

Re-IGNITEing Interprofessional Learning and Teaming During the Pandemic

Vineet Arora, MD, MAPP, Associate CMO Clinical Learning Environment UCM

Objectives

Share needs for interprofessional learning during the pandemic

 Discuss how to sustain and salvage interprofessional work teaming through the pandemic



Bridging Leadership



Merging the Health System and Education Silos to Better Educate Future Physicians

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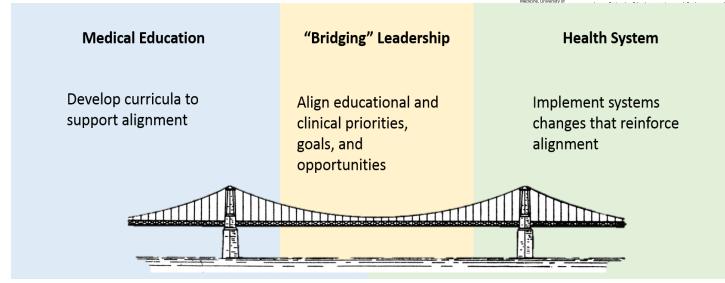
Vineet M. Arora, MD, MAPP Department of Medicine, University of The Affordable Care Act (ACA) is shifting physician redical imbursement from volume to value. Academic medical centers (AMCs) are responsible for educating future physicians so that they will acquire the skills to practice valuebased care, However, the lindages between the leaders of health systems and leaders of residency education may be tenuous, primarily because these leaders exist in separate slios in AMCs.

Even though the American College of Physicians, Institute for Healthcare Improvement, Veteran Affairs Centers of Excellence, and others have created curricula to teach residents principles of value-based

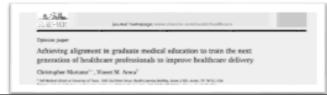
The Affordable Care Act (ACA) is shifting physician reimbursement from volume to value. Academic medical centers (AMCs) are responsible for educating future physicians so that they will acquire the skills to practice valuespecific patient populations.

> Bridging leaders can also take responsibility for ensuring that the clinical learning environment creates an "imprinting" of these principles. This is critical because many institutions are at the crossroads of adopting new models of care while receiving a high proportion of fee-for-service payments, which incentivize doing more rather than providing high-value care. Therefore, exposing residents to new alternative care models is impor-

> > rrently, the internal medicine and family medidency programs at the University of Washington, Mason, Swedish Medical Center, and Group

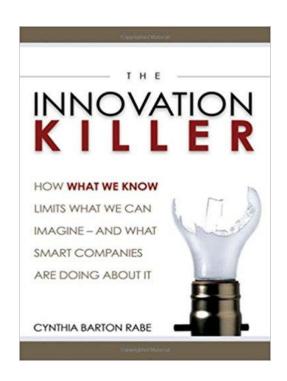






Key to Innovation: Zero Gravity Thinkers

- Psychological distance: maintain an open mind.
- Diverse interests: a wide range of interests, experiences, and influences
- Expertise in intersectoral areas: strength in a relevant area may lead to "intersection points" at which solutions are often found





Context: COVID-19 at UChicago Medicine

- Clinicians began physically distancing from inpatients and each other
- Hospital Incident Command System (HICS) began distributing messaging on updated policies, often multiple times a day, via email and hospital intranet
 - Often with vital information, like PPE education
 - Clinicians found it difficult to learn using this method
 - Expressed anxiety about not knowing how to don / doff PPE or be up to date on protocols



Special shout out to @vgpress13 physician and @UCM_HDS scientist who studies how to improve care for patients with chronic lung disease staffing 1 of our #COVID19 units today @UChicagoMed #womenonthefrontlines #WomenInMedicine



11:16 AM · Mar 28, 2020 from Chicago, IL · Twitter for iPhone











HAND HYGIENE REQUIRED

MASKS: NOT required UNLESS performing procedures that may potentially generate aerosols of infective material (i.e. dressing changes) or if potential splattering may occur.

