

# Assessing the utility of an evaluation app for Diagnostic Radiology Residents on a Transition to Practice rotation

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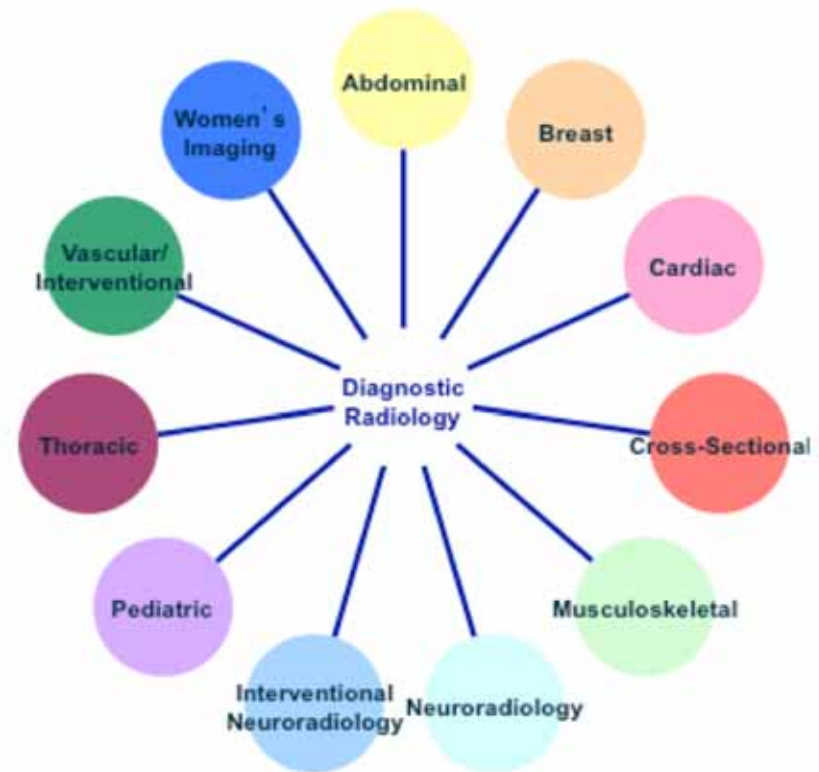
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# Disclosure

- We have had no affiliation with a pharmaceutical, medical device or communications organization within the previous 24 months (financial or otherwise).

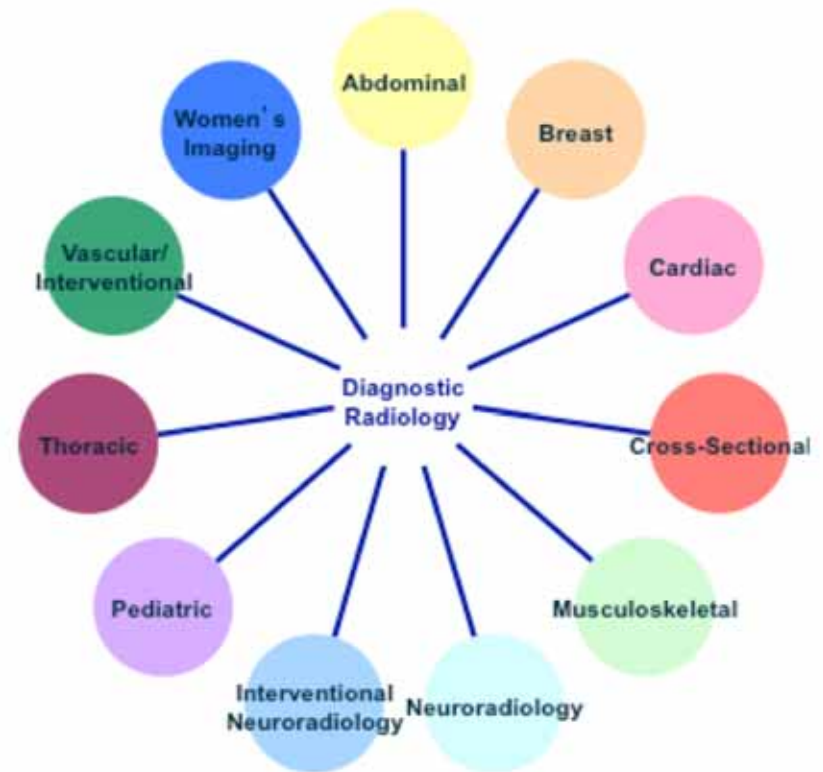
# Introduction

- Transition to Practice (TTP) rotation
  - Postgraduate year five (PGY-5) Diagnostic Radiology Residents
  - Move between subspecialty areas on a daily basis
  - Fill in knowledge or skill gaps



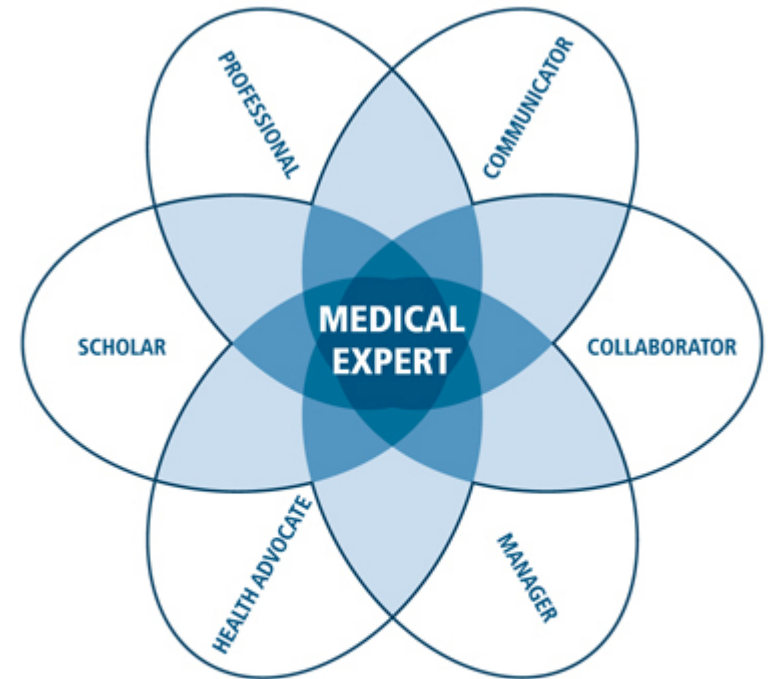
# Introduction

- TTP format makes **evaluation challenging**
  - Supervisors potentially changing on a daily basis
  - Rotation supervisor may have limited direct observation of Resident performance



# Purpose

- To **assess** the **utility** of a daily evaluation app created for the TTP rotation
  - 1) Allows each subspecialty supervisor to provide feedback
  - 2) Immediate and face-to-face interaction
  - 3) Based on daily, direct observation




# Methods

- PGY-5 Diagnostic Radiology Residents on a **four-week** TTP rotation
  - Moving between subspecialty areas of their choice
- Daily subspecialty supervisors
  - **Daily app** evaluation
  - Review Resident performance at end of shift
- Overall rotation supervisor
  - Traditional **end-of-rotation** in-training evaluation report (**ITER**)

Transition to Practice Daily Evaluation Form

\* Required



List of Residents \*  
Choose Your Name from the List

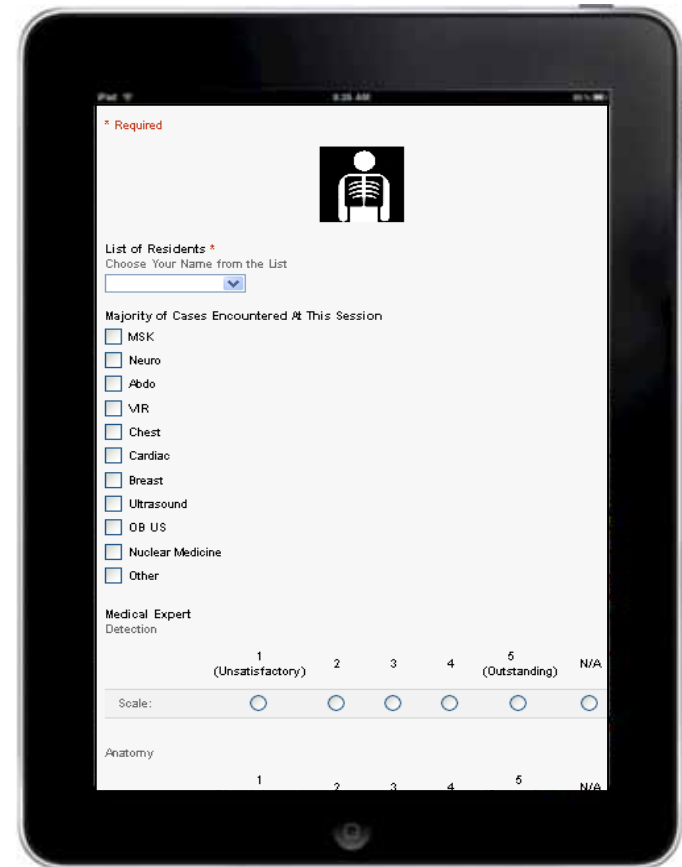
Majority of Cases Encountered at This Session

- MSK
- Neuro
- Abdo
- MR
- Chest
- Cardiac
- Breast
- Ultrasound
- OB US
- Nuclear Medicine
- Other



# Results – TTP rotation

- **13 Residents** completed 14 TTP rotations
  - Median of **9 app** and **1 ITER** evaluation completed per rotation
- Residents moved between a median of **3 subspecialty areas** during their TTP rotation



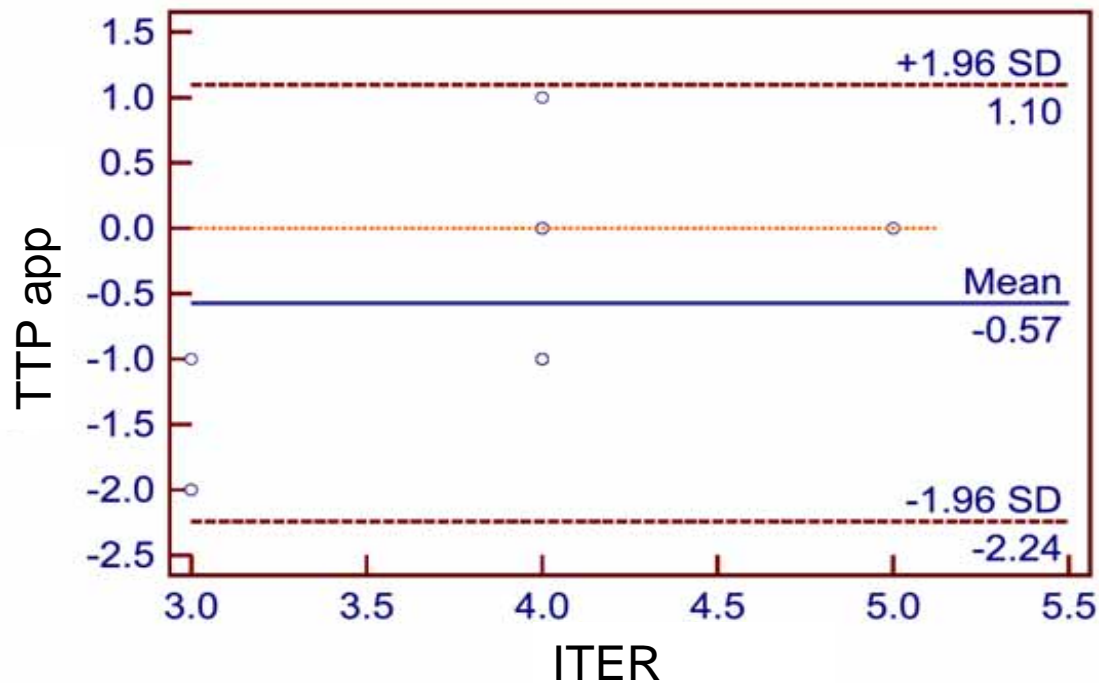


# Results – ITER vs. TTP app

- TTP evaluation using the **ITER**
  - Median time to completion was **6.5 days**
    - Wide range of 0 to 144 days
  - **79%** face-to-face feedback
  - Comments were provided **60%** of the time
- TTP evaluation using the **app**
  - **Immediate** completion of evaluation
  - **100%** face-to-face feedback
  - Comments were provided **77%** of the time

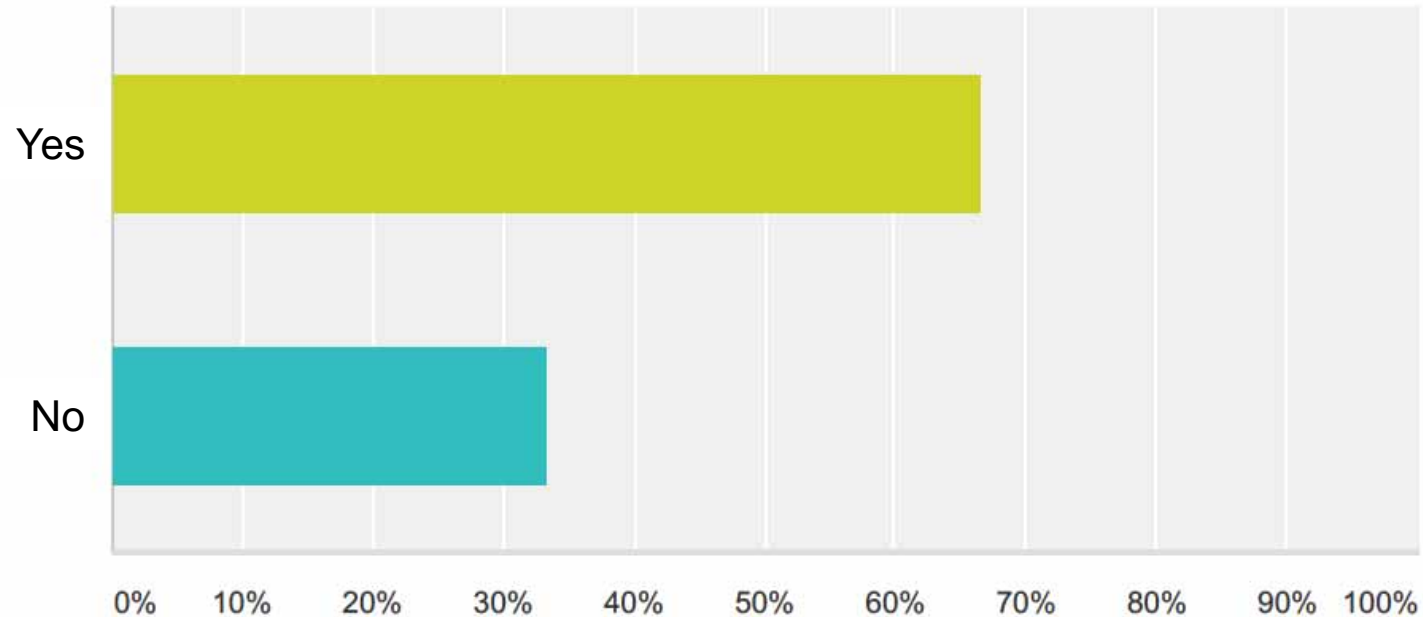
# Results – ITER vs. TTP app

- TTP app shows an **acceptable agreement** with the ITER gold standard
  - Bland-Altman plot bias of -0.57 (SD=0.85)



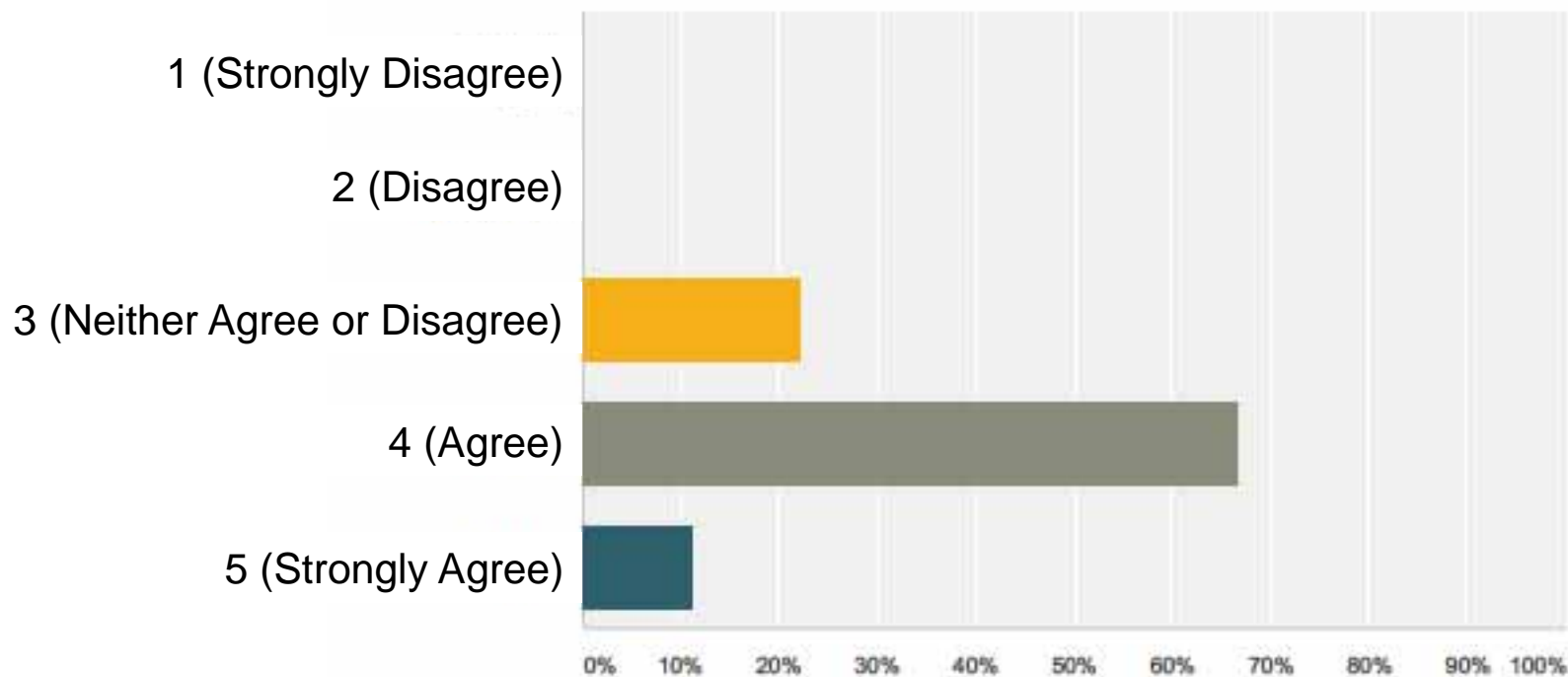
# Results – Satisfaction Survey

- Satisfaction survey of Residents
  - Do you think that the TTP app is a **useful assessment tool**?



# Results – Satisfaction Survey

- Satisfaction survey of Residents
  - Were the subspecialty supervisors cooperative using the TTP app?



# Discussion – ITER vs. TTP app

- TTP app provides **immediate feedback**
  - Direct observation from daily shift
  - Minimizes recall bias
  - Specific feedback on daily performance and competencies
- Physical mobile device with app ensures **face-to-face encounter** between Resident and daily supervisor

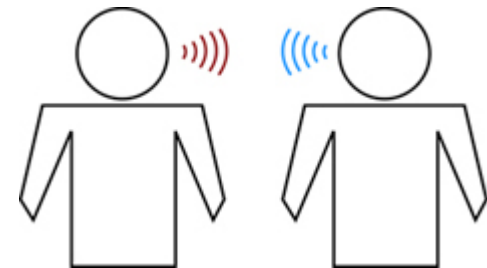
	ITER	TTP app
Time to completion	6.5 days (range 0-144)	Immediate
Face-to-face feedback	79%	100%
Comments provided	60%	77%

# Discussion – Satisfaction Survey

- Residents found the TTP app to be a **useful assessment tool**
  - Real time feedback and addresses issues on the spot
  - Daily supervisor knows Resident well versus ITER supervisor who may have had limited contact with Resident
- **No cooperation issues** with subspecialty supervisors completing the daily TTP app evaluations

# Conclusion

- TTP app provides immediate feedback for residents based on **direct observation**
  - Direct observation by radiologists
    - Multiple evaluators give different types of feedback
  - Face-to-face feedback guaranteed
  - Same-day evaluation (**formative feedback** given during learning process)
    - Focuses on specific details of everyday performance
- TTP app was found to be an appropriate and useful evaluation tool



# Next Steps

- Implement TTP rotation for Residents in **other postgraduate years**
- Develop app that can be downloaded onto all **personal mobile devices**, not just department-owned iPads
  - **Offline functionality** → Wi-Fi is not reliable at all hospital sites

