CMSS Registries Summit 2018
Registry Leadership Forum
ACR National Radiology Data Registry Experience

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NRDR is umbrella for 6 distinct registries
Established in 2008 with 2 databases; latest opened in 2017
Development and operations completely in-house; no software vendor
4,300 facilities; 83 million exams
MIPS 2017 reporting for 3,870 physicians
NRDR Accomplishments

- Quarterly facility/physician quality reports – comparisons to registry aggregated rates;
- “Live” site-level reports for custom reports and outlier case analysis; integrating Tableau
- MIPS Performance portal
- Dozens of publications using NRDR data
- Registry data available to health services researchers with approval
- Data analysis for multiple uses; guidance for modifying practice policy and development of benchmarks for QI
- Commercialization of data not really viable
Current Challenges

- Minimizing data collection burden
  - Myriad of radiology practice models; multiple systems, sites, software vendors and technology
- Data accuracy/completeness
  - Integrating imaging/clinical data at site or w/in registry from disparate systems within/out of institution
  - Manual entry of EHR data to radiology system – burden, inaccuracies
- Outcome data incompleteness
- Hurdles:
  - Institution/system IT support
  - Conflicting priorities for hospital and physician group, dependency of physicians on hospital for data access
  - Security
Integrating Innovation

- Continue efforts to link to multiple data sources for registry data elements
- Radiology reports rich source of data on quality; not easily accessible in automated way
- Build on use of structured templates (vs use of NLP) with easier availability at point of reporting
- Integrate use of ACR reporting and data systems, structured reports in informatics tools, vendor systems
- Further develop HL7 or FHIR capabilities for electronic exchange of data, and participate in development of standards for HL7 and FHIR to support radiology activities

Thanks!