sup>6</sup>	eGFR for Black patients is multiplied by 1.16–1.21 the eGFR for White patients, depending on the equation used	Black patients are presumed to have higher muscle mass and creatinine generation rate than patients of other races	Black patients might experience delayed dialysis and transplant referral <sup>8,9</sup>
BMI risk for diabetes <sup>7</sup>	Asian patients considered at risk for diabetes at BMI $\geq 23$ vs 25 for patients of other races	Asian patients are presumed to develop more visceral than peripheral adiposity than patients of other races at similar BMI levels, increasing risk for insulin resistance <sup>7</sup>	Asian patients screened for diabetes despite absence of other risk factors might experience increased stigma and distrust of medical providers <sup>11</sup>
FRAX <sup>13</sup>	Probability of fracture is adjusted according to geography or minority status, or both	Different geographical and ethnic minority populations are presumed to have varied relative risks for fracture on the basis of epidemiological data	Some populations, including Black women, might be less likely to be screened for osteoporosis than other populations <sup>14</sup>
PFT <sup>16</sup>	Reference values for pulmonary function are adjusted for race and ethnicity	Racial and ethnic minority groups are presumed to have varied lung function on the basis of epidemiological data	Black patients might experience increased difficulty obtaining disability support for pulmonary disease <sup>17</sup>
JNC 8 Hypertension Guidelines <sup>19</sup>	Treatment algorithm provides alternate pathways for Black and non-Black patients	ACE-inhibitor use associated with higher risk of stroke and poorer control of blood pressure in Black patients than in patients of other races	Black patients might be less likely to achieve hypertension control and require multiple antihypertensive agents <sup>20</sup>

## The problem with race-based medicine

**From race-based to race-conscious medicine: how anti-racist uprisings call us to act**

Cerdeña, Jessica P et al. The Lancet. Volume 396, Issue 10257, 1125 - 1128

# Disparities in Health Care – A Long History



**1918 Influenza Pandemic:**  
Historical Precedent  
for Racial/Ethnic Disparities in  
Pandemic Healthcare Delivery

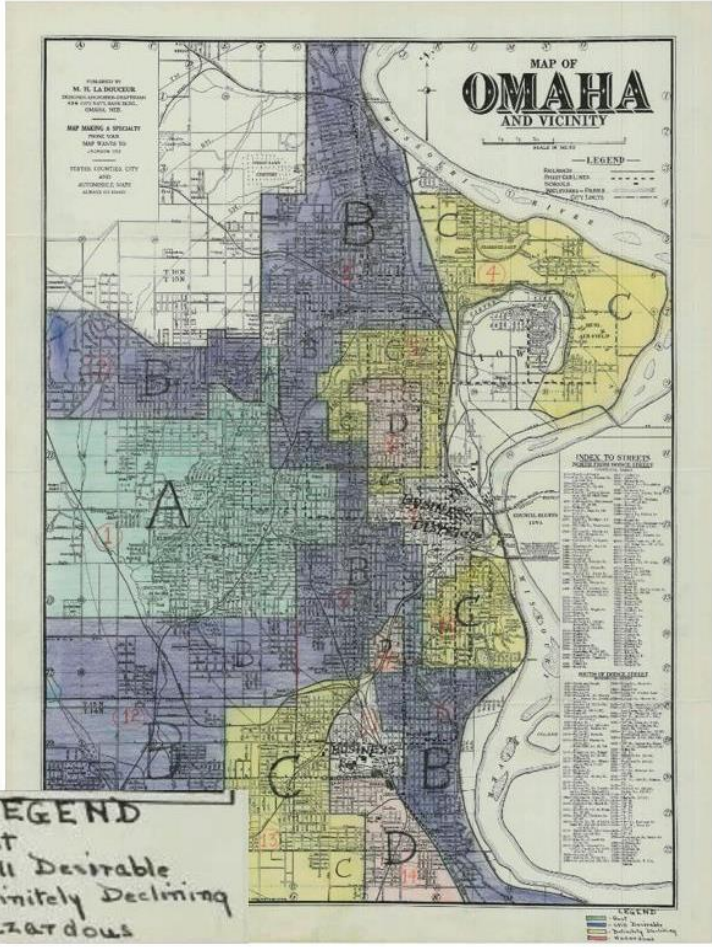
- Segregated hospitals; Lower quality care; Inadequate supplies
- Stigma and blaming pandemic on migrating Black families
- Overcrowded living conditions

