Resources and Strategies to Improve the Safety and Quality of Diagnosis in Hospitals

Diagnostic Safety and Quality Webinar Series: Overview and Implications for Hospitals

November 28, 2023



Webinar Reminders

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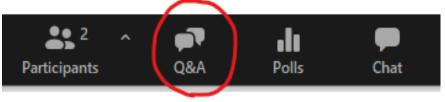
 Following each session, a copy of the slides and recording will be posted and available for download on the Leapfrog website here: <u>https://www.leapfroggroup.org/survey-materials/town-hall-calls</u>



Q & A

Participants will be able to ask questions during the presentation. Please select the Q&A icon at

the bottom of your screen:



- Once the icon has been selected a Q&A box will appear for you to type your questions.
- All participants will be able to view the questions and answers during the duration of the webinar.
 - You will be receiving responses in real time from a member of our team.
 - We will include a transcript of the Q&A on the Leapfrog website here: <u>https://www.leapfroggroup.org/survey-</u> <u>materials/town-hall-calls</u>
 - Some questions may be answered live please pay close attention.

Following the presentation we will have a live Q&A session. Please use the Raise Hand icon at the

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• Once the icon has been selected you will be placed in the que. When it is your turn to ask your question, you will receive a prompt from the host asking you to unmute yourself.



Introductions



Jill Dykstra-Nykanen, RN, MSN, CPHQ

Assistant Vice President Orlando Health

Chief Quality Officer, Orlando Health Arnold Palmer Hospital for Children



Divvy Upadhyay, MD, MPH

Program Leader – Diagnostic Safety Geisinger



Jean-Luc Tilly, MPA, PMP

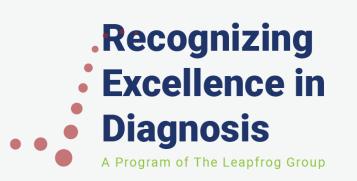
Program Manager The Leapfrog Group



Mark Graber, MD, FACP Founder and President Emeritus Society to Improve Diagnosis in Medicine



Leapfrog's New National Initiative for Hospitals



A national initiative to publicly report and recognize hospitals for preventing patient harm due to diagnostic errors.

Progress:

- Published Recommended Practices Report describing 29 options for hospitals looking to reduce diagnostic errors
- Measured implementation progress in pilot survey of 95 hospitals across the country

This fall:

Introducing new process and measures for inclusion in the 2024
 Leapfrog Hospital Survey – not scored or publicly reported



ORLANDO HEALTH[®]

Leapfrog Webinar #3: Case Study in Improving the Safety and Quality of Diagnosis in Hospitals

Presented by Jill Dykstra-Nykanen, RN, MSN, CPHQ Assistant Vice President Orlando Health Chief Quality Officer, Orlando Health Arnold Palmer Hospital for Children

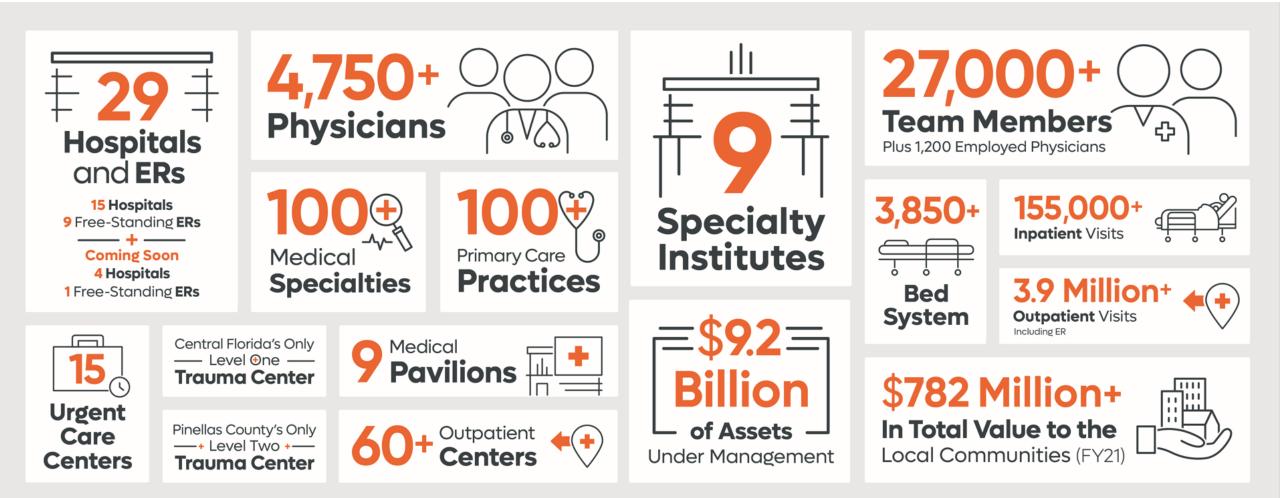
ORLANDO HEALTH

To improve the health and quality of life of the individuals and communities we serve.

