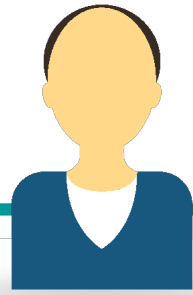




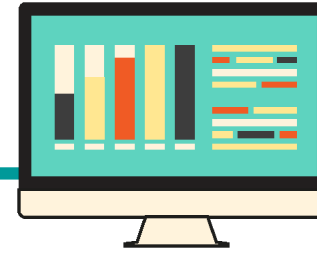
Are all fusion biopsies created equal? Substantial Practice-level Variation in a State-Wide Quality Improvement Collaborative

Richard C. Wu, Ji Qi, Anna Johnson, Susan Linsell, Prasad Shankar, David Miller, Arvin K. George

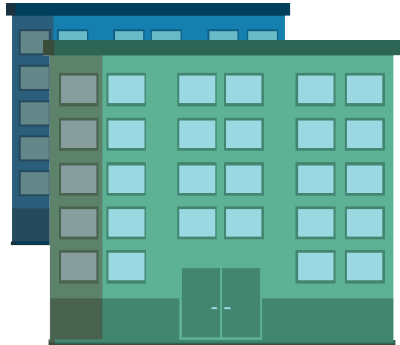
Making Michigan #1 in Urologic Care



11 Patient Advocates



>70,000 Cases



46 Practices



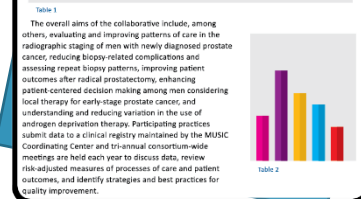
260+ Urologists



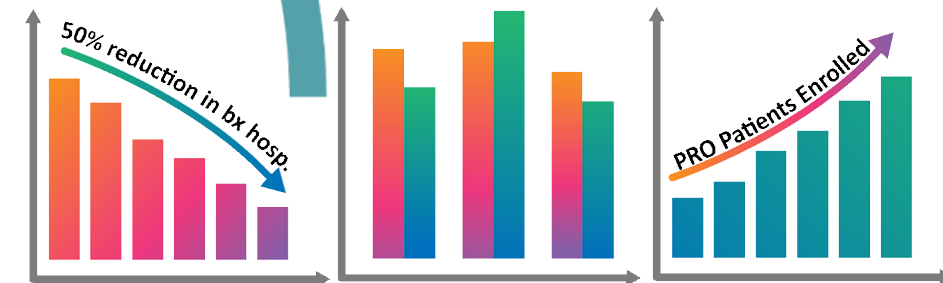
41 Peer-Reviewed Publications

The Michigan Urological Surgery Improvement Collaborative (MUSIC), established in 2011, is a physician-led quality improvement collaborative comprised of a consortium of urology practices in the state of Michigan. The collaborative is designed to evaluate and improve the quality and cost efficiency of prostate cancer care for men in Michigan.

Our vision is to be an innovator in physician-led quality improvement activities related to prostate cancer care in Michigan. By collecting clinically-credible data, comparing performance among our peers, sharing best practices, and implementing changes in clinical behavior, we will achieve more efficient utilization of healthcare resources, improve care delivery in our own environments, and enhance the quality, value, and outcomes of treatment provided to men in Michigan with prostate cancer.

