

