

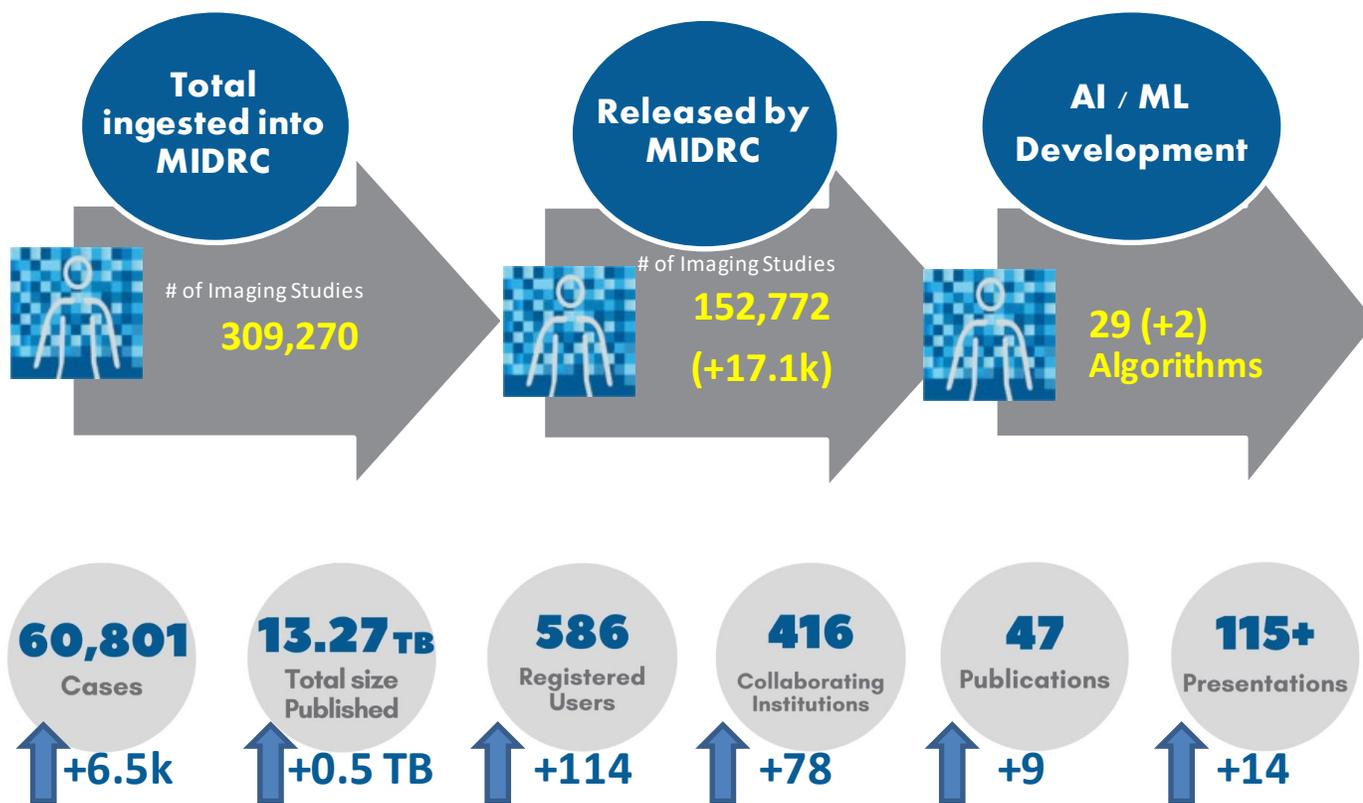
Medical Imaging and Data Resource Center



ACCELERATING DATA RELEASE & UTILIZATION

Real world assessment of AI performance towards accelerating development and clinical deployment

September 2023 v. May 2023



MIDRC can now mint DOIs to support the Data Management and Sharing Policy



MIDRC Expanding Impact through Social Media Outreach

LinkedIn	X	YouTube	MIDRC
Followers	Followers	Videos	Newsletter Subscribers
968 (+319)	181 (+50)	38 (+12)	1399 (+392)

* Data from 8 month change 2/23-9/23

MIDRC is setting the standard for sequestration of imaging data – lowering the barrier to AI validation for FDA submissions

**Sequestration of imaging studies in MIDRC:
Stratified sampling to balance demographic characteristics of patients in a multi-institutional data commons (under review)**

Natalie Baughan^{a,*}, Heather M. Whitney^a, Karen Drukker^a, Berkman Sahiner^b, Tingting Hu^b, Grace Hyun Kim^c, Michael McNitt-Gray^c, Kyle J. Myers^d, Maryellen L. Giger^a

^a University of Chicago, Department of Radiology, Chicago, Illinois 60637, United States

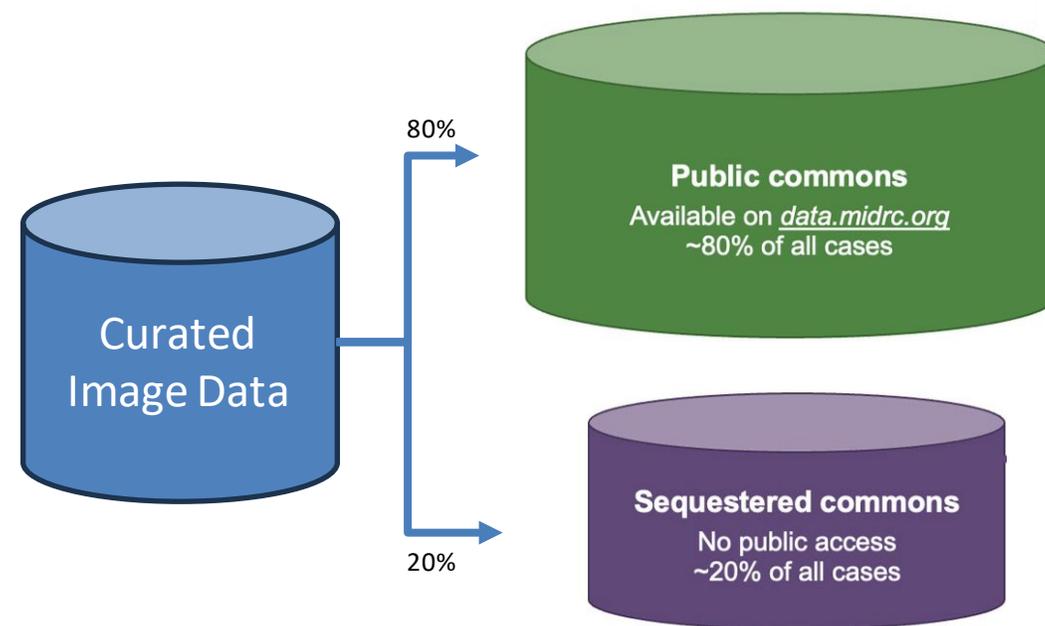
^b US Food and Drug Administration, Bethesda, MD, United States

^c University of California Los Angeles, Los Angeles, CA, United States

^d Puente Solutions, Phoenix, AZ, United States

Paper data is DOI minted to give access to the 5000 MIDRC cases used in the paper

MIDRC's public GitHub hosting the sequestration code



29k+ Imaging Studies



Enabling the path to product with Sequestration and the Validation and Regulatory Working Group (VRWG)

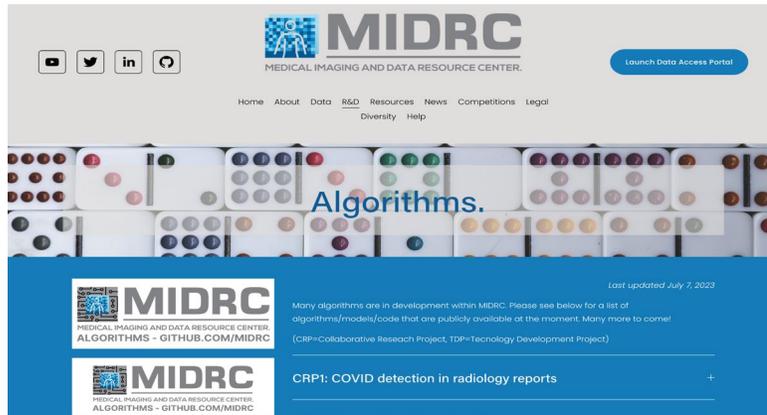
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COMMUNITY ENGAGEMENT IN AI DEVELOPMENT



- 60+ teams registered
- Ultimately, 9 teams submitted final code for testing
- All code will be publicly posted on the MIDRC GitHub
- 2nd place Ran Zhang (U Wisconsin-Madison) will work with the MIDRC Validation and Regulatory Working Group for a mock FDA submission

<https://www.youtube.com/watch?v=uuR4q38Qhdo> – 1.1k views!



- Index of MIDRC algorithms
- Collaborative Research Project and Technology Development Project algorithms
- Challenge results
- github, huggingface, publication links

<https://www.midrc.org/algorithms>