

RLI Power Hour

8/23/2023

Solis Mammography: The pain and joy of improvement at scale

Chirag Parghi, M.D., M.B.A
Chief Medical Officer, Solis Mammography

About Solis Mammography The nation's largest independent provider of breast screening and diagnostic services

1M+

Serves more than **1 million** women each year.

100 +

 Operates more than **100** locations in the U.S.

30 +

 Helping women years.



achieve breast health for more than **30**

Cohort 1: April to November 2022





Project Team

2 Strategic locations chosen:

- Rose Medical Denver (large)
- **Progressive BelAir MD** (small)
- Project Sponsor: Chirag Parghi, MD
- Each site project team consisted of:
 - Team Leader (the local center director)
 - Physician Leader (LIP)
 - QI Coach
 - Team of 3-4 Staff Technologists



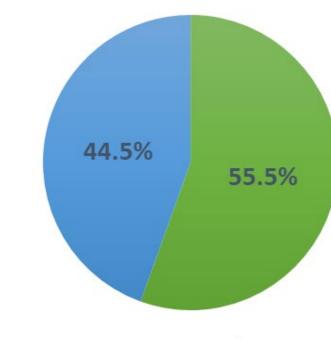
Mammography Positioning Improvement Collaborative ACR LEARNING NETWORK Improving Performance Together



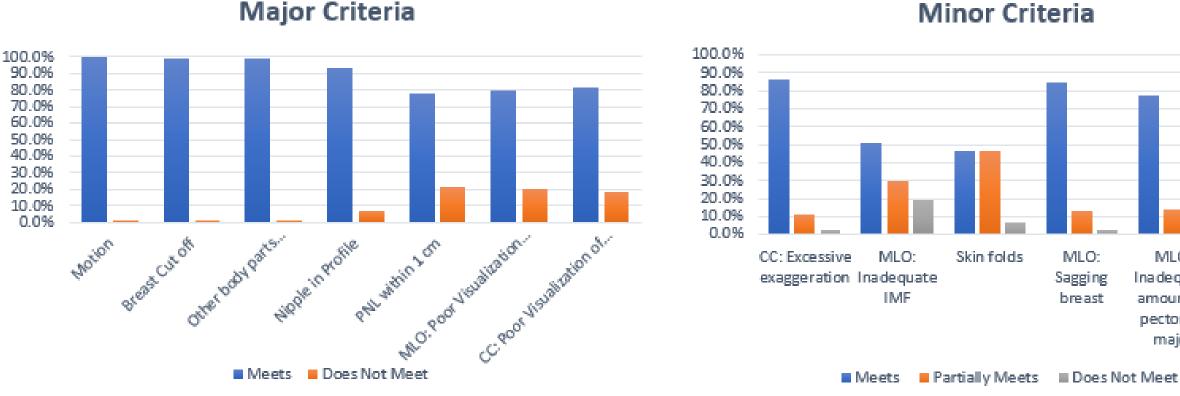
Initial Audit Data

236 screening mammograms between Apr-May 2022

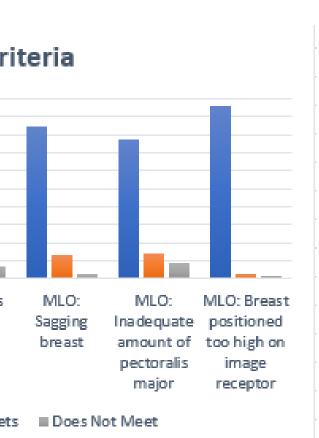
Overall Case Score (Pass/Fail)