REQUIRED

ARTICLES: Reusable equipment should be disinfe with a germicidal wipe or spray before being remofrom the isolation room, cubicle or OR.

Special Respiratory Precautions

No Visitors Allowed







MASKS EYE
REQUIRED PROTECTION
REQUIRED

HYGIENE REQUIRED

ROOM: Door to patient room should remain closed.

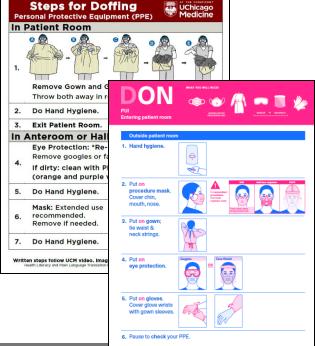
TRANSPORT: Patient should NOT leave the room unless

PPE Education

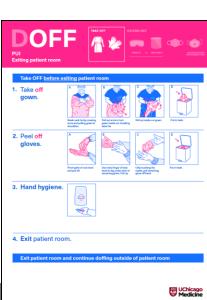
*Signage is not the same

*Role differences in trustworthiness and how informative each sign is





Enter patient room—do NOT touch your PPE!

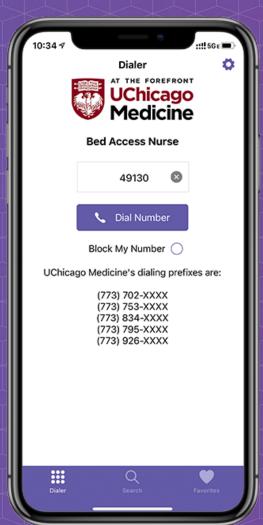


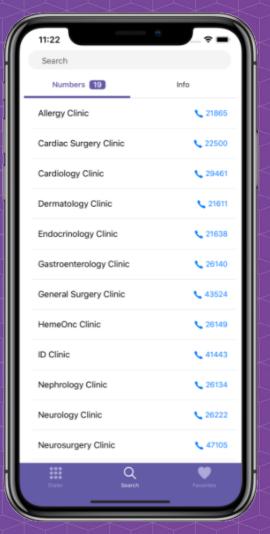


mobIMD makes hospital communication from a mobile device easy

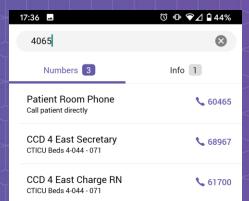




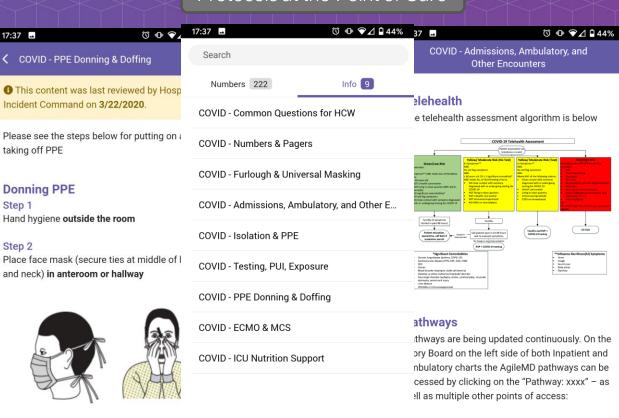




"Inpatient Telemedicine"



Protocols at the Point of Care









Place eye protection (goggles or face shiel anteroom or hallway

17:37 🛥

taking off PPE

Donning PPE

Step 1

Step 2

Step 3







right-hand side of the tabs to access. Should select Inpatient COVID-19 pathway. Enroll patient in pathway and follow steps - orders should be placed from within the nathway. If

Inpatients: Use the chunky button on the top

Interprofessional Collaboration

-Interprofessional collaboration is associated with:-



Reduced medication errors



Improved patient and nurse satisfaction



Decreased inpatient mortality



Shorter length of stay

Patients not always





THE FOREFRONT



Improving GME-Nursing Interprofessional Team Experiences

Aim: to engage residents, nurses, & other staff in institutional performance improvement aligned with UCM via two levels:



Unit-level: unit-based teams, composed of Resident-Nurse champions, who work to identify & implement practice changes that improve both care & learning



Institution-level: institutional performance improvement "mini Kaizen" events to engage residents & staff on improving issues for which they are stakeholders & process owners.







