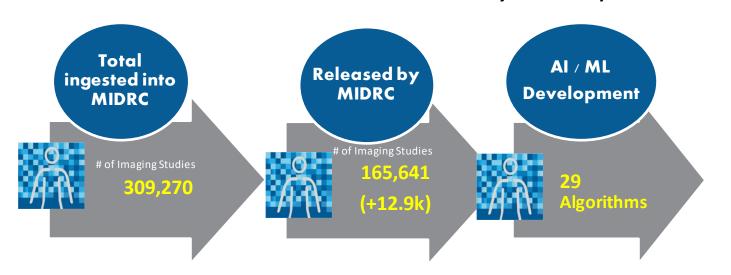
### Medical Imaging and Data Resource Center



### **ACCELERATING DATA RELEASE & UTILIZATION**

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

#### January 2024 v. September 2023





#### **MIDRC**

 Expanding Impact through Social Media Outreach

Linked in	×	<b>►</b> YouTube	MIDRC MEDICAL PAGING AND DATA RESOURCE CENTER
Followers	Followers	Videos	Newsletter Subscribers
1701 (+733)	228 (+47)	40 (+2)	1603 (+204)

 MIDRC momentum growing across national AI ecosystem projects including ARPA-H BDF and NAIRR



## Medical Imaging and Data Resource Center BUILDING THE FABRIC FOR TRUSTWORTHY AI



- ARPA-H Biomedical Data Fabric (BDF) Toolbox is a national infrastructure for data ingestion, curation, data discovery, and visualization to support trustworthy AI in healthcare
- MIDRC funded by ARPA-H as 1 of 5 Phase I BDF Performers
- Extending MIDRC from COVID into cancer
- NIBIB facilitating ARPA-H funding and contributing Deputy Program Manager



https://arpa-h.gov/research-and-funding/programs/arpa-h-bdf-toolbox













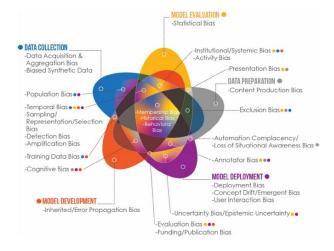


## Medical Imaging and Data Resource Center BUILDING THE FABRIC FOR TRUSTWORTHY AI



- MIDRC activities span BDF Technical Areas (TAs) including
  - Data intake methods and dashboard to support bias and equity measurements and trustworthy AI (TA1)
  - Data harmonization and indexing across repositories (meta-index) TA2
  - Data quality assurance metrics and methods (TA2)
  - Data sequestration (FDA) and task-based sampling (TA2)
  - Knowledge integration between imaging and other data in BDF (TA3)
  - Health disparities and bias metrics (TA3)
- MIDRC tools will be an integral part of the Biomedical Data Fabric Toolbox

#### MIDRC AI/ML Bias Tool



https://www.midrc.org/bias-awareness-tool-1





### Medical Imaging and Data Resource Center **CONTRIBUTING TO NATIONAL AI INFRASTRUCTURE**



- Executive Order to build national research infrastructure to broaden access to resources essential to AI research and development
- The National AI Research Resource (NAIRR) is estimated to be a \$2.6B / 6-year investment in national infrastructure for Al
- NIH participating in NAIRR Pilot Program in 2024 to deploy resources to early NAIRR users
- NIBIB / MIDRC selected as a Pilot Program resource for NAIRR



and Bioengineering



# Medical Imaging and Data Resource Center CONTRIBUTING TO NATIONAL AI INFRASTRUCTURE



- NIH-NAIRR Pilot Programs
  - HPC allocations for NAIRR users
  - Data and model resources from multiple agencies
  - Training and education materials on AI
  - Demonstration programs to highlight interoperability (e.g., MIDRC and N3C)
  - NIBIB involved in early coordination of NAIRR pilots as part of NAIRR interagency working group
  - MIDRC listed as data resource for NAIRR users
- NAIRR Landing page coming soon!

### **NIH NAIRR Pilot Programs**



STRIDES / CloudLab