The Orlando Health Way



At-A-Glance



Awards and Recognitions



8/2/23

Orlando Health Arnold Palmer Hospital for Children

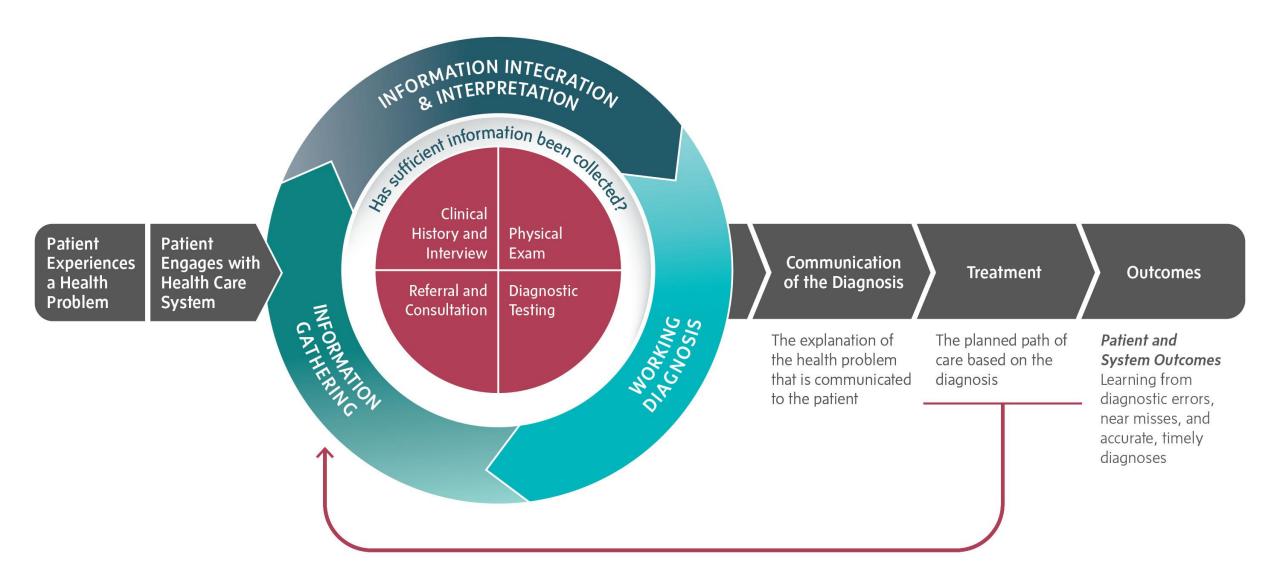
- Orlando Health Arnold Palmer Hospital is a 156-bed free standing Pediatric facility
 - Region's only Pediatric Level One Trauma Center and the first American College of Surgeons' Level One Children's Surgery Center
 - Approximately 60,000 ED Visit annually
 - Approximately 1,300 Trauma admissions annually
 - Approximately 6,200 OR
 procedures annually
 - Connected via a bridge to OHWPH and their 149-bed, Level IV NICU



11

Recognizing Excellence in Diagnosis

The Diagnostic Process



Implementation Scale

 \bigcirc

Not under consideration

No discussions

about

implementing

this practice

Exploring and Preparing

aring

Discussions have started and additional staff being recruited Implementation strategy formed; resources in place

Planning and

Resourcing



Implementing and Operationalizing

Recent implementation of some or all the elements of this practice in one or more units



Fulling Implemented and Evaluating Impact

House wide implementation of all elements

Practice 1.4B – Measure and monitor diagnostic safety outcomes

Senior administrative leaders put processes and structures in place to identify, track, and analyze diagnostic errors, including errors that result in harm or death, with a focus on high-risk areas of the hospital (e.g., EDs, labor and delivery units, critical care units), and regularly communicate performance and progress on improvement initiatives with their board of directors

Resources and strategies for implementation



Electronic Trigger Tools

Measurement Monitoring Outcomes

Δ	Safe and Easy to use	Team Members and Patients	
•	reporting	Psychological Safety is key!	



Ensure data from various sources are used to identify diagnosis related harm Case reviews

RCA, M&M conferences, PIPS reporting 16

Practice 1.2C – Target training and education to nurses, pharmacists, and allied health professionals





Targeted training to nurses, pharmacists, and allied health professionals through interprofessional patient rounds

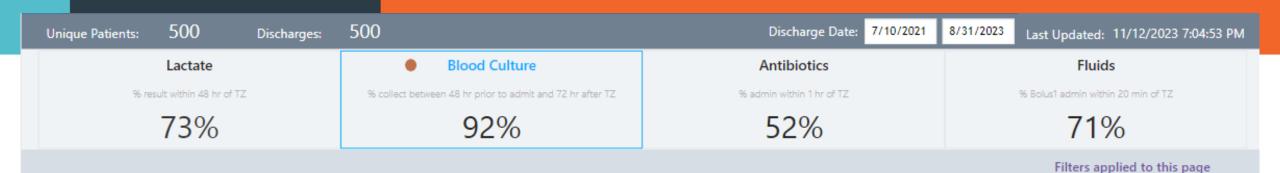
Education

National Collaborative Learning Session "Watch Parties" Roaming clinics to review bundle elements and diagnostic testing process

Annual presentation to new Residents/Fellows Peer-to-Peer collaboration

Tools/Pathways

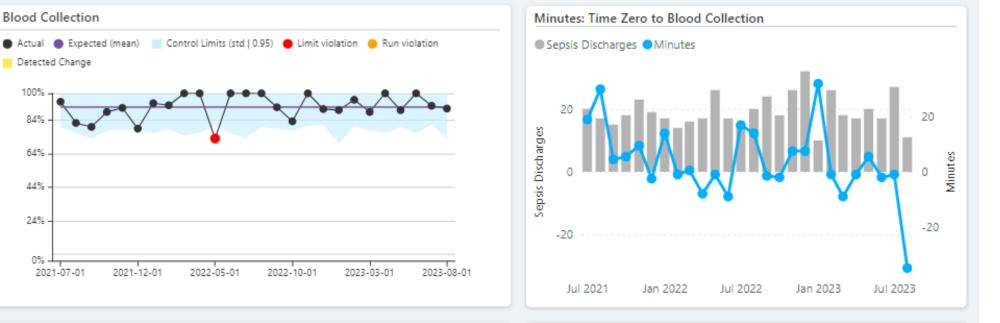
Sepsis-focused webinars Monthly compliance and outcomes results distributed to all units for targeted QI support and retraining

