

Lumbar Imaging with Reporting of Epidemiology (LIRE): Top Barrier and Lesson Learned

Acknowledgements

- NIH: UH2 AT007766-01; UH3 AT007766

Disclosures (Jarvik)

- UpToDate
 - Section Editor
- Physiosonix (ultrasound company)
 - Founder/stockholder
- Healthhelp (utilization review)
 - Consultant
- Evidence-Based Neuroimaging Diagnosis and Treatment (Springer)
 - Co-Editor



Outline

- Progress to date
- Top Barrier and Lesson Learned



LIRE (pronounced leer)- From the French verb, “To Read”



EDNA'S DOCTOR FANTASY

There's something I've been meaning to tell you.

You are the healthiest person I've ever seen.

Don't even bother coming back!



Participating Systems

Name	# Primary Care Clinics (Randomized)	# PCPs (Original)	# PCPs (Randomized)	# Patients (Randomized)
Kaiser Perm. N. California	21	1,006	2,349	199,494
Henry Ford Health System, MI	26	230	187	13,300
Kaiser Perm. WA	19	303	365	15,516
Mayo Health Syst	34	269	400	17,979
Total	100	1808	3,301	246,289



Talk Outline

- Progress to date
- Top Barrier and Lesson Learned



Top Barrier

- Msoft Word changing EHR → HER



Top Barrier: Getting EMR Data

- Variation in EMR vendor and architecture
- Obtaining pharmacy data
- Merging/harmonizing data
- Engaging clinically-focused site programmers with research needs
- Low level of commitment from site programmers leading to poor data quality, unresponsiveness and delays
- High turnover of site programmers



Top Lesson Learned: Know Health System EMRs

- Become as familiar as possible with the EMR data you will be collecting at each site to identify problems and inconsistencies across sites and methods for managing these problems and addressing inconsistencies
- Be sure to have involved the RIGHT people who both truly know the capabilities of the technology and the folks who have authority over whatever technological changes are required
- Plan for lots of staff and PI time to meet frequently across the technical groups to ensure good collaborations over time and deal with the inevitable requests and re-request
- Generalizability across sites is limited



Key People

- Katie James, PA-C, MPH- PD
- Brian Bresnahan, PhD- Hlth Econ
- Bryan Comstock, MS- Biostats
- Janna Friedly, MD- Rehab
- Laurie Gold, PhD- Radiology
- Patrick Heagerty, PhD- Biostats
- Larry Kessler, PhD- HSR
- Danielle Lavalley, Pharm D, PhD
- Eric Meier, MS- Biostats
- Nancy Organ, MS- Biostats
- Kari Stephens, PhD- Informatics
- Judy Turner, PhD- Psychol/Psych
- Rick Deyo, MD, MPH- OHSU
- Dan Cherkin, PhD- GHRI
- Karen Sherman, PhD- GHRI
- Heidi Berthoud- GHRI
- Brent Griffiths, MD- HFHS
- Dave Nerenz, PhD- HFHS
- Dave Kallmes, MD- Mayo
- Patrick Luetmer, MD- Mayo
- Andy Avins, MD, MPH- KPNC
- Luisa Hamilton- KPNC