# Factors Contributing to Inequities



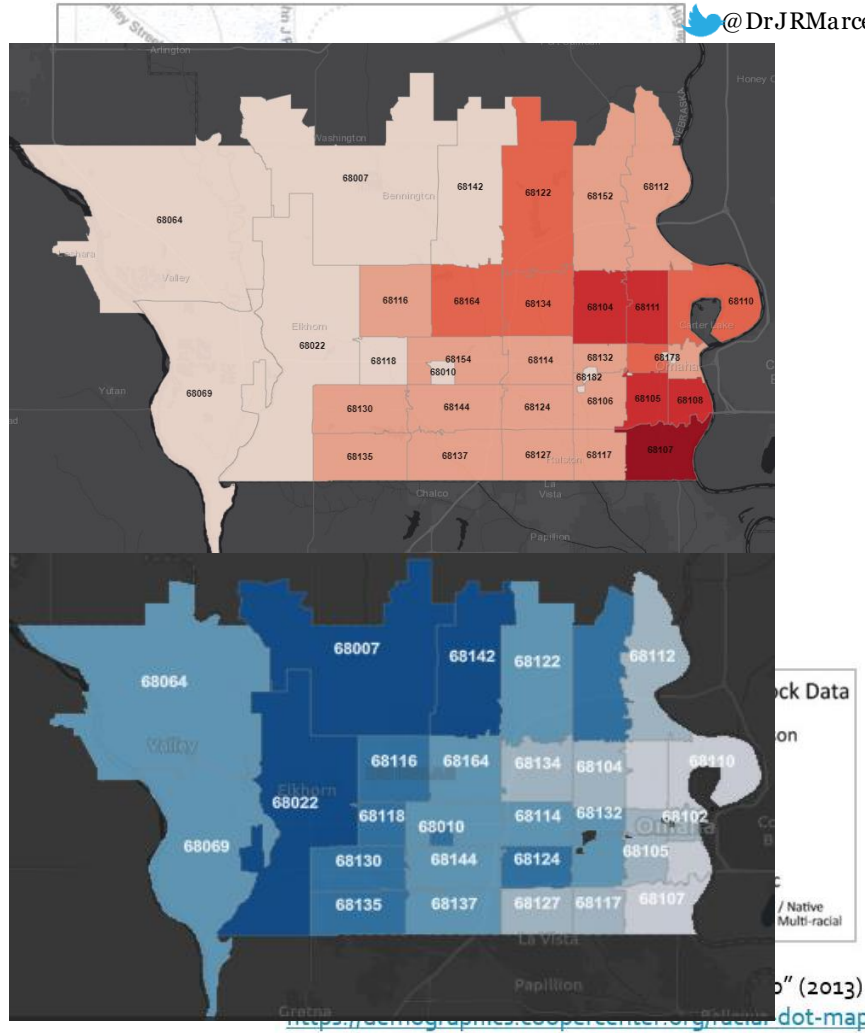
# Redlining





**LEGEND**

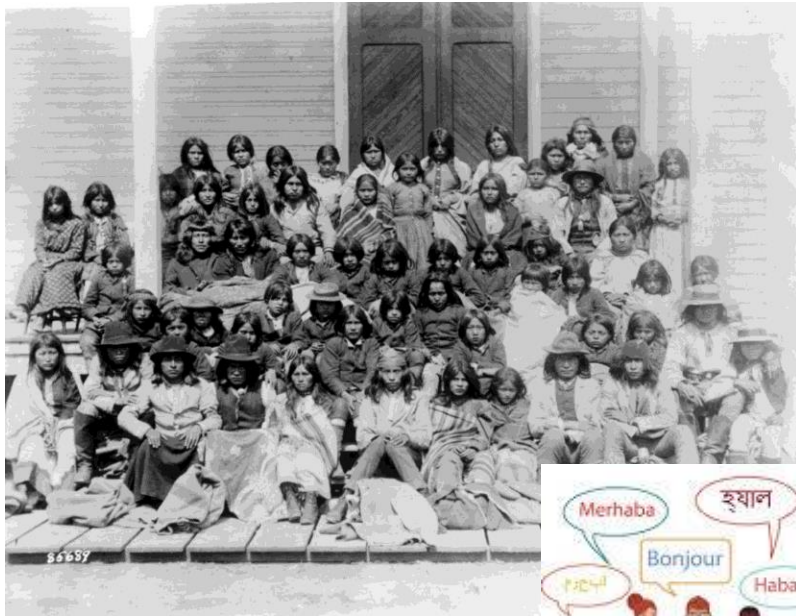
- Best
- still Desirable
- Definitely Declining
- Hazardous