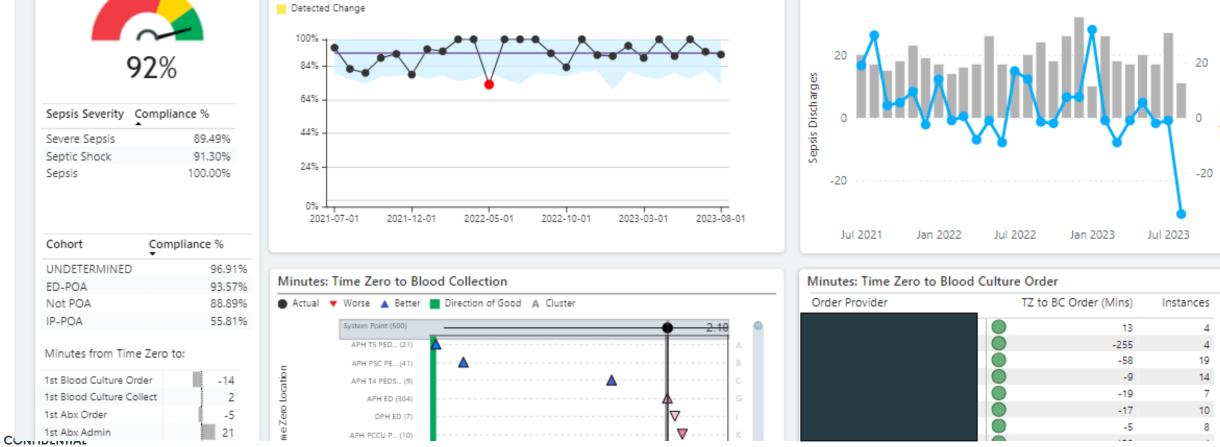


Blood Collection

Blood Collection

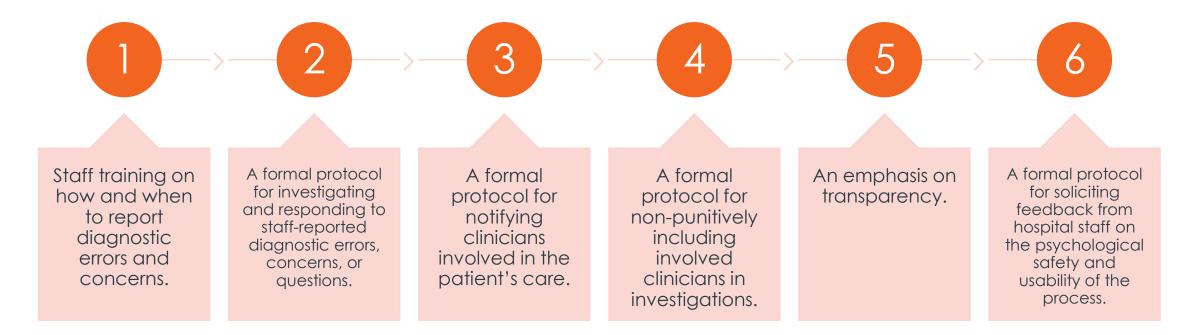
Sepsis





Practice 1.2D – Make it easy for hospital staff to report diagnostic errors and concerns

The hospital has a formal process in place for staff to **report diagnostic errors and concerns** (e.g., breakdowns in communication, breakdowns in the diagnostic process). The process encourages **psychological safety** and staff adoption (the process is safe and easy to use) and should include all the following:



Strategies to implement



CONFIDENTIAL

Thank you!

Jill Dykstra-Nykanen, RN, MSN, CPHQ AVP, OH & CQO, OHAPH

Jill.Dykstra-Nykanen@orlandohealth.com



Implementing Diagnostic Safety

Divvy K. Upadhyay, MD MPH Geisinger Twitter: @Divvykant Email: dkupadhyay@geisinger.edu

Acknowledgements

• Takes a village – always.

THELEAPFROGGROUP

Giant Leaps for Patient Safety

Baylor College of Medicine

IQUEST



Predominantly rural 1 Million + patients Integrated 100+ years old



Town Hall 11-28-23

Audience Engagement

Who are we? What do we do?

Slido.com; <u>**#1739541**</u>

Risk Manager? Patient Safety officer/liaison? Patient advocate, Quality team member, CMO, C-suite professional, patient, clinician, nurse, payor, insurance professional?

What are diagnostic errors?



Join at **slido.com #1739541**



Divvy K Upadhyay MD MPH for Leapfrog Dx Excellence National Town Hall 11-28-23



Divvy K Upadhyay MD MPH for Leapfrog Dx Excellence National Town Hall 11-28-23

CASE #1

- A healthy 12-year-old boy, Rory, cut his arm during a basketball game in school (Day 1).
- The next day (Day 2), he woke up with symptoms of vomiting and leg pain. Visited pediatrician
 mottling. Sent to ED for GI bug/ dehydration.



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- Rory continued to worsen and was again taken to the ED again (Day 3), after which he was admitted to the ICU.
- Diagnosed with streptococcal sepsis and multi-organ failure the following day (Day 4).



