

Peer Learning Practices in Different Environments – Current Best Practices and Lessons Learned on the Journey for Large Academic Group

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My department

- 101 Faculty
 - Almost 100% sub-specialized
 - Dedicated ED radiology division with 27/4/365 attending coverage
- 29 Fellows
 - Breast, Body, MSK, Neuro, IR, Nucs, ED
- 57 residents

Yale Peer-Review program- in place since 2011

Rad-Peer “scoring” system

- 1=Concur with interpretation
- 2=Difficult diagnosis, not ordinarily expected to be made
- 3=Diagnosis should be made most of the time
- 4=Diagnosis should be made almost every time

Enter 1 case/day- Told to pick 1st case we read and most recent comparison. Not random, not blinded.
Great call category created in 2014

Yale IRIS

IMPROVED RADIOLOGY INTERPRETATION SYSTEM

- Quarterly dept. wide 1 hour conference during lunch hour started in April 2013
 - Broadcasted online
 - Abdominal, US, Peds, MSK, Chest, and Neuro participation for many years
 - ED division added in last year
 - Each sections QA lead
 - All great call cases and all score 3 or 4 cases reviewed
 - Error analysis and pt outcome analysis completed for each case by section peer review champion

Yale IRIS

IMPROVED RADIOLOGY INTERPRETATION SYSTEM

- 2 best cases that offer learning opportunities shown per section
 - Usually one “discrepancy” and one “great call”
 - Cases stripped of all pt identifier data
 - Audience response system (Poll Everywhere) used to allow engagement
 - Teaching points emphasized

Where should be going
next?

October 2018

- Transitioned to a peer learning entry system
- 2 cases per month/radiologist
 - Not random, but radiologist driven by impact for learning
 - Competency assessment now in hands of section chief for OPPE
 - We used to report score 4 data per radiologist to administration
 - We now report participation in program, not “scores”
 - Section specific quarterly conferences to share cases not shown in IRIS
 - Breast and ED Division added into program

Attributes of a good peer learning system

- Fair and transparent system run by a physician's peers to identify opportunities for additional education, error reduction, and self-improvement
- Non-punitive with focus on learning
- Some form of sharing in divisions/departmental

peerVue QICS

peerVue QICS

YNHH Peer Learning

YNHH Peer Learning

YNHH Peer Learning

YNHH Peer Learning

- YNHH Peer Learning

- YNHH Peer Learning

 Potential Teaching Case Potential Teaching Case Great Call Great Call Potential Learning Opportunity Potential Learning Opportunity

- Responsible Section

- Responsible Section

Responsible Section

Responsible Section

Select Item

Select Item

Confirm Reviewee

Unknown user

Accession

#



Submit & Close

Current User: peerVue Administrator

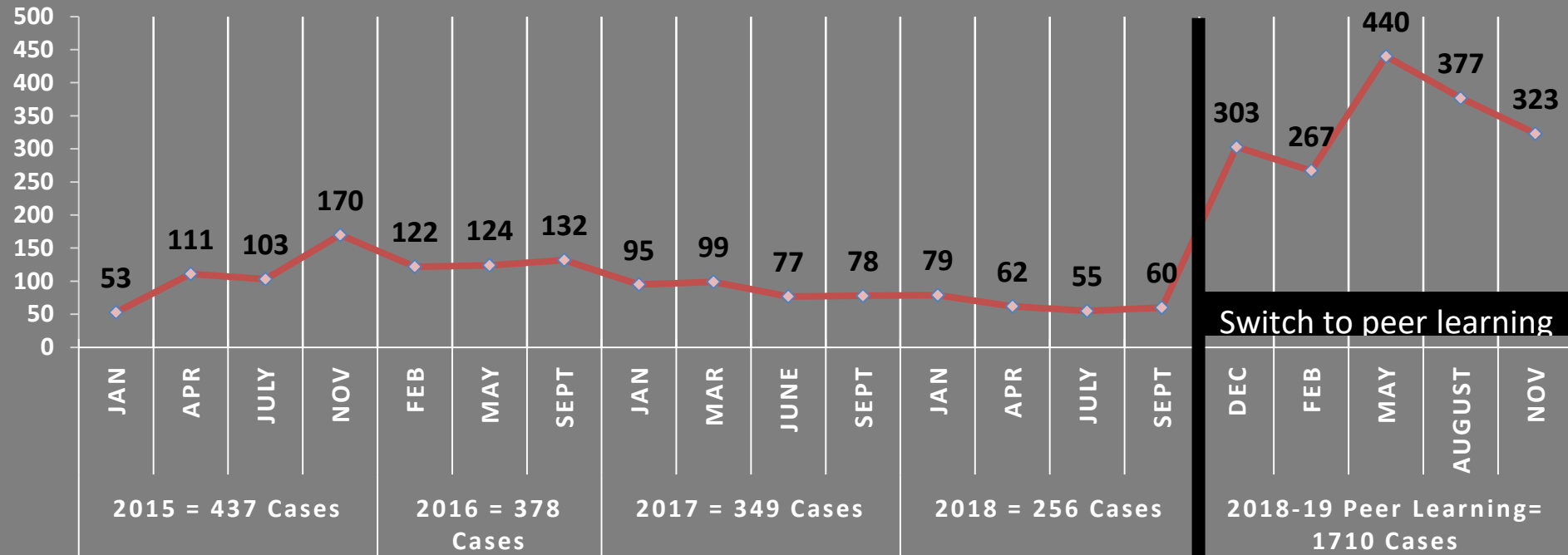
Select Item

- C Abdominal Radiology
- I Breast Radiology
- Cardiac Radiology
- Chest Radiology
- Community Radiology
- Emergency Radiology
- Interventional Radiology
- A MSK Radiology
- # Neuroradiology
- Nuclear Medicine
- Pediatric Radiology
- Ultrasound
- Other

Current User: peerVue Administrator

Case counts that offer learning opportunity

Number of Peer Review Cases Submitted: 2015 - 2019



2015-18: Score 3/4 and great calls

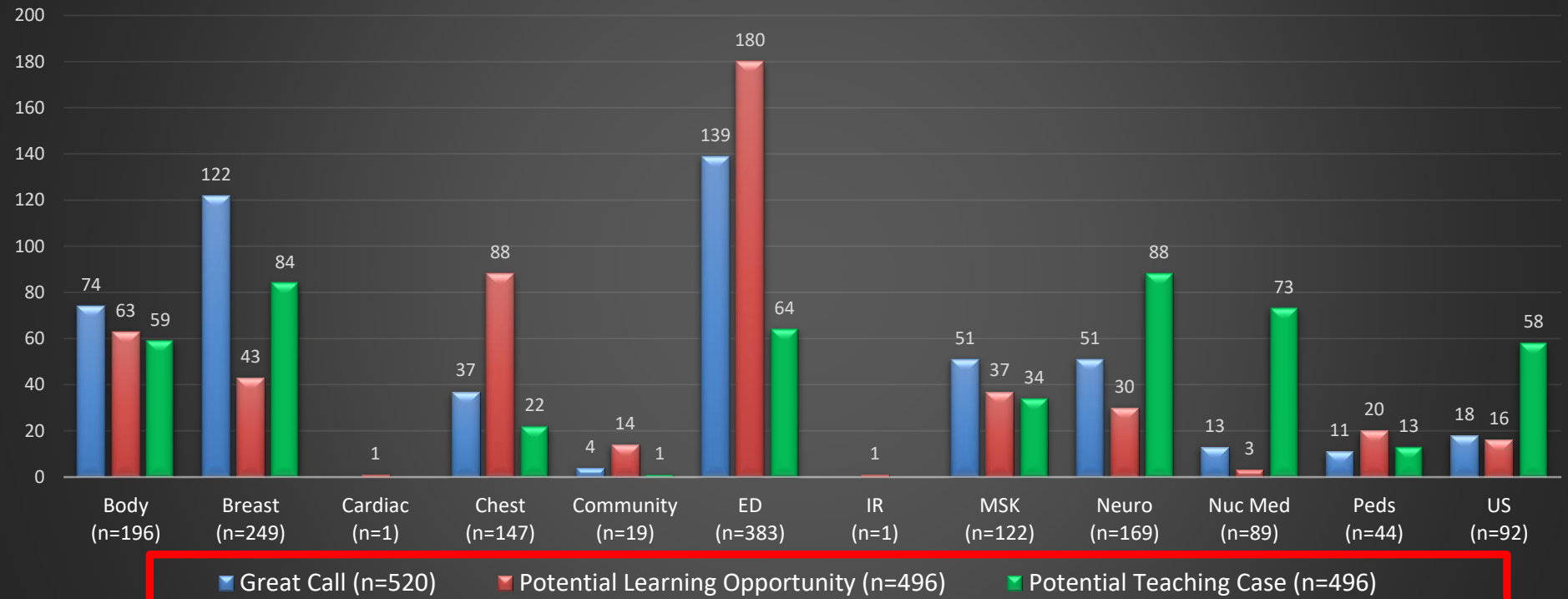
2018-19- PLO, great call, great teaching case

Number of **meaningful** cases entered

- Average per year over last 4 years (w/ RAD-PEER like system)= **355**
- One year peer learning= **1603 (Oct to Oct)**
- **Our prior YEARLY case count of cases that may offer learning potential now seen QUARTERLY**
– **450% rise!**

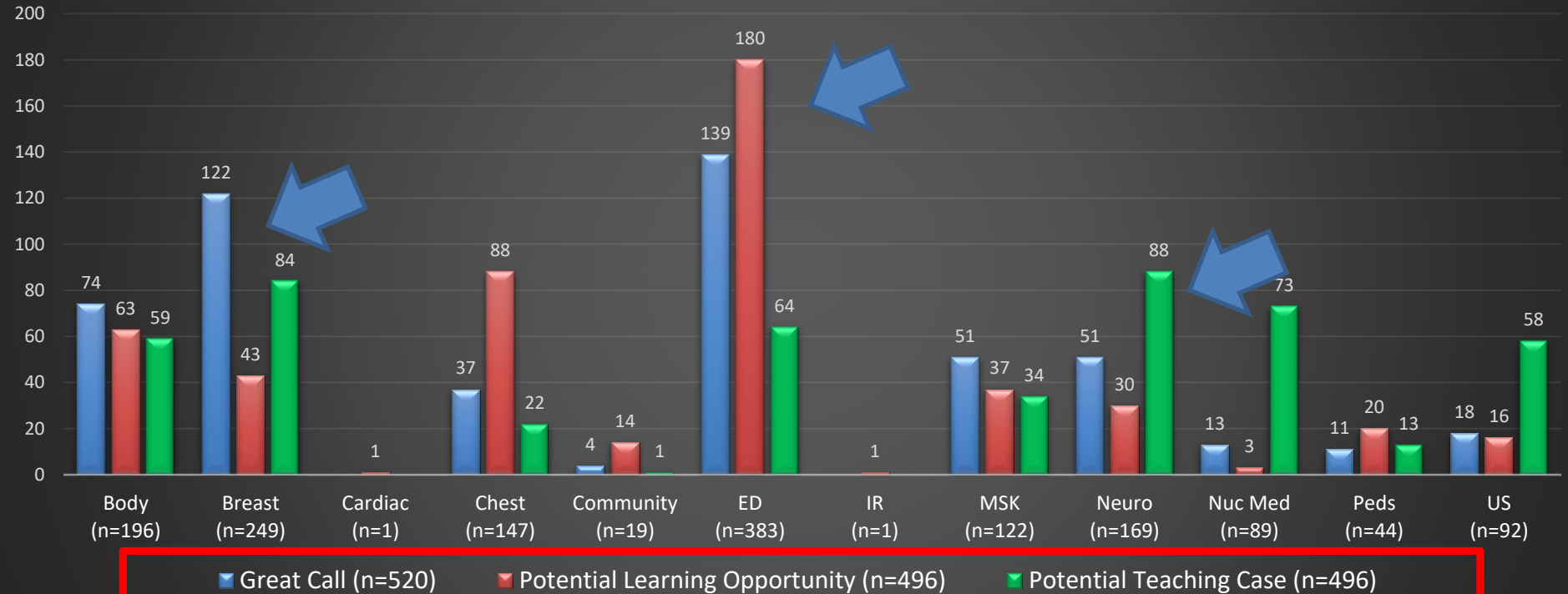
How is the program being used?

Spectrum of case entry



“Outliers”?

Spectrum of case entry



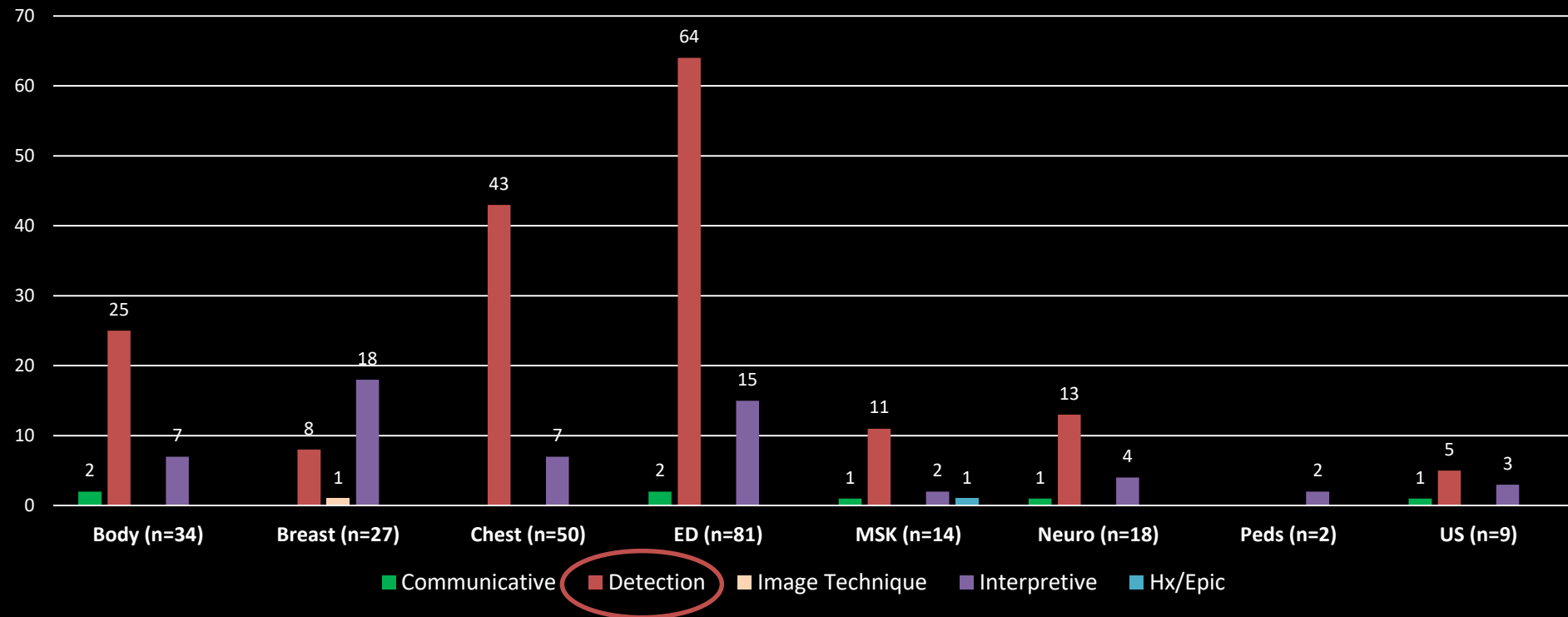
Differences in use by section

- 3/10- Great calls most common
- 4/10- Potential Learning Opportunity most common
- 3/10- Teaching case most common

- If your dept. has a dedicated ED/community group it warrants some special attention
 - Challenging for ED radiologists as they read across multiple divisions
 - Follow ups done by sub-specialists, but exams read by “generalists”
 - Hard to apply same standards as the sub-specialists tend to think all findings they would see ED Radiologist should see too.....
 - Sub-speciality staff don’t know the ED section members as well
 - Often not at dept. grand rounds etc due to shift work

“Error” Classification

Jan-Aug 2019



What gets reported for PLOs?

- 70/30 split for detection and interpretive
 - We tend to enter detection (not seen) issues much more commonly than mis-interpretion (seen but wrong conclusion)
- Challenging to get system based issues entered

Where we continue to struggle

- Case submission
 - Some individuals submit a lot, some enough to hit “requirements”
 - Some still prefer to not enter any PLO cases
- Work Environment
 - Hard to get 100% anonymous- people often guess who entered case based on follow-up
 - Too emotional
 - Colleagues still feel upset when they get a case
 - Colleagues tend to focus more on whether they agree with comments (and less on learning potential)
 - Teaching comfort with disagreement
 - Still possible for faculty to “target” individuals
- Value
 - Current systems are not outcome measures
 - Would need to review many more cases than 1x/day to have enough power to detect meaningful differences in radiologist performance

Tips for launching a program in large academic practice

- Form a team
 - Sectional leads
 - Overall program lead/leads
 - Some “policing” is needed to eliminate fluff and edit cases comments
 - Picking your lead is important
 - Needs to be respected, needs to be clinically excellent
 - It is a hard program to run/lead
- Ensure system embedded into PACS/Work-flow manager
 - It has to be easy and quick for case entry.... or expect poor participation
 - Participation should be mandatory- if you have to report anything, report this

Tips for launching a program in large academic practice

- IR should have separate M and M/Learning Conference
- Must share cases in some fashion
 - One bigger conf. is great for generalists/ED and trainees
 - Our residents and fellows find this conf. extremely valuable
 - Smaller sectional conf. allow more nuanced teaching points
 - This also allows review of all other cases not shown in our IRIS conf.
- Recognize great calls
 - Learn from successes & failures

Smile if you like peer learning!



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