MD/APP-in-Room Communication Workflow

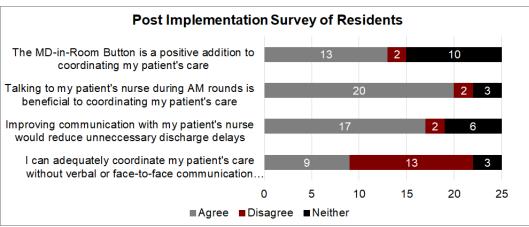


 Teams press button when entering Patient Room

 Text alert sent to nurse phone Nurse/providers meet at bedside or in hallway for touch-base



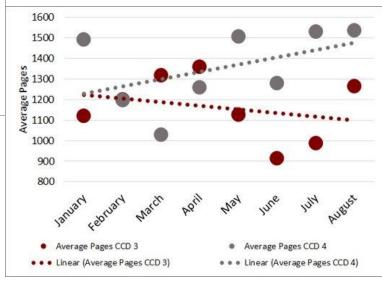
Results from the first unit (CCD 3) - resident experience



-Decreased paging volume

- Acute Care Surgery 15%
- Minimally Invasive Surgery 14%
- Surgical Oncology 41.7%

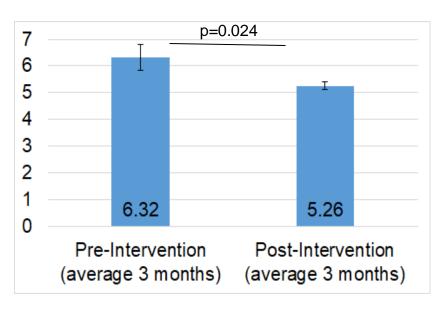
-Improved resident satisfaction



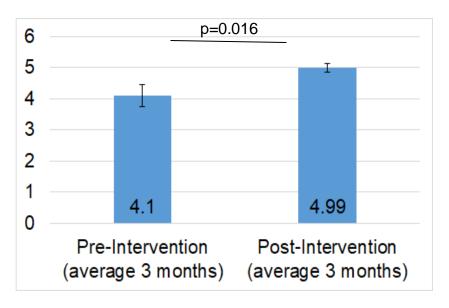


Results from the first unit (CCD 3) - clinical efficiency

Length of Stay (LOS)



Bed Turnover Rate (BTR)





Salvaging & Reimagining: Socially Distanced Touch Base

- While teamwork is even more critical during the pandemic, harder to have a physical touch base due to:
 - Social distancing in hospital
 - •Larger "teams" not rounding at bedside
 - •Harder to recognize people with PPE
- Relaunched July 2020 and tracking touch-bases hospital wide this year





Let's Work Together



Use MD/APP-in-Room Button to Touch Base on Patients



Physicians /APPs



Push the MD/APP-in-Room button in patient rooms when rounding (touch the clock to activate the console)



Nurses



See the alert on your phone, come to room hallway when possible



Together



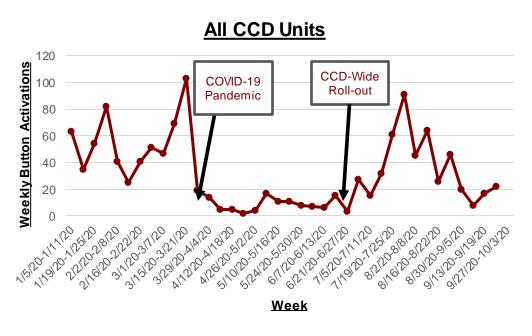
Meet at a safe distance in the hallway or at bedside to touch base on the patient