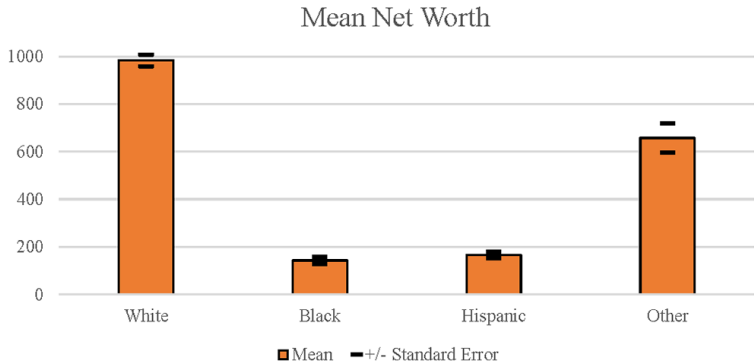
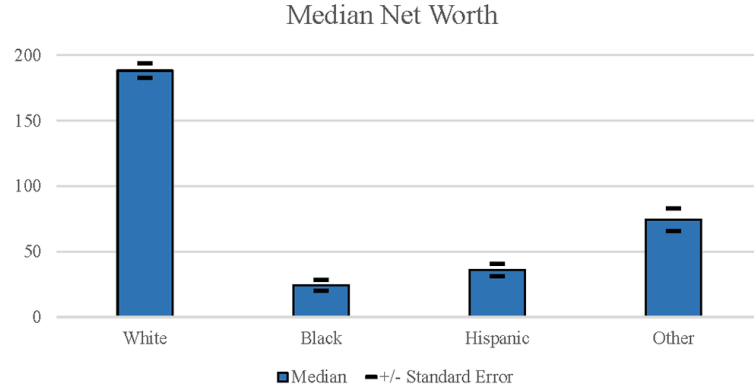
Fletcher-Sasse, A. "A History of Redlining in Omaha" (2015),  
<https://northomahahistory.com/2015/08/02/a-history-of-red-lining-in-north-omaha/>

"Map of Omaha showing redlining zones" (2013).  
<https://www.mapofomaha.com/redlining-dot-map>

# Education



# Racial Wealth Gap



Findings from the Federal Reserve Board's 2019 Survey of Consumer Finance.

This data observation is a result of many complex **societal, governmental, and individual factors** that play out over the life cycle and even across generations.

Source: Federal Reserve Board, 2019 Survey of Consumer Finances.





# Social Determinants of Health



Source: [CDC Website](#)