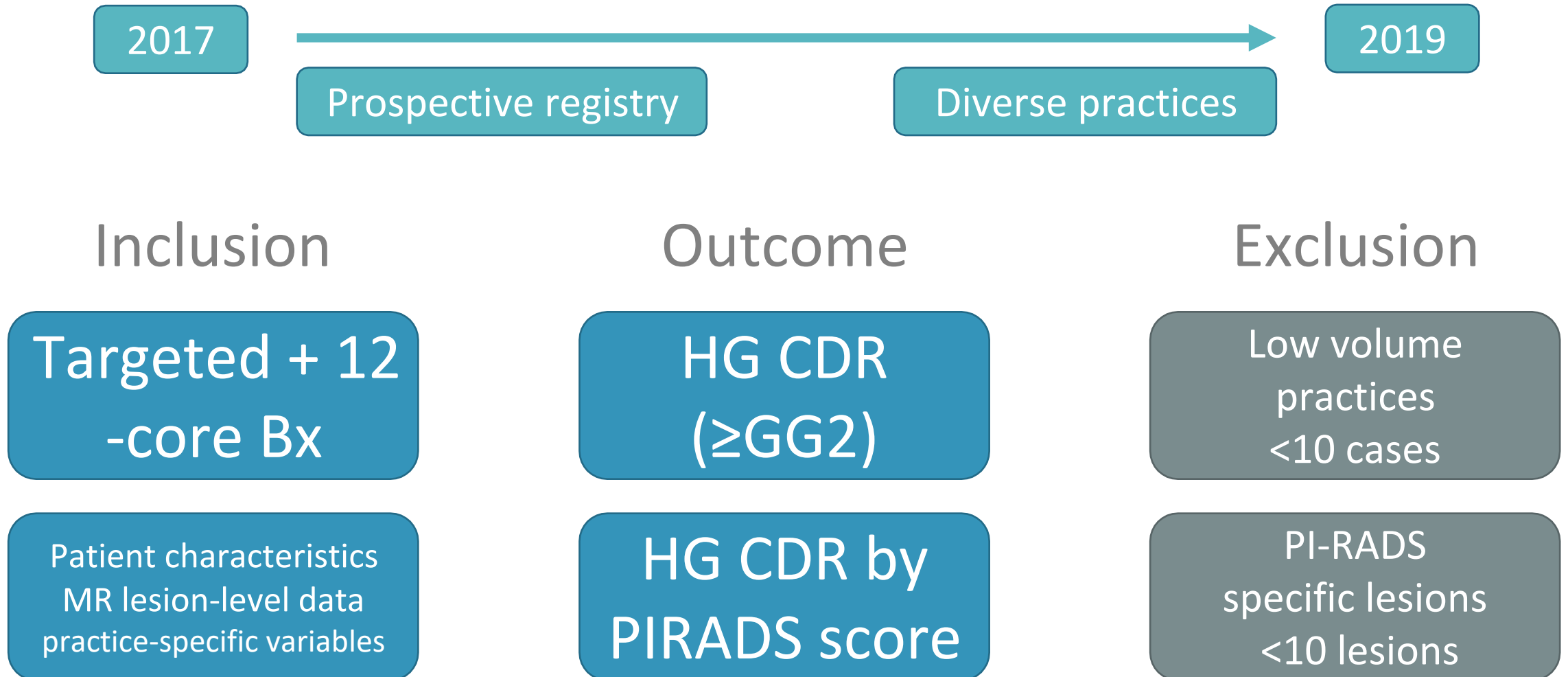


Development of Imaging Appropriateness Criteria

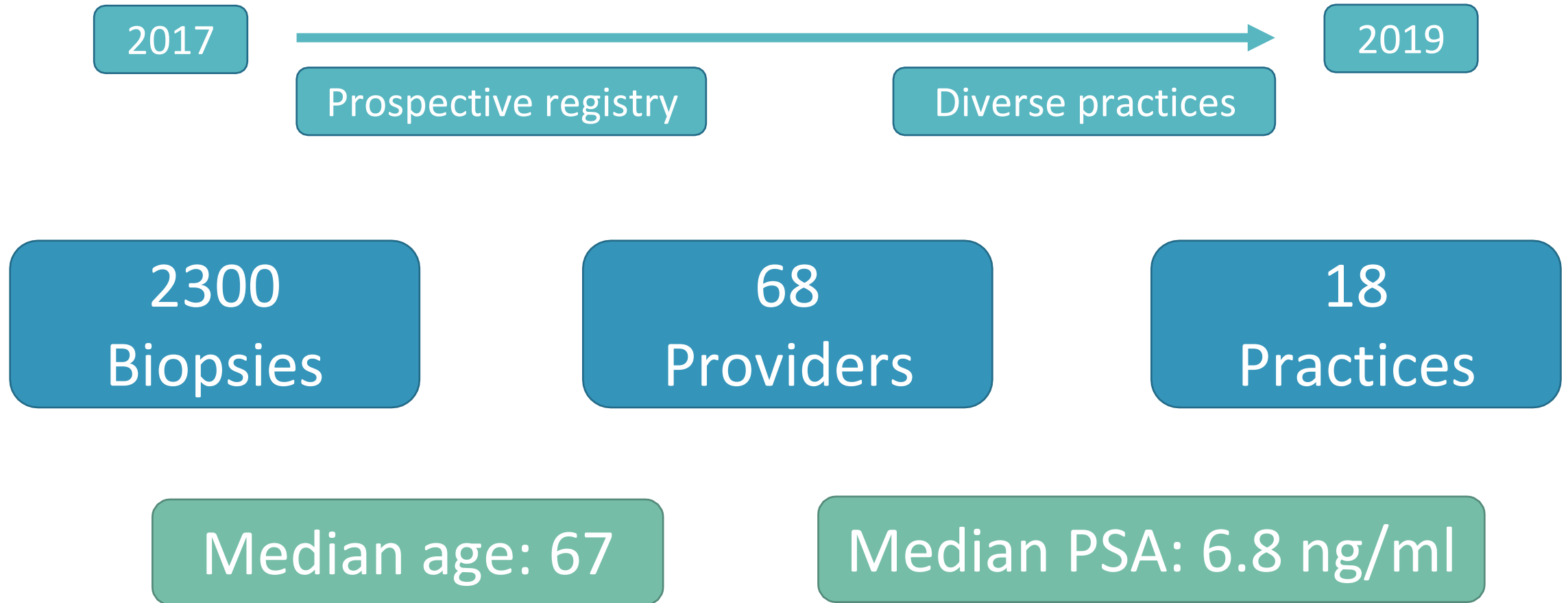


12 QI Initiatives

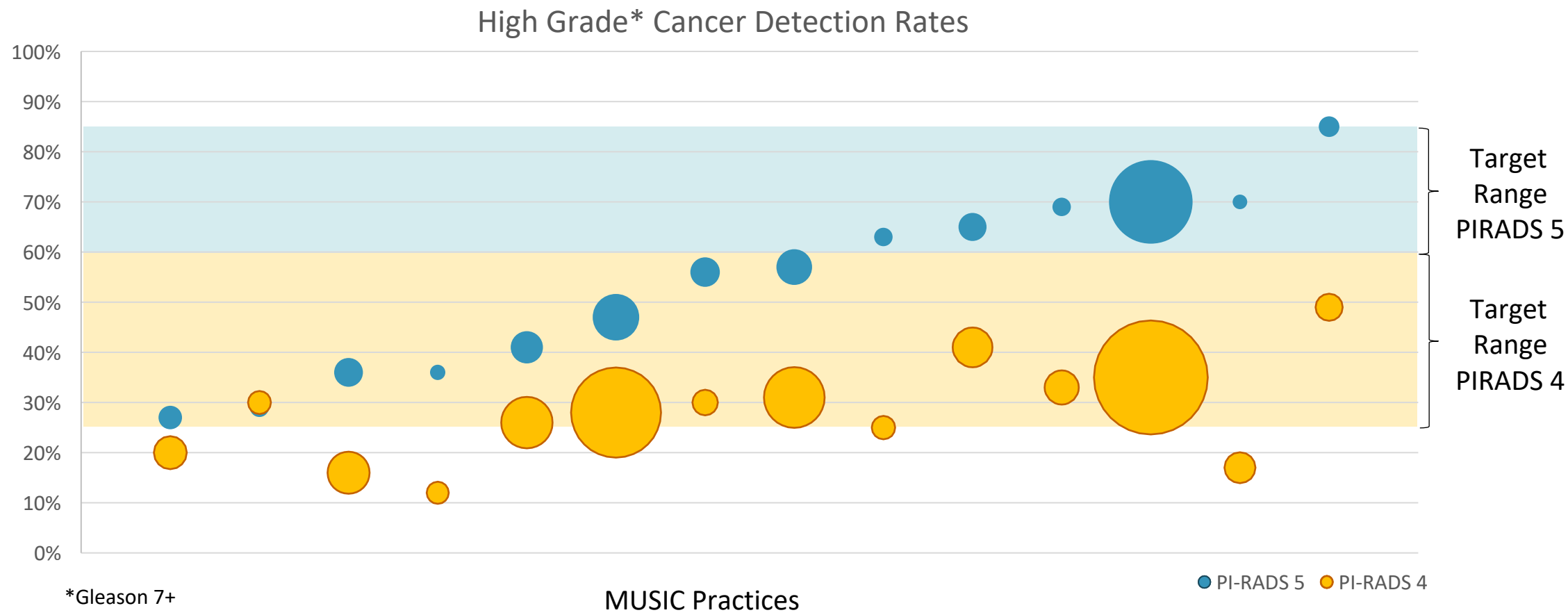
Materials and Methods



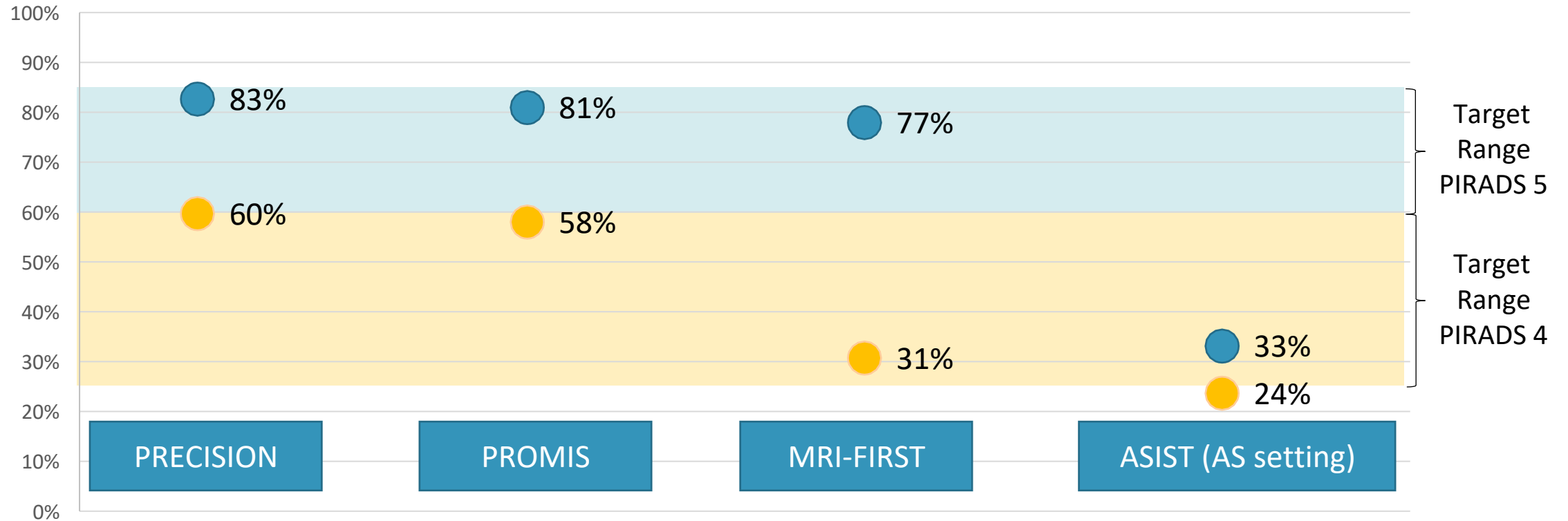
Results



HG CDR in PIRADS 4 and 5 within MUSIC registry



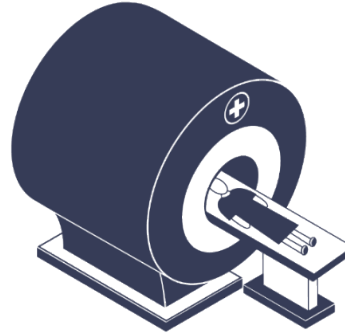
HG CDR in large trials



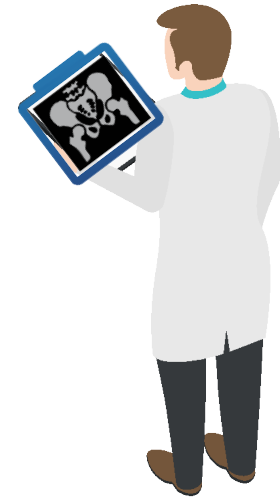
What causes the huge delta?



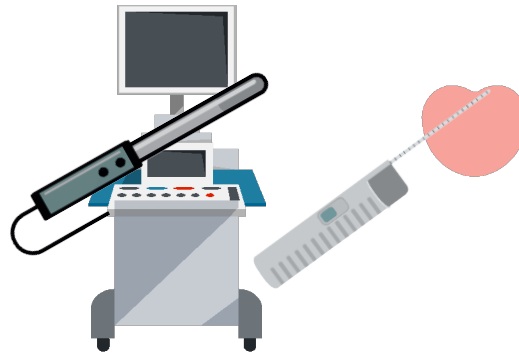
Pathologist



MRI



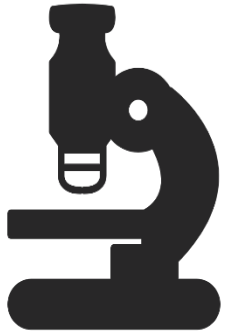
Radiologist



Urologist

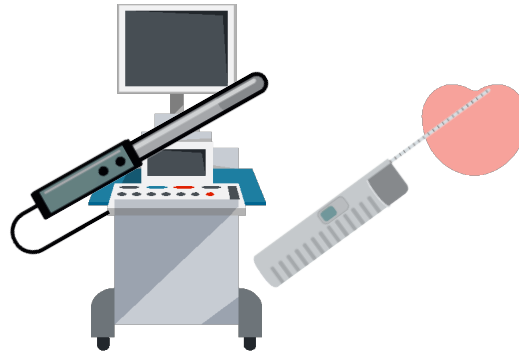
What causes the huge delta?

PIRADS protocol
Image quality

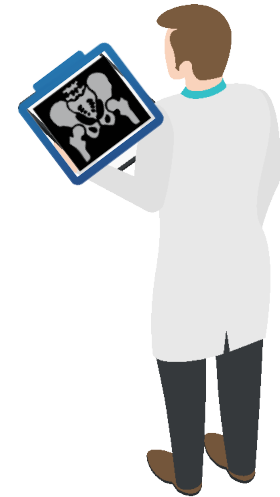


Pathologist

MRI



Urologist



Radiologist

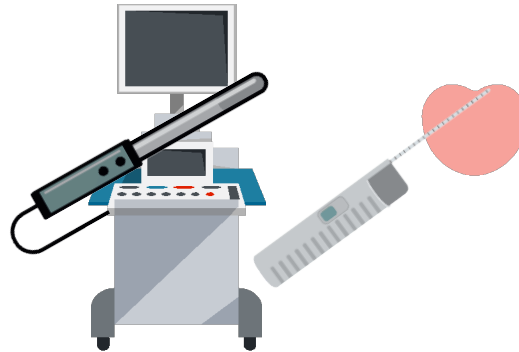
What causes the huge delta?

PIRADS protocol
Image quality



Pathologist

MRI



Urologist

Experience
Template report

Radiologist

Lesion
segmentation

What causes the huge delta?



Pathologist

PIRADS protocol
Image quality

MRI

Experience
Template report

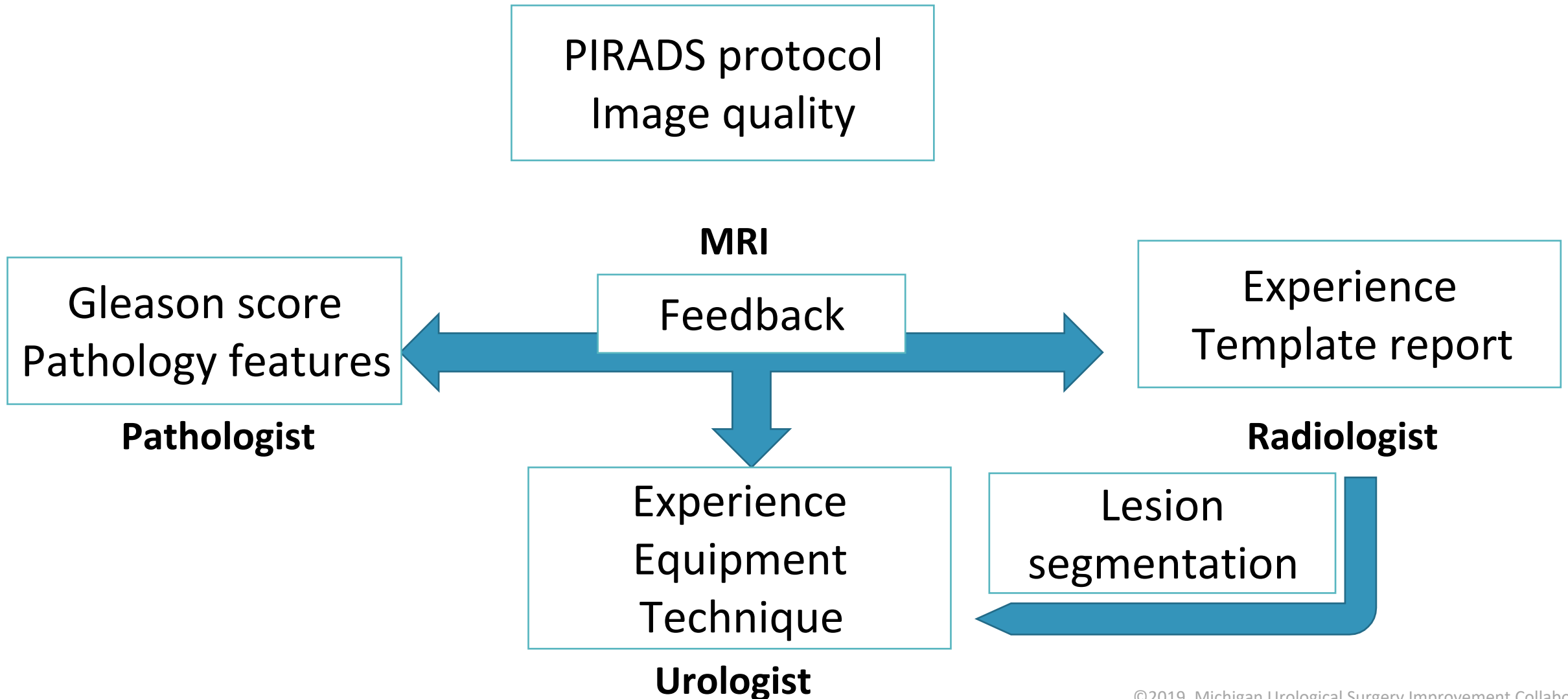
Radiologist

Experience
Equipment
Technique

Urologist

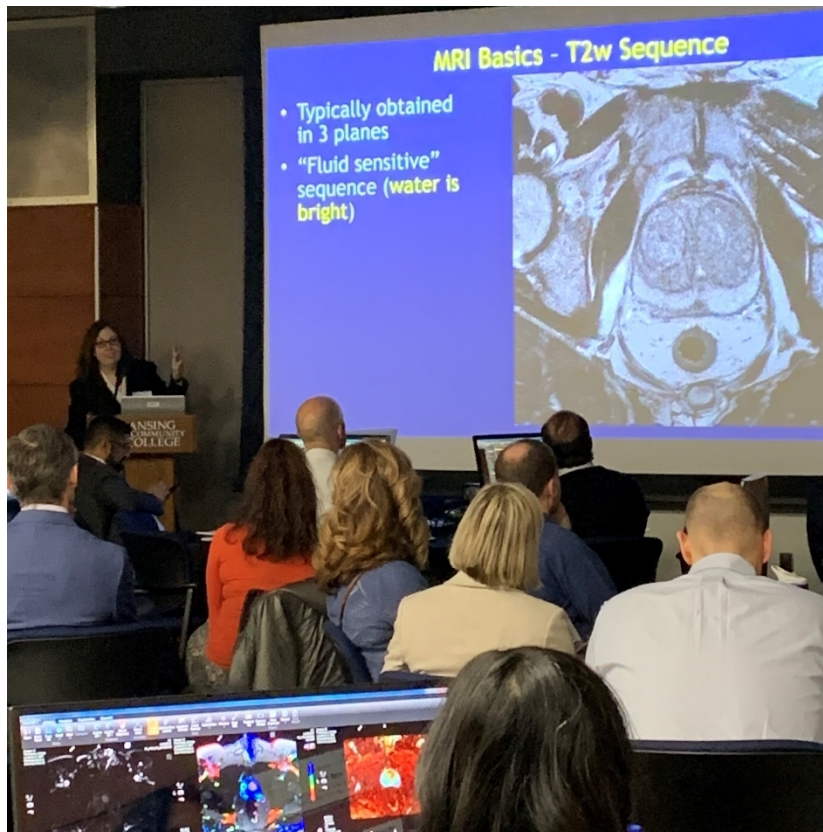
Lesion
segmentation

What causes the huge delta?

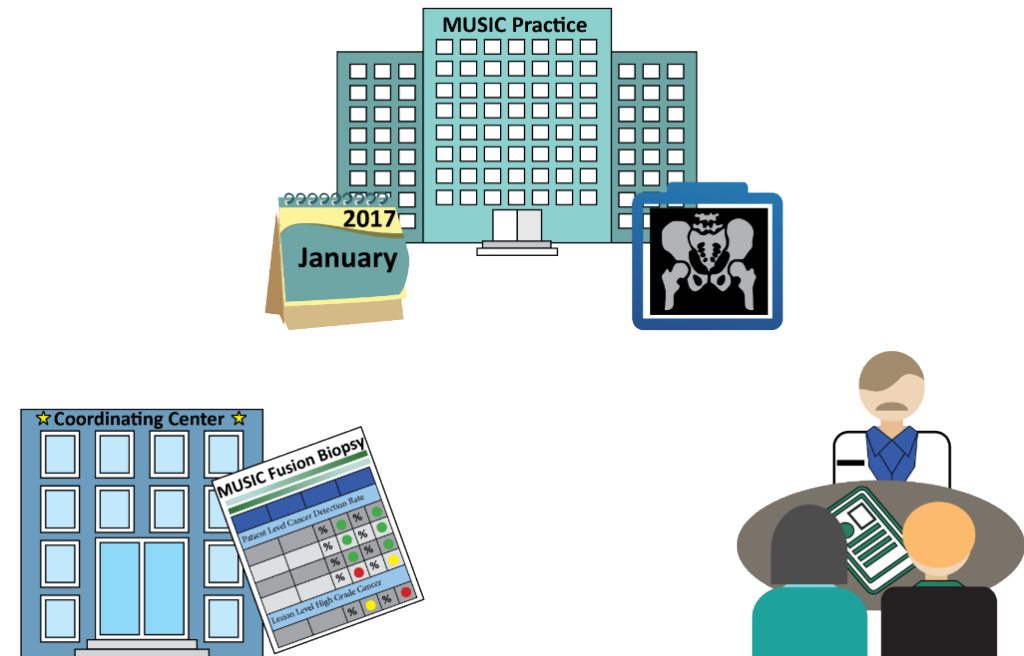


Quality improvement activities

Workshop



Multi-D review



Conclusions

- Substantial practice-level variation exist
- Multi-factor result:
 - MRI acquisition, interpretation
 - Biopsy technique, equipment
 - Multidisciplinary communication
- Quality improvement activities requirement



Thank you

- BCBSM Value Partnerships team
 - MUSIC Coordinating Center
 - MUSIC physicians, practice administrators, and data abstractors
 - MUSIC patient advocates
- For questions, please contact:
 - @your Twitter handle
 - @MUSICurology
 - or
 - www.MUSICurology.com