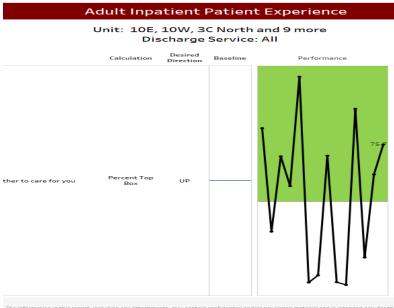




Center for Healthcare Delivery Science and Innovation

Process and Outcome Metrics







BROWSE BY CATEGORY -

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Embedded librarians support faculty, students where they work

Posted on Oct 25, 2016, by Rachel Rosenberg

Many faculty and students know that they can get help from librarians through online Ask a Librarian services, or inside Crerar, D'Angelo, Eckhart, Mansueto, Regenstein, and SSA libraries. Increasingly, librarians are also providing customized on-site research and teaching services. From hospitals to classrooms, and legal clinics to a business incubator, University of Chicago librarians are using their expertise to support faculty, students, residents, and entrepreneurs where they work.

Librarians at the Hospital



Librarian Debra Werner joins the internal medicine team at UChicago Medicine's Bernard Mitchell Hospital for patient rounds once a week, to provide research support as faculty, residents, and medical students develop a treatment plan for patients. Her iPad at the ready, she obtains rapid answers to patient-related clinical questions ranging from the side effects of pharmaceuticals to the evidence for selecting one treatment option over another for a specific patient.

Dr. Vineet Arora, Associate Professor and Assistant Dean for Scholarship and Discovery, as well as a member of the Board of the Library, is one of the attending physicians who brings Werner on rounds. "I think that a

librarian helps to promote greater awareness of the importance of clinical questions and evidence in patient care," she explained. "It also helps us to understand when there is no data—and you realize that some of medicine is informed by your intuition or gestalt and not by evidence."

WORKSHOPS & EVENTS

View full calendar »

PRINT

Libra (newsletter)

MEDIA CONTACT

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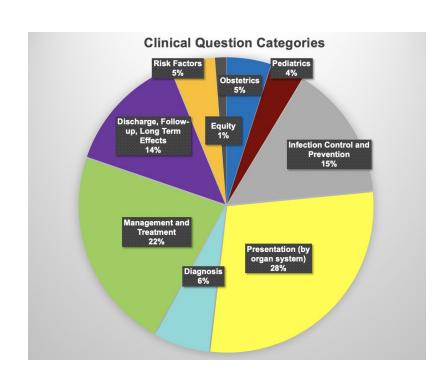
COVID-19 Educational Support Team: Librarians, physicians, and medical students collaborate to synthesize COVID-19 research for clinicians

Problem: Information at point of care in COVID units evolving rapidly. Clinicians lack time to conduct thorough review of literature.

Redeployed Embedded librarians with MS4 students (elective credit)

Intervention Design

- COVID-19 web guide
- literature reviews on reliable resources for COVID-19
- Answered clinical questions from frontline clinicians





COVID-19 Educational Support Team: Librarians, physicians, and medical students collaborate to synthesize COVID-19 research for clinicians

Impact:

Number of clinicians assisted: 22

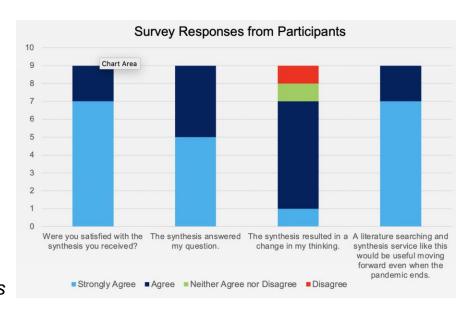
Numbers of questions asked/answered: 90/80

Number of articles summarized: 325

Feedback:

"This service was incredibly helpful in facilitating data-driven clinical practice."

"The synthesis conducted by this team laid the foundation for why our survey on PPE practices is needed and will hopefully help us frame a publishable manuscript once the survey analysis is complete."