# Quality Improvement: Systems Thinking and Human Factors

Presenters: Jeff Wetherhold, Gale  
Etherton, MD, Mahliqha Qasimyar, MD



# Objectives

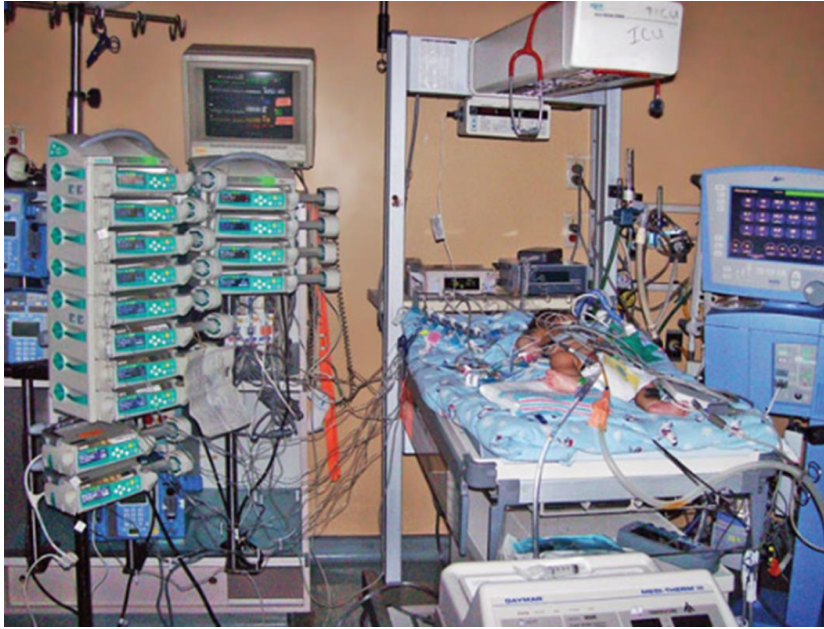
## Quality Improvement

1. Describe systems-based thinking and how this relates to the Swiss Cheese Model
2. Explain the role of human factors in processes