Pass Fail



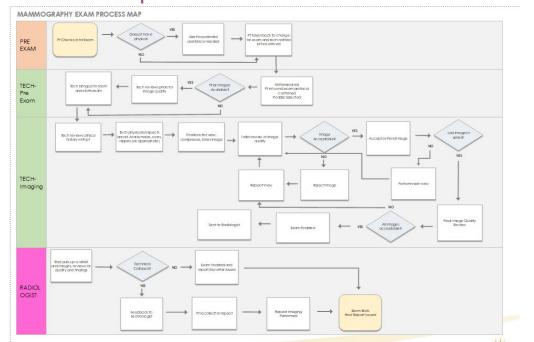
Major Criteria



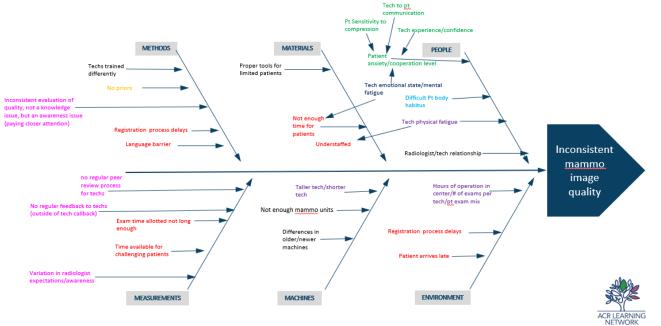


Analysis

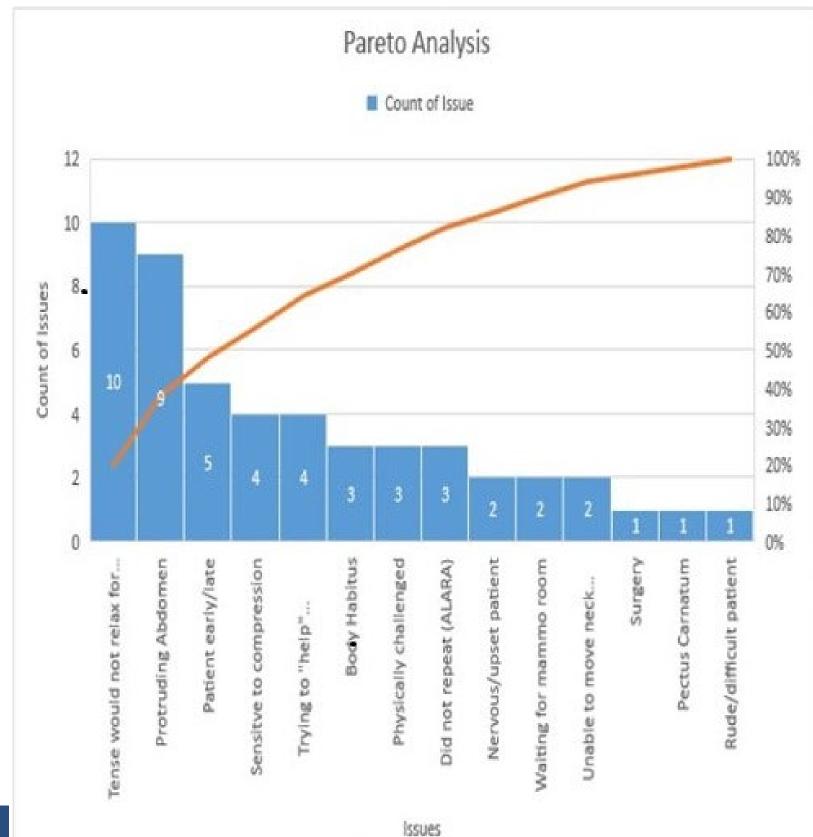
Process Map



Cause and Effect Diagram



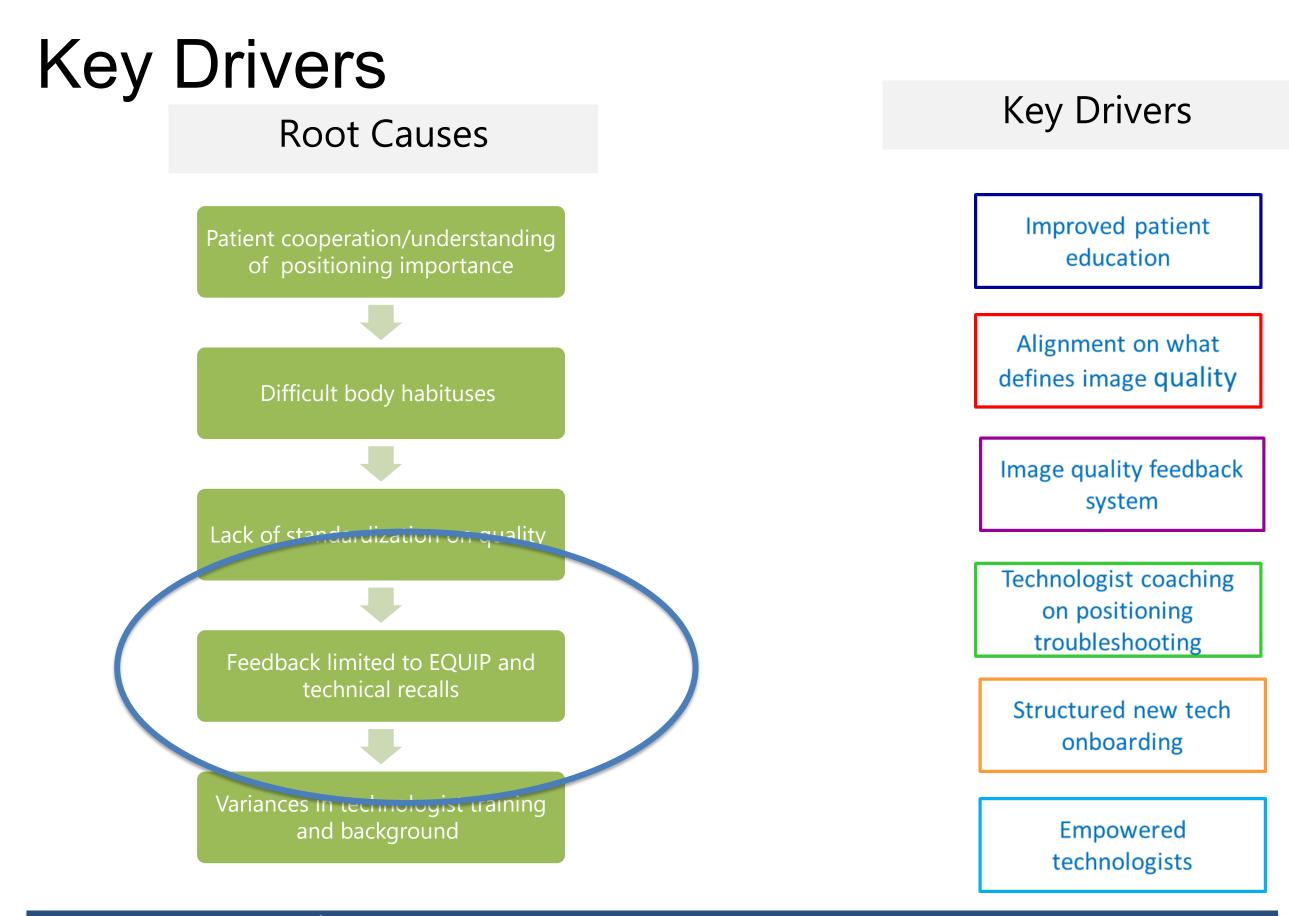
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(Sorted by Count in Descending Order)



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Reliability Level:

(1) Individuals: Feedback, checklists, training, basic standards (2) Procedures: Embedded standard work, reminders, constraints (3) Systems: Process design, fail safes, physical layout, built-in feedback, automated systems, concentration of responsibility

Interventions

Improved patient education

Better Education = Better *Cooperation = Better* Imaging

Technologist coaching on positioning troubleshooting

Structured new tech onboarding

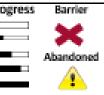
- Patient Education Sheet
- Tech to Patient Communication
- Pink ribbon for feet position

- Positioning Articles/Videos
- Case of the month
- Positioning coach

- Standardized method
- Quality standards \bullet
- Auditing positioning skills lacksquare

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Maturity Bars:	Progr
O: Untested idea	
1: Early tests / PDCA	
2: Multiple PDCAs	
3: Early implementation	
4: Working well in operation	