Family-Centered Rounds in **Pediatrics: Case Study**

Zoom Participants:

Senior B Intern B. C Medical Student 1, 2, 3 Social Worker Case Manage Pharmacist

Room 1:

Intern A Senior A Attending Nurse

Parent/Patient

Zoom Participants: Senior B

Medical Student 1, 2, 3

Intern A. B

Social Worker

Case Manager

Pharmacist

Zoom Participants: Senior B Intern A, B, C Medical Student 1, 3 Social Worker Case Manager Pharmacist

Room 5:

Medical Studnet 2

Senior A

Attending Nurse

Parent/Patient

Room 2: Intern B

Senior A

Attending

Nurse

Parent/Patient

Zoom Participants: Senior B

Intern A. C Medical Student 1, 2, 3 Social Worker Case Manager

Pharmacist

Room 4:

Intern C Senior A

Attending Nurse

Parent/Patient

Room 3:

Medical Student 1

Senior A Attending

Nurse

Parent/Patient

Zoom Participants:

Senior B Intern A. B. C Medical Student 2. 3 Social Worker Case Manager

Pharmacist

AT THE FOREFRONT **UChicago Medicine**

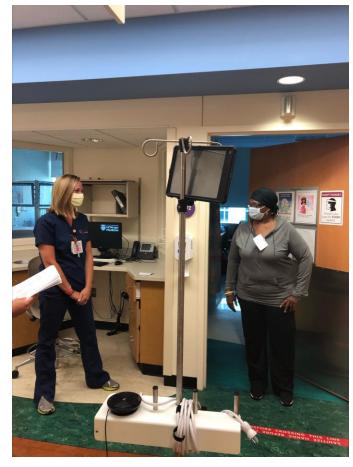


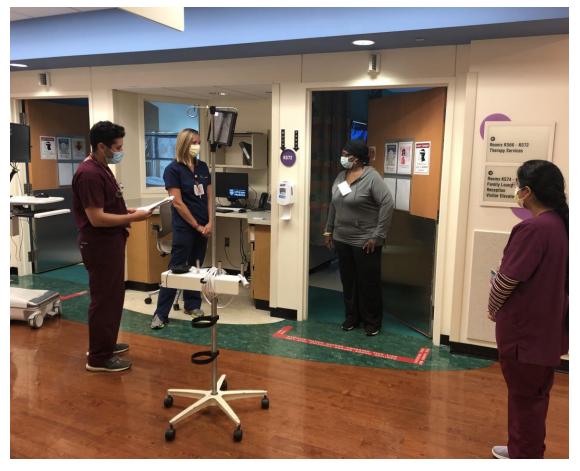




Equipment







Leapfrog Feedback

Question	"Zoom Rounds" (n=59)	"LEAPFROG Rounds" (n=59)	p-value
Nurse awareness of plan of care by appropriate time*	2.6	3.1	0.02
Education during rounds	2.2	2.9	0.03
Educational sessions after rounds	2.6	3.6	0.03
Communication amongst physician team^	3.1	3.7	0.04
Communication between nurses and residents	2.3	2.8	0.01
Communication between medical team and patients/families	2.1	2.7	0.01
Quality of pediatric hospital medicine rotation^	2.7	4.1	< 0.01



Resident-led COVID Unit

- 86 resident volunteers cared for 649 COVID patients (65% all COVID patients at UCM)
- Reverse mentoring role for faculty
- Team training with nurses and respiratory therapists on noninvasive ventilation
- Adapted workflows for positivity rates
- Buddy system for morale
- No exposures
- Out of 46 respiratory isolation units across teaching hospitals, only 2-3 had residents





Conclusions

Teaming is possible

Use technology when you can!

Respect human workflow

Reimagine the clinical learning environment



Thank You to Our IGNITE Teams!

Project Sponsors – Vineet Arora, Ajanta Patel, Anita Blanchard, Emily Chase

Megan McDonnell

Melissa

Benesh Rachel Neal

Julia Simon

Adam	Anup Das	Amy Espinal	Alessandra	Alexandra	Antigone Kithas	Ashley	Brittany Adamic
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