Where were the opportunities missed?

- Patient provider encounter (elicitation of history, inadequate physical exam, or the actual clinical assessment – joining the dots to make the diagnosis)
- Diagnostic test interpretation or the testing process (diagnosis or interpretation by a pathologist or radiologist + how specimens or images are processed)
- Follow-up and tracking issues (delayed or missed follow-up of abnormal lab or radiology findings)
- Issues attributable to patient non-compliance or other patient factors
- Issues attributable to missed or dropped referrals

Case # 2

- 47-year-old woman, presented with persistent cough at an ED in October 2006. Her physician ordered a chest X-ray to rule out pneumonia. Physician determined that it was normal, and he diagnosed the patient with an upper respiratory infection.
- Barely a year later, the patient returned to the same hospital after her symptoms worsened. CT scan revealed signs of advanced stages of lung cancer. Within seven months, the cancer spread- ultimately led to the patient's death in August 2008.
- 2006 X-ray clearly identified a 1.5 cm nodule in the upper right lung of the patient – which was missed.

Suffolk County, Ma

reliasmedia.com/articles/21632-family-members-awarded-16-7-million-after-radiologist-missed-

Family members awarded \$16.7 million after radiologist missed evidence of lung cancer

October 1, 2014

Untitled Document

REPRINTS

Related Articles

Integrating Reproductive History Could Help Postmenopausal Women's Family members awarded \$16.7 million after radiologist missed evidence of lung cancer

Kreisman Law Offices https://www.robertkreisman.com > 1-95-million-settle...

\$1.95 Million Settlement Reached in Late Diagnosis of ...

Feb 23, 2021 – \$1.95 Million Settlement Reached in Late Diagnosis of Lung Cancer Lawsuit ... \$950,000 Settlement Reached in Medical Malpractice Case for Failure ...

Miller & Zois

Lung Concer Mindiagnopia Lowquite

Lung Cancer Misdiagnosis Lawsuits

The case settled for \$1 million. 2016, Illinois: \$2,500,000 Settlement. A 79-year-old woman goes to the ER after a fall while at church. She is admitted ...

Miller & Zois https://www.millerandzois.com > medical-malpractice

Cancer Misdiagnosis Lawsuits and Settlements

The median **malpractice** verdict in **cancer**-related **malpractice cases** is \$1.75 million. The average verdict is much higher but we do not have the exact statistics.

Where were the opportunities missed?

- Patient provider encounter (elicitation of history, inadequate physical exam, or the actual clinical assessment – joining the dots to make the diagnosis)
- Diagnostic test interpretation or the testing process (diagnosis or interpretation by a pathologist or radiologist + how specimens or images are processed)
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- Issues attributable to missed or dropped referrals

CASE#3

• On Sept 25, 20xx,

late evening the 41-year-old male patient presents to ED with:

- Temperature of 100.1°F
- Dizziness
- Nausea
- Abdominal pain
- Sharp headache
- Decreased urination
- 3.5 hours into the patient's visit at the ED, temperature spiked to 103 F, which later dropped to 101.2°F.
- Patient rated his "severe headache" at 8 on a scale of 1 to 10
- Nurse recorded patient's recent travel to Africa





- Investigations: CT scans of "head and abdomen" ordered during the ED visit showed no evidence of sinusitis or other conditions such as stroke or appendicitis
- Discharge diagnosis "included sinusitis"
- Patient was prescribed antibiotics, told to take Tylenol, and discharged after 4 hours in the ED.
- Two days later, the patient worsened and returned to the same ED and was subsequently admitted to the hospital.

<u>Diagnosis (Berl</u>). Author manuscript; available in PMC 2015 Dec 22. Published in final edited form as: Diagnosis (Berl). 2014; 1(4): 283.

Published online 2014 Oct 23. doi: 10.1515/dx-2014-0064

PMCID: PMC4687403 NIHMSID: NIHMS729539 PMID: <u>26705511</u>

Ebola US Patient Zero: lessons on misdiagnosis and effective use of electronic health records

Divvy K. Upadhyay, Dean F. Sittig, and Hardeep Singh, MD, MPH

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US Ebola Patient Zero

When a misdiagnosis led to full page apologies in newspapers and a testimony in Congress.

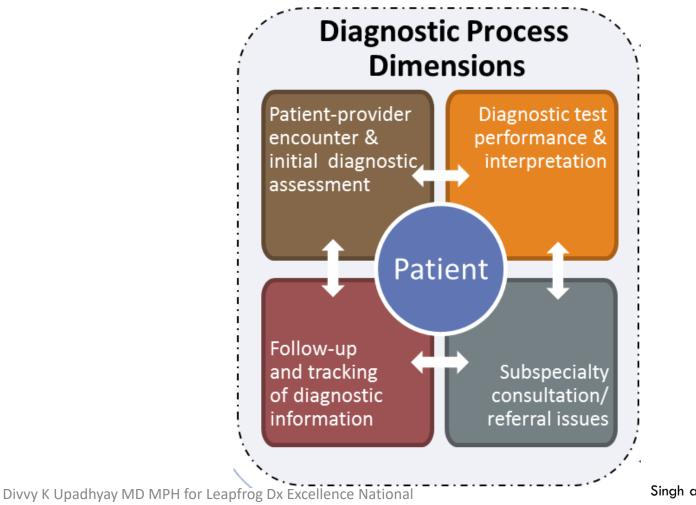


- "The fact that Mr. Duncan had traveled to Africa was not communicated effectively among the care team, though it was in his medical chart," -Texas Presbyterian Health System CEO Berdan
- "On that visit to the Emergency Department, we did not correctly diagnose his symptoms as those of Ebola. For this we are deeply sorry."

Where were the opportunities missed?

- Patient provider encounter (elicitation of history, inadequate physical exam, or the actual clinical assessment – joining the dots to make the diagnosis)
- Diagnostic test interpretation or the testing process (diagnosis or interpretation by a pathologist or radiologist + how specimens or images are processed)
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So why these cases? "The Dx Safety Lens" Safer Dx Framework: Five Dimensions



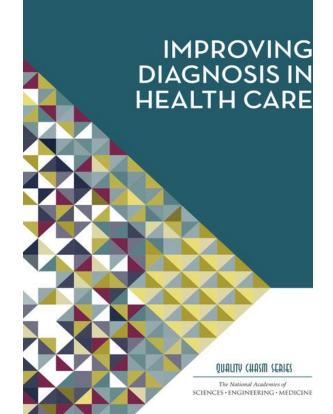
Town Hall 11-28-23

So these 3 cases take place at your organization. You are the CEO/CMO/CQO – what do you do? (Coincidentally all took place in the ED)

- Summon your ED chief/ team and ask them to explain how they messed up
- Ask Risk management to handle the case as they routinely handle all incident reports i.e. send for PEER REVIEW, check boxes for TJC + CMS + DOH
- Quick safety huddle, reach out to family empathize and establish communication; + make sure clinician(s)/ team involved have the resources/support they need
- Task a multi-disciplinary group to review/analyze the case; provide feedback to the clinician(s)/team, create learning opportunities and identify quality improvement tasks. Disseminate lessons. Close the loop with hospital leadership/Board

2015 IOM Report on <u>"Improving Diagnosis in HealthCare"</u> Recommendations

- "few health care organizations have processes in place to identify diagnostic errors and near misses in clinical practice...but collecting this information, learning from these experiences, and implementing changes are critical for achieving progress"....
- "health care organizations should promote a nonpunitive culture that values feedback on diagnostic performance..."



Geisinger Committee to Improve Clinical Diagnosis (CICD)

- Identify clinical champions/leaders
- Adopt working definition of diagnostic error
- Prioritize areas of opportunity
- Define program goals

Geisinger

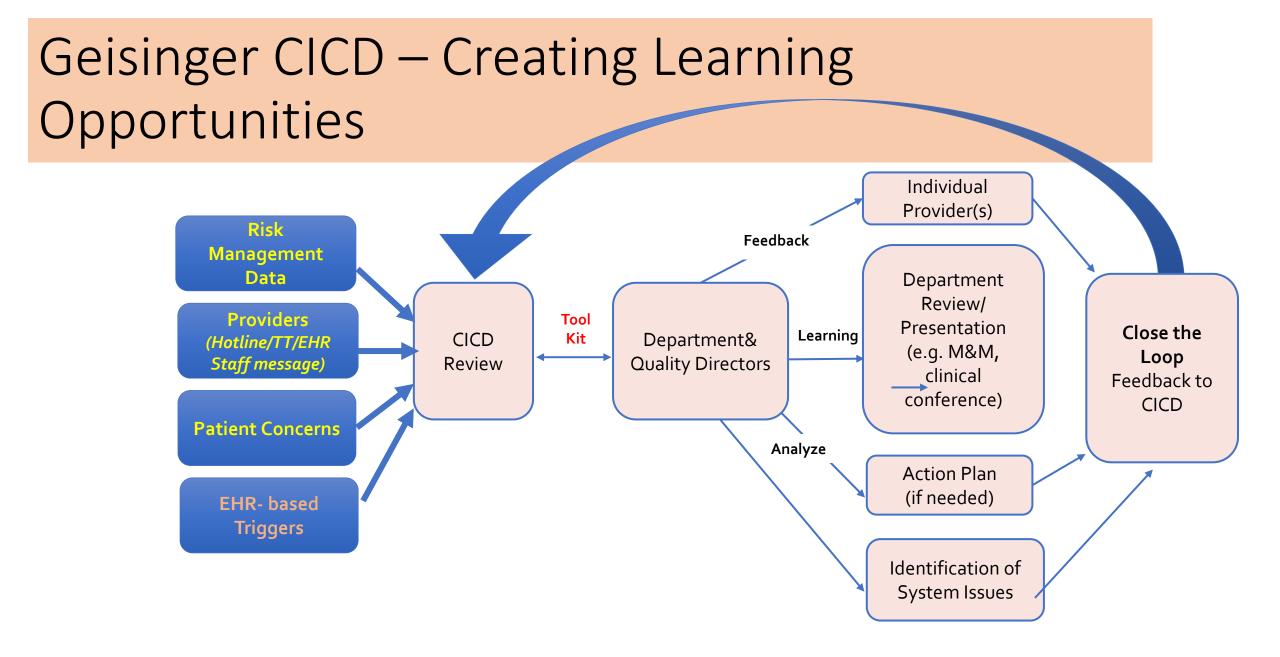
Diagnostic Error Workgroup (2014)

Initial Efforts to Identify and Categorize Errors Committee to Improve Clinical Diagnosis (2017)