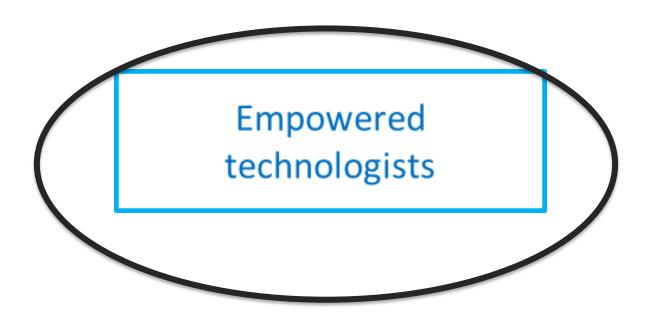




Interventions

Alignment on what defines image quality

Image quality feedback system



(1) Individuals: Feedback, checklists, training, basic standards

systems, concentration of responsibility

(2) Procedures: Embedded standard work, reminders, constraints

Reliability Level:

images

- Regular random audits

- Techs engaged in audits
- Learning together, accountability

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(3) Systems: Process design, fail safes, physical layout, built-in feedback, automated

0: Untested idea 1: Early tests / PDCA 2: Multiple PDCAs 3: Early implementation 4: Working well in operation



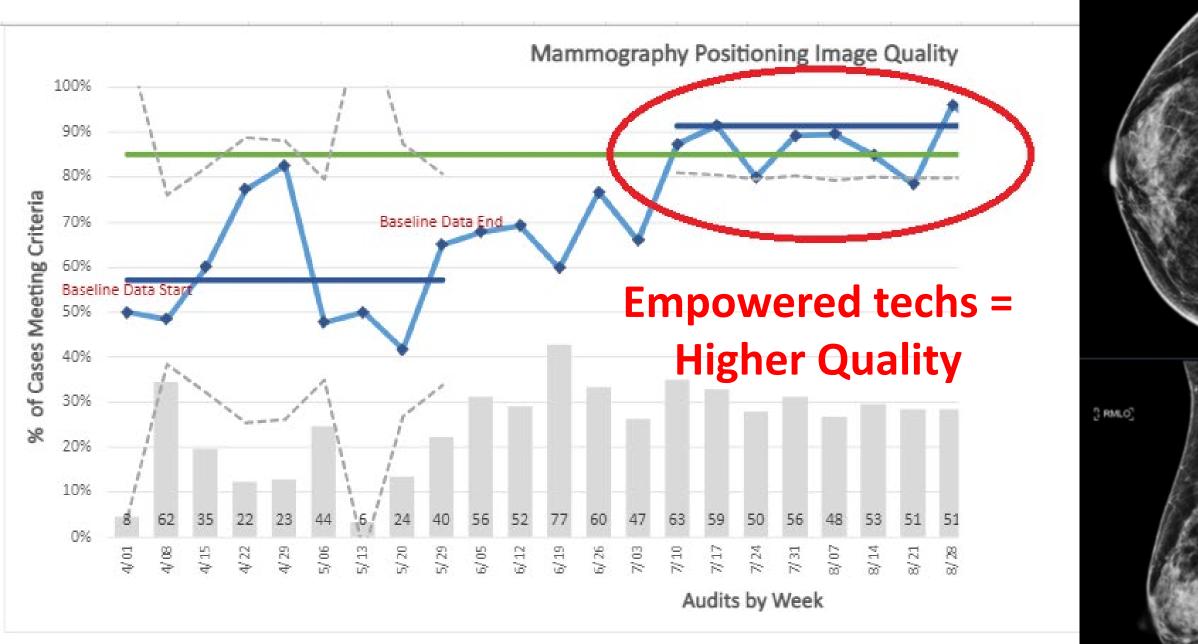


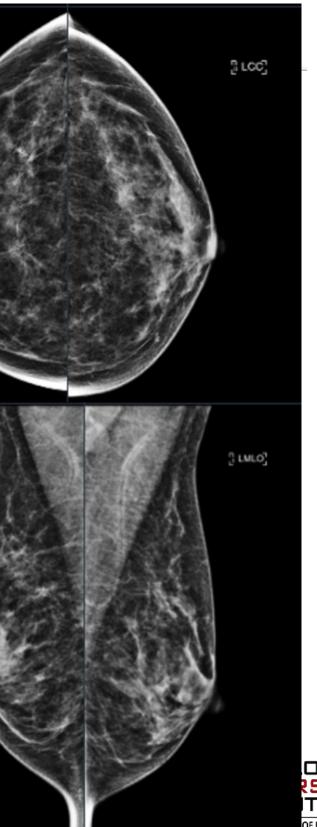
Educational tool with examples of quality