- Medicine used to be simple, ineffective and relatively safe

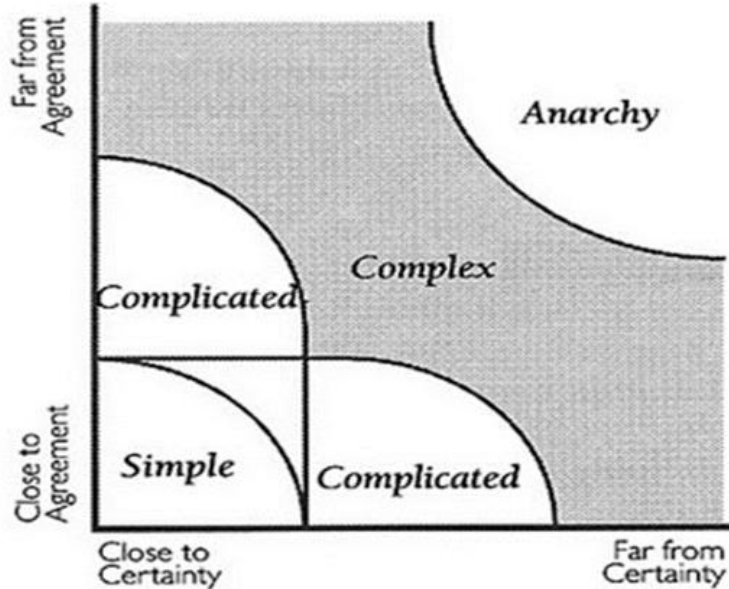




- Medicine is now complex, effective and potentially dangerous



# Systems-based Thinking

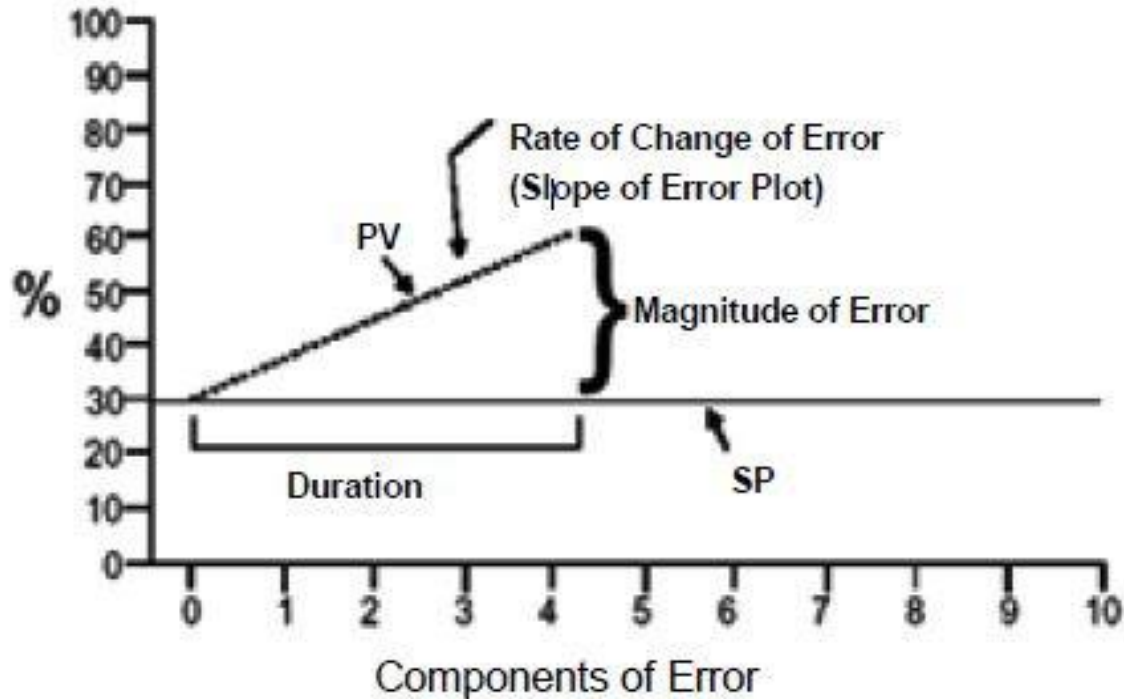


Ralph Stacey, PhD

- The study of complexity and the relationships and interactions among components of a system
  - The sum of its parts are more than the whole



# System Error Rates



# Human Error Rates

	Read/ reason	Error rate (per task)	
		Physical operation	Everyday yardstick
<i>Routine simple task</i>			
Read a checklist or digital display wrongly	0.001		
Set switch (multiposition) wrongly		0.001	
Calibrate dial by potentiometer wrongly		0.002	
Check for wrong indicator in an array	0.003		
Wrongly carry out visual inspection for a defined criterion (e.g. leak)	0.003		
Fail to correctly replace PCB		0.004	
Select wrong switch among similar		0.005	
<i>Complicated non-routine task</i>			
Fail to notice adverse indicator when reaching for wrong switch or item	0.1		
Fail to recognize incorrect status in roving inspection	0.1		
New workshift – fail to check hardware, unless specified	0.1		
General (high stress)	0.25		
Fail to notice wrong position of valves	0.5		
Fail to act correctly after 1 min in emergency situation	0.9		

In failure rate terms the incident rate in a plant is likely to be in the range of  $20 \times 10^{-6}$  per h (general human error) to  $1 \times 10^{-6}$  per h (safety-related incident).

Source: Smith, Dr David J., 'Reliability and Maintainability and Risk', Extracts from Appendix 6, 7<sup>th</sup> Edition, Elsevier, 2005





# Human Factors

- All errors have human components and system components
- How humans interact with that system is the study of human factors



# Social Determinants of Health

Healthcare Access and Quality	Education Access and Quality	Social and Community Context	Economic Stability	Neighborhood and Built Environment
<ul style="list-style-type: none"><li>• Access to healthcare</li><li>• Access to primary care</li><li>• Health insurance coverage</li><li>• Health literacy</li></ul>	<ul style="list-style-type: none"><li>• Early childhood education and development</li><li>• Graduation from high school</li><li>• Enrollment in higher education</li><li>• Language, literacy</li></ul>	<ul style="list-style-type: none"><li>• Cohesion within community</li><li>• Civic participation</li><li>• Discrimination</li><li>• Workplace conditions</li><li>• Incarceration</li></ul>	<ul style="list-style-type: none"><li>• Poverty</li><li>• Employment</li><li>• Food security</li><li>• Housing stability</li></ul>	<ul style="list-style-type: none"><li>• Housing quality</li><li>• Access to transportation</li><li>• Availability of healthy foods</li><li>• Air and water quality</li><li>• Neighborhood crime and violence</li></ul>

# ERROR CLASSIFICATION

## ENVIRONMENT

Climate/Culture	Physical Environment
<ul style="list-style-type: none"> <li>• Attitudes and actions allow unsafe acts</li> <li>• Overconfident or underconfident</li> </ul>	<ul style="list-style-type: none"> <li>• Concentration, vision, hearing or movement impaired</li> </ul>

# ERROR CLASSIFICATION

## LEADERSHIP

Operational Planning	Supervisory Ethics
<ul style="list-style-type: none"> <li>• No provision for adequate training                             <ul style="list-style-type: none"> <li>» Role/responsibilities not defined</li> <li>» Rule/policies and/or procedure not defined</li> </ul> </li> <li>• Failure to correct known and/or identified problems</li> <li>• Employees not fully aware or capable of work to be done</li> <li>• No formal team training provided</li> </ul>	<ul style="list-style-type: none"> <li>• Permits workers to perform tasks outside of scope and licensure or qualification</li> </ul>

## HUMAN FACTORS

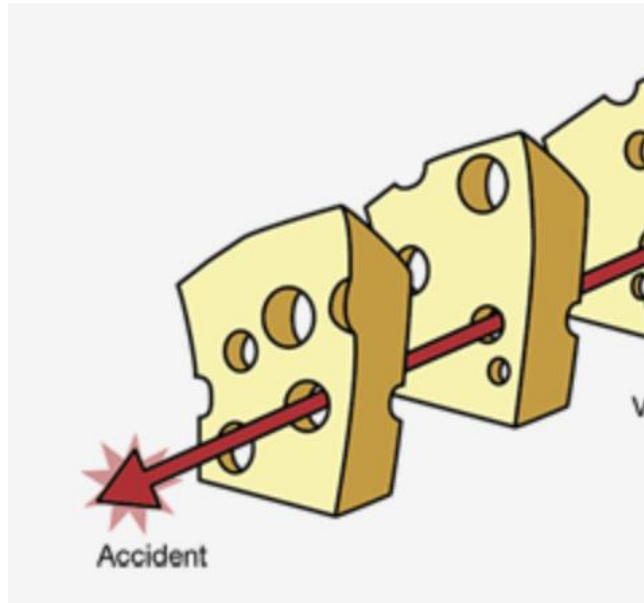
Information Technology	Equipment	Scheduling	Resources
<ul style="list-style-type: none"> <li>• Computer hardware or software problems</li> <li>• EMR issues</li> <li>• Information security issues</li> </ul>	<ul style="list-style-type: none"> <li>• Usability issue</li> <li>• Warning system or automated system issues</li> <li>• Biomed interface problems: hardware or software</li> </ul>	<ul style="list-style-type: none"> <li>• Fatigue</li> <li>• Rushed or delayed necessary action</li> <li>• Task overload</li> <li>• Competing priorities</li> </ul>	<ul style="list-style-type: none"> <li>• Failure to use available resources</li> <li>• Appropriate resources not available when needed</li> <li>• Appropriate resources not purchased, funded</li> <li>• Failure to remove defective resource</li> </ul>

## HUMAN FACTORS

Training	Training	Failure Mechanism of Communication
<ul style="list-style-type: none"> <li>• Improper use of equipment</li> <li>• Inadequate report provided</li> <li>• Inadequate maintenance of equipment</li> </ul>	<ul style="list-style-type: none"> <li>• Procedure or checklist not followed</li> <li>• Wrong procedure or tool chosen for task</li> <li>• Team training failure (Team trained but failed)                             <ul style="list-style-type: none"> <li>» Poor team dynamics</li> <li>» Team specific coordination failures</li> <li>» Team specific communication failures (Occasion   Audience   Content   Purpose)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Confidentiality lost</li> <li>• Conveyance poor (written, electronic or verbal)</li> </ul>

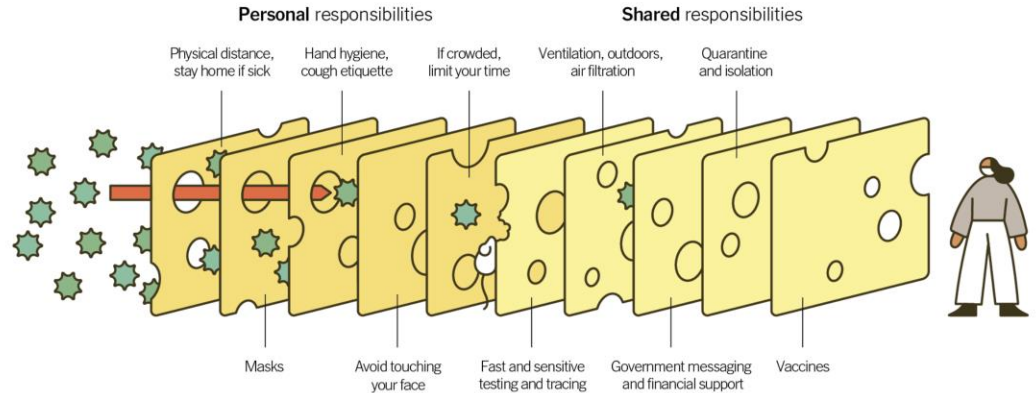


# Swiss Cheese Model



## Multiple Layers Improve Success

The Swiss Cheese Respiratory Pandemic Defense recognizes that no single intervention is perfect at preventing the spread of the coronavirus. Each intervention (layer) has holes.



Source: Adapted from Ian M. Mackay ([virologydownunder.com](http://virologydownunder.com)) and James T. Reason. Illustration by Rose Wong

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By Siobhan Roberts

Published Dec. 5, 2020 Updated Dec. 7, 2020

# Standardization

- Complex systems are more than the sum of simple tasks
- Standardization and protocolization of simple tasks can help improve the overall outcome
  - Minimize variability in care
  - Minimize variability in cost
- Allows you to get right some pieces of the puzzle in a complex system

Makes your processes more reliable and less prone to error



# Reliability $\neq$ Perfection

To achieve reliability, we need to:

- Understand why processes are frequently unreliable
- Accept that attempts to create perfect processes keep us from creating reliable processes
- Build a toolkit for QI that is simple, applicable, and requires few resources



# Next QI Session

February 2022

- Will provide more in-depth didactics and discussion about QI tools and how to use them



# Case Study





# Case Study

You are a provider having a conversation about COVID vaccination with a patient in their 40s. They are healthy but have a family member who passed away from COVID last year. They are hesitant to be vaccinated because the vaccine was “developed too fast” and they are worried it is “experimental.”

1. What systems-level barriers might be relevant?
2. What human factors might contribute to their hesitance?
3. How might these differ depending on their values or beliefs?



# \*SDOH & HF Linked



Human Factors: Information, Technology & Equipment	Human Factors: Scheduling	Human Factors: Communication	Human Factors: Resources	Human Factors: Training	Environment: Climate & Culture	Environment: Physical Environment	Leadership
<ul style="list-style-type: none"> <li>Limited or lack of access to reliable data sources</li> </ul>	<ul style="list-style-type: none"> <li>Public briefings held during work/school hours</li> <li>Vaccine clinics scheduled during work/school hours</li> </ul>	<ul style="list-style-type: none"> <li>Information not provided in preferred format or language</li> </ul>	<ul style="list-style-type: none"> <li>Multiple data sources, potentially conflicting</li> <li>Lack of healthcare access</li> <li>Limited financial resources</li> </ul>	<ul style="list-style-type: none"> <li>Health literacy</li> </ul>	<ul style="list-style-type: none"> <li>Individual freedoms v public health</li> <li>Religious beliefs</li> <li>Individual v family or community-oriented decision making</li> <li>Implicit and explicit biases</li> </ul>	<ul style="list-style-type: none"> <li>Vaccination sites not locally accessible</li> <li>Workplace conditions</li> </ul>	<ul style="list-style-type: none"> <li>Inconsistent messages from CDC, others</li> <li>Clear, complete &amp; updated info not provided</li> <li>Historical mistreatment by US gov and healthcare system</li> </ul>

\*Key  
 SDOH = Social Determinants of Health  
 HF = Human Factors



# POLL



# What can you do in the next three weeks?

Identify changes you can make to address vaccine hesitance



The screenshot shows a Padlet board with the following content:

- Header: UNMC-ID Health Equity and Quality Improvement ECHO
- Subtitle: What changes could you make to address vaccine hesitance in your organization or community?
- Categories (from left to right):
  - Human Factors: Information, Technology, and Equipment
  - Human Factors: Scheduling
  - Human Factors: Communication
  - Human Factors: Resources
  - Human Factors: Training
  - Environment: Climate and Culture
  - Environment: Physical Environment
  - Leadership

Submit your responses at:  
<https://padlet.com/wetherhold/UNMCIDECHOSession4>



# Wrap-Up

1. You will receive today's presentation, in addition to a one-page key-takeaways document and next session's agenda through email.
2. Next session will be on January 5th on "***Long Term Complications of COVID-19 Infection; Cultural Attitudes - time, space, group dynamics, authority, tasks, relationships (part 2/3)***".
3. If you'd like to share a case with us, kindly send it by Monday, January 3rd.



# Thank You