Proposed Formal Program with Charter & Reporting Structure

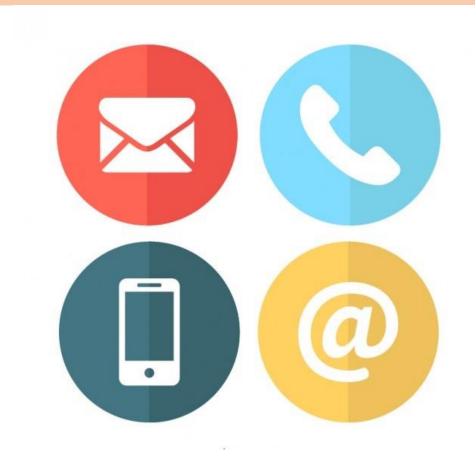
Program Development

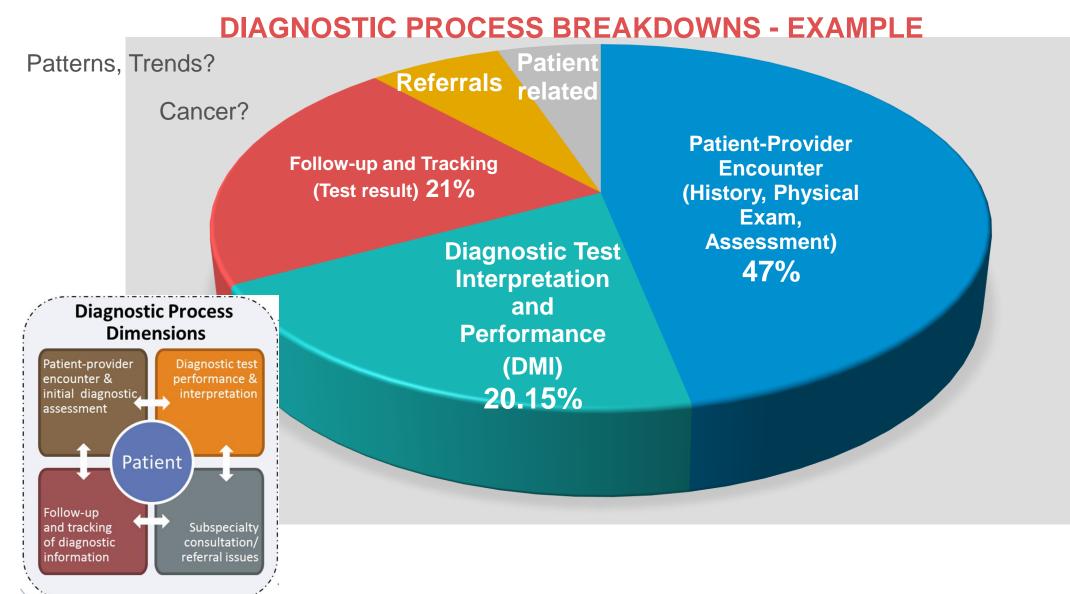
C-Suite Support + multi-stakeholder group



Sharing Diagnostic Opportunities with the Committee to Improve Clinical Diagnosis

- Call Pt Safety Hotline leave voicemail.
- Send Staff Message via EMR to POOL: "Diagnostic Opportunities"
- Page the group:
 "Diagnostic Opportunities"





Taxonomy

	Dimensions (select all that apply)
1) Patient Related	 Delay in seeking care Lack of adherence to appointments Other, please specify:
2) Patient-Provider Encounter	 Problems with history Problems with physical exam Problems ordering diagnostic tests for further work up Failure to review previous documentation Problems with data integration and interpretation Other, please specify:
3) Diagnostic Tests	 Ordered test not performed at all Ordered tests not performed correctly Performed tests not interpreted correctly Misidentification Other, please specify:

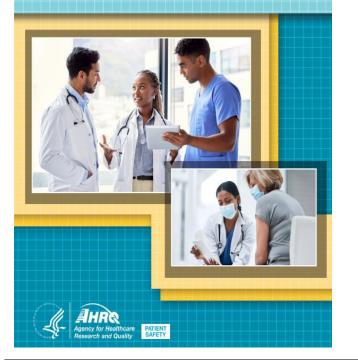
4) Follow-Up & Tracking	□ Problems with timely follow-up of abnormal diagnostic test results	
4) Tonow-Op & Hacking		
	□ Problems with scheduling of appropriate and/or timely follow-up visits	
	Problems with diagnostic specialties returning test results to clinicians	
	Problems with clinicians reviewing test results	
	Problems with clinicians documenting action or response to test results	
	Problems with notifying patients of test results	
	Problems with monitoring patients through follow-up	
	□ Other, please specify:	
5) Referrals	Problem initiating referral	
	□ Lack of appropriate actions on requested consultation	
	Communication breakdown from consultant to referring provider	
	□ Other, please specify:	

Reprinted with permission from Singh H, Khanna A, Spitzmueller C, Meyer AND. Recommendations for using the Revised Safer Dx Instrument to help measure and improve diagnostic safety. Diagnosis 2019;6(4):315-23. <u>https://doi.</u>