Meaningful feedback from Rads to techs

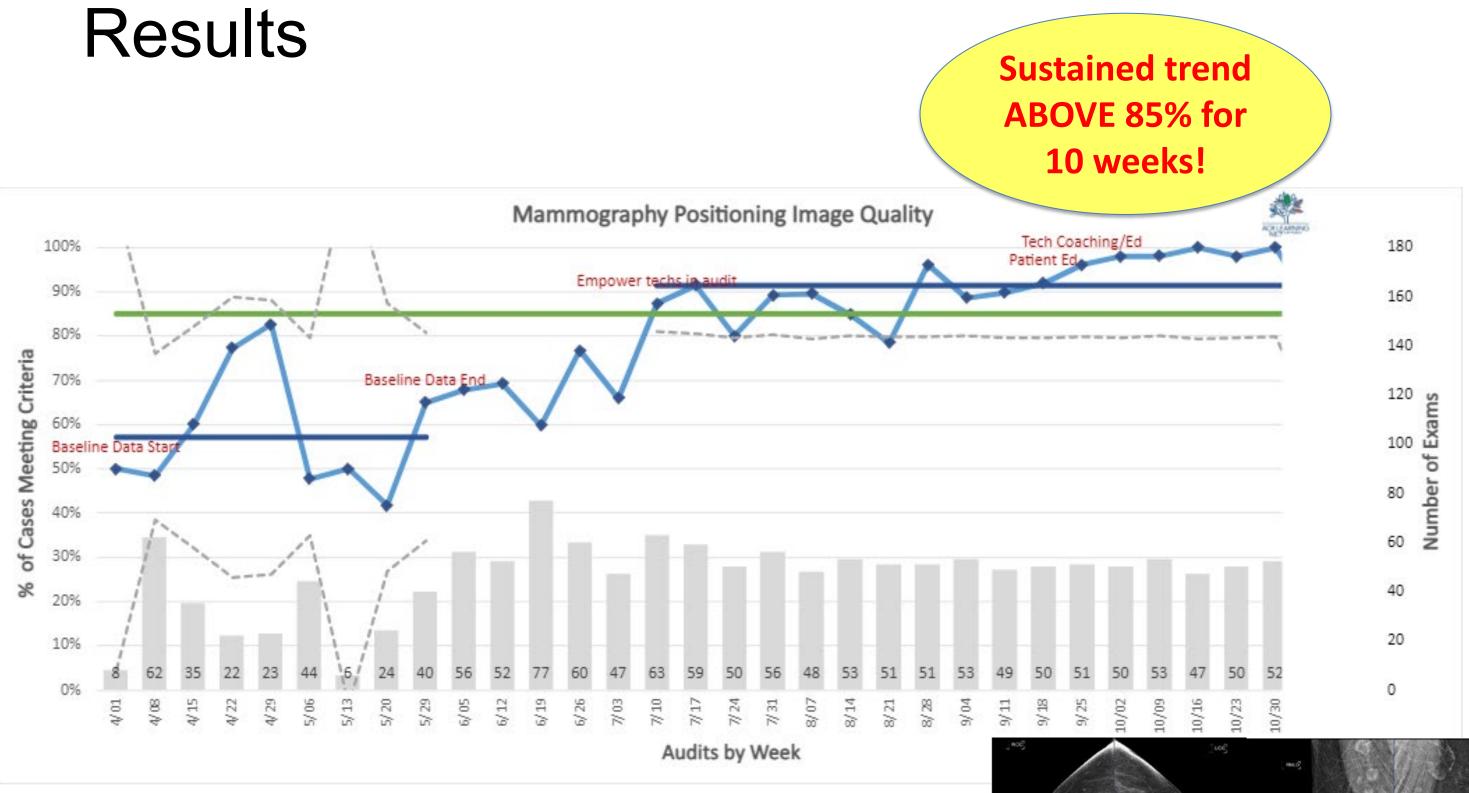


Results



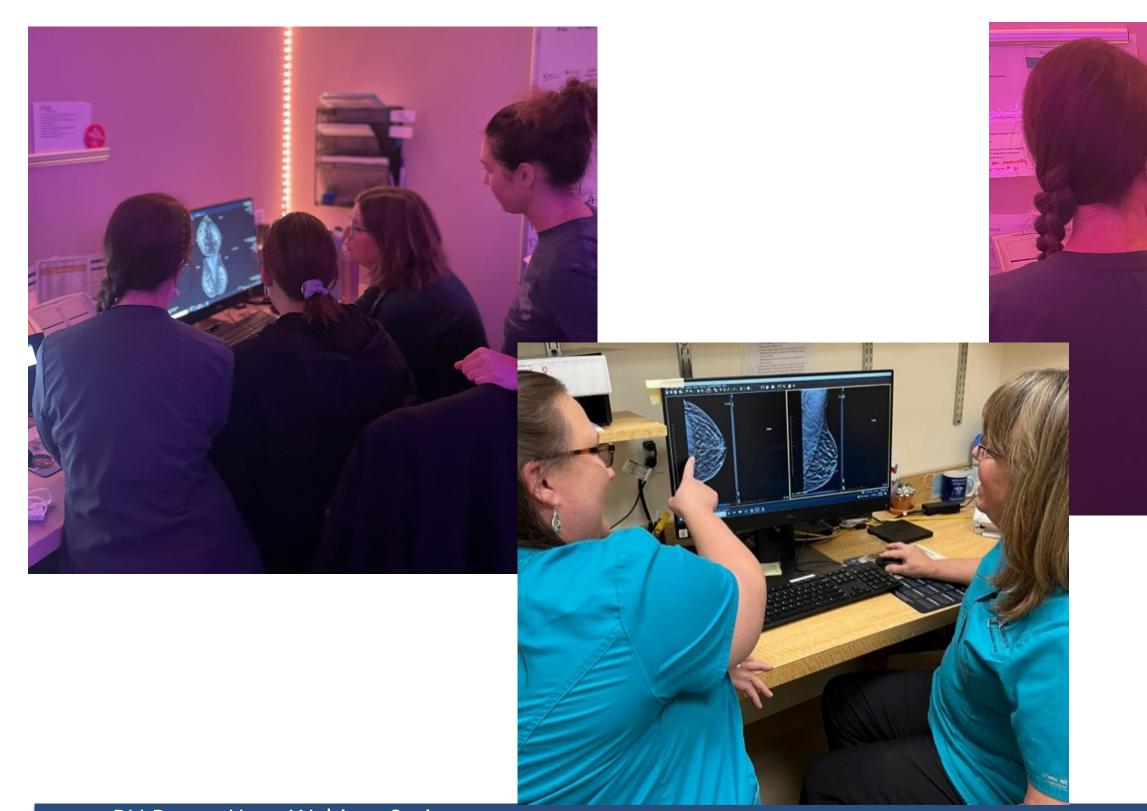








Empowerment is KEY!







Cohort 2: March to September 2023



Evolution of Learning

Cohort 1: Belair, Md & Denver, Co



Cohort 2: 3 sites in greater Houston area

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Larger, scalable audit process throughout Solis



My learning lessons from the ACR Mammo Collaborative

- Change is the healthy antidote to complacency
- Ambiguity and subjective self-evaluations of quality aren't good enough
- Meaningful improvement requires deep introspection before action
- Change at scale is different from change in a clinic
- Tight labor markets are opportunities for creativity!