Where in diagnostic process What went wrong A Failure/delay in presentation B Failure/denied care access A Failure/delay in eliciting critical piece of history data B Inaccurate/misinterpretation C Failure in weighing D Failure/delay to follow-up A Failure/delay in eliciting critical physical exam finding B Inaccurate/misinterpreted C Failure in weighing D Failure/delay to follow-up Ordering A Failure/delay in ordering needed test(s) B Failure/delay in performing ordered test(s) C Error in test sequencing D Ordering of wrong test(s) E Test ordered wrong way Performance F Sample mixup/mislabeled (eg, wrong patient/test) G Technical errors/poor processing of specimen/test H Erroneous lab/radiology reading of test I Failed/delayed reporting of result to clinician Clinician Processing J Failed/delayed follow-up of (abnormal) test result K Error in clinician interpretation of test Hypothesis Generation A Failure/delay in considering the diagnosis Suboptimal Weighing/Prioritizing B Too little consideration/weight given to the diagnosis C Too much weight on competing/coexisting diagnosis Recognizing Urgency/Complications D Failure/delay to recognize/weigh urgency E Failure/delay to recognize/weigh complication(s) A Failure/delay in ordering referral B Failure/delay obtaining/scheduling ordered referral C Error in diagnostic consultation performance D Failure/delayed communication/follow-up of consultation A Failure to refer patient to close/safe setting/monitoring B Failure/delay in timely follow-up/rechecking of patient

Measure DX: A Resource to Identify, Analyze, and Learn From Diagnostic Safety Events



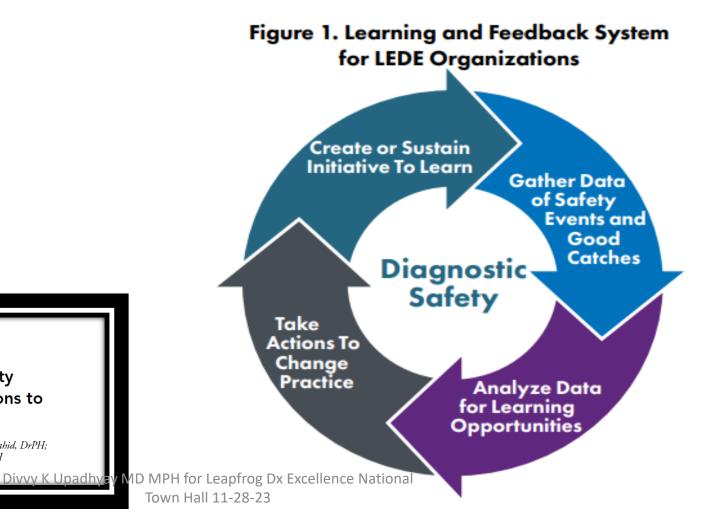
The Joint Commission Journal on Quality and Patient Safety 2022; 000:1–10

Developing the Safer Dx Checklist of Ten Safety Recommendations for Health Care Organizations to Address Diagnostic Errors

Hardeep Singh, MD, MPH; Umair Mushtaq, MBBS, MS; Abigail Marinez, MPH; Umber Shahid, DrPH; Joellen Huebner, MPH; Patricia McGaffigan, RN, MS, CPPS; Divvy K. Upadhyay, MD, MPH

An Action Plan for Developing LEDE Organizations LEDE = Learning & Exploration of Diagnostic Excellence

Singh H, Upadhyay DK, & Torretti D. **Developing health care** organizations that pursue learning and exploration of diagnostic excellence: An action plan. *Acad Med.* 2020 Aug;95(8):1172-1178



A Program to Provide Clinicians with Feedback on Their Diagnostic

Ashley N.D. Meyer, PhD * • Divvy K. Upadhyay, MD, MPH * • Charlotte A. Collins, PhD • Michael H. Fitzpatrick, MD • Maria Kobylinski, MD • Amit B. Bansal, MD, MBA • Dennis Torretti, MD • Hardeep Singh, MD, MPH 🖾 • Show less • Show footnotes

Open Access • Published: September 23, 2020 • DOI: https://doi.org/10.1016/j.jcjq.2020.08.014

A GUIDE TO GIVING FEEDBACK TO CLINICIANS

Providing Feedback on Diagnostic Performance

1) SCHEDULE THE DEBRIEFING 2) PLAN AND PREPARE FOR IN A TIMELY MANNER THE DEBRIEFING · Ensure that the debriefing · Encourage the recipient(s) occurs soon after the event to review the case before to promote a learning the debriefing. environment rather than a Consider including more than one person (e.g. care punitive one team) as recipients 3) SET A FLEXIBLE TIME 4) SET THE STAGE FOR A FRAME LEARNING ENVIRONMENT Schedule 10-20 minutes Take a non-judgmental for debriefing stance · Allow for more time with Explain the context, a larger group including goals and objectives Be aware of non-verbal cues 5) SEEK INPUT AND ALLOW 6) HAVE RECIPIENT(S) FOR EXPLANATION **IDENTIFY LEARNING** OBJECTIVES Discuss specific actions or decisions • Emphasize learning for the · Do not infer motives individuals, the care team, Explore unclear issues the department, and the with curiosity system Include what went well 7) END WITH APPRECIATION · For their input · For their time · For their willingness to help

improve clinical decision

making at the facility/system.

Variety of work on diagnostic safety possible -Feedback to frontline clinicians To Al-enabled disease management and population health programs

Catalyst Innovations in Care Delivery

ARTICLE

Collaboration to Improve Colorectal Cancer Screening Using Machine Learning

Daniel Underberger, MD, Keith Boell, DO, MS-HQSM, SFHM, Jeremy Orr, MD, MPH, Cory Siegrist, MBA, Sara Hunt

Vol. 3 No. 4 | April 2022

DOI: 10.1056/CAT.21.0170

Despite significant efforts and evidence to suggest the benefits of being screened for colorectal cancer (CRC), many eligible patients are not being screened for it. To help Geisinger Health System and Medial EarlySign identified patients overdue for CRC

Catalyst Innovations in Care Delivery

CASE STUDY

Managing patients with pulmonary nodules: Redesigning a system to achieve the three "rights"

Eric D. Newman, MD, Paul F. Simonelli, MD, PhD, Matthew A. Facktor, MD, J. Edward Hartle, MD

Vol. No. | June 5, 2020

DOI: 10.1056/CAT.20.0015

The traditional specialty consultation process is often associated with access issues, test overutilization, provider inefficiencies, care failure, and patient frustration. We designed

Divvy K Upadhyay MD MPH for Leapfrog Dx Excellence National process of care that addresses these issues systematically. To test this model of

Town Hall 11-28-23

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No shortage of ideas – then what do we lack...rather, what do we need?

- A shared mental model understanding this subject
- True "patient safety lens" medico-legal vs. learning health system
- Dedicated resources to address diagnostic safety.
- The right thing to do \rightarrow "You cannot not do it"
- But is it an organizational priority?
- Thanks to this work from the Leapfrog Group ... it could be!
- Remember this is not about the survey use this as a nudge!

RECOGNIZING EXCELLENCE IN DIAGNOSIS Recommended Practices for Hospitals July 2022





CEO Commitment to Diagnostic Excellence

1)	In the past 36 months, has your hospital's CEO made a formal commitment (verbally or in writing) to all staff to make reducing harm to patients from errors in diagnosis an organizational priority, and communicated at least one specific action the hospital will take to further the commitment?	Yes No
	If "no" to question #1, skip question #2 and continue to the next question.	
2)	What specific actions were communicated by your hospital's CEO as part of their formal commitment to reducing harm to patients from errors in diagnosis? <i>Check all that apply.</i>	Allocated financial resources Allocated staff time Designated a senior leader or clinician champion Formed a committee Implemented a performance measure Implemented a quality improvement project Other

Patient Engagement

3)	Has your hospital chartered a Patient and Family Advisory Council (PFAC) that meets regularly?	Yes
	If "no" to question #3, skip question #4 and continue to the next question.	No

Convening a Multidisciplinary Team Focused on Diagnostic Excellence

 7) In the past 36 months, has your hospital convened a multidisciplinary team that meets all of the following requirements? Specifically focused on reducing harm to patients from errors in diagnosis, Sponsored by either the CEO or CMO, Includes, at a minimum, representatives from nursing, pharmacy, laboratory medicine, radiology, pathology, hospital medicine or inpatient care specialists, emergency medicine, and quality or risk management, Meets at least quarterly, Reports to senior leaders quarterly, and Reports to the Board annually <i>If "no" to question #7, skip questions #8-15, and continue to the next question.</i> 	Yes No
8) Has the multidisciplinary team reviewed any clinical or administrative data, patient experience or patient reported data, or incident reports to identify or track errors in diagnosis?	Yes
If "no" to question #8, skip question #9 and continue to the next question.	No

Closing the Loop for Cancer Diagnosis

19) 12-month reporting period used:	01/01/2023 – 12/31/2023 07/01/2023 – 06/30/2024
 20) Do pathologists at your hospital routinely document the date in which they communicate pathology reports indicating a diagnosis of colon, lung, or breast cancer to a patient or a patient's ordering physician? If "no" to question #20, skip questions #21-24 and continue to the Affirmation of Accuracy. 	Yes No
21) Did your hospital calculate the proportion of colon, lung, or breast cancer diagnoses in which the patient or patient's ordering physician was notified within five business days of the report being signed by the pathologist, and do you choose to report those data to this Survey?	Yes No Yes, but fewer than 30 cases met the inclusion criteria for the denominator
22) Total number of patients (18 years or older) with a diagnosis of colon, lung, or breast cancer.	
23) Total number of patients indicated in question #22 with a documented communication between the pathologist <u>and</u> the patient <u>or</u> patient's ordering physician within five business days of the report being signed by the pathologist.	

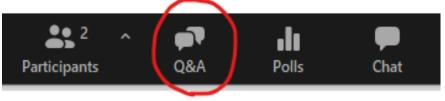
Thank you

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Q & A

Participants will be able to ask questions during the presentation. Please select the Q&A icon at

the bottom of your screen:



- Once the icon has been selected a Q&A box will appear for you to type your questions.
- All participants will be able to view the questions and answers during the duration of the webinar.
 - You will be receiving responses in real time from a member of our team.
 - We will include a transcript of the Q&A on the Leapfrog website here: <u>https://www.leapfroggroup.org/survey-</u> <u>materials/town-hall-calls</u>
 - Some questions may be answered live please pay close attention.

Following the presentation we will have a live Q&A session. Please use the Raise Hand icon at the

bottom of your screen:



• Once the icon has been selected you will be placed in the que. When it is your turn to ask your question, you will receive a prompt from the host asking you to unmute yourself.



Proposed Changes to the 2024 Leapfrog Hospital Survey

- Now available on the Leapfrog website: <u>https://www.leapfroggroup.org/survey-</u> <u>materials/proposed-changes-2024-leapfrog-hospital-survey</u>
- Open for Comment until Midnight ET on December 15, 2023
- Leapfrog is proposing to assess hospital implementation of <u>five</u> evidence-based practices and one process measure aimed at reducing harm to patients from errors in diagnosis, including delayed, wrong, and missed diagnoses, and diagnoses not communicated to the patient:
 - The five practices will focus on CEO commitment, patient engagement, risk assessment and mitigation, convening a multidisciplinary team, and staff training and education.
 - The process measure is focused on closed loop communication of cancer diagnoses to patients or their ordering physician.



Thank you for joining us today.

Questions? Contact the Help Desk at https://leapfroghelpdesk.Zendesk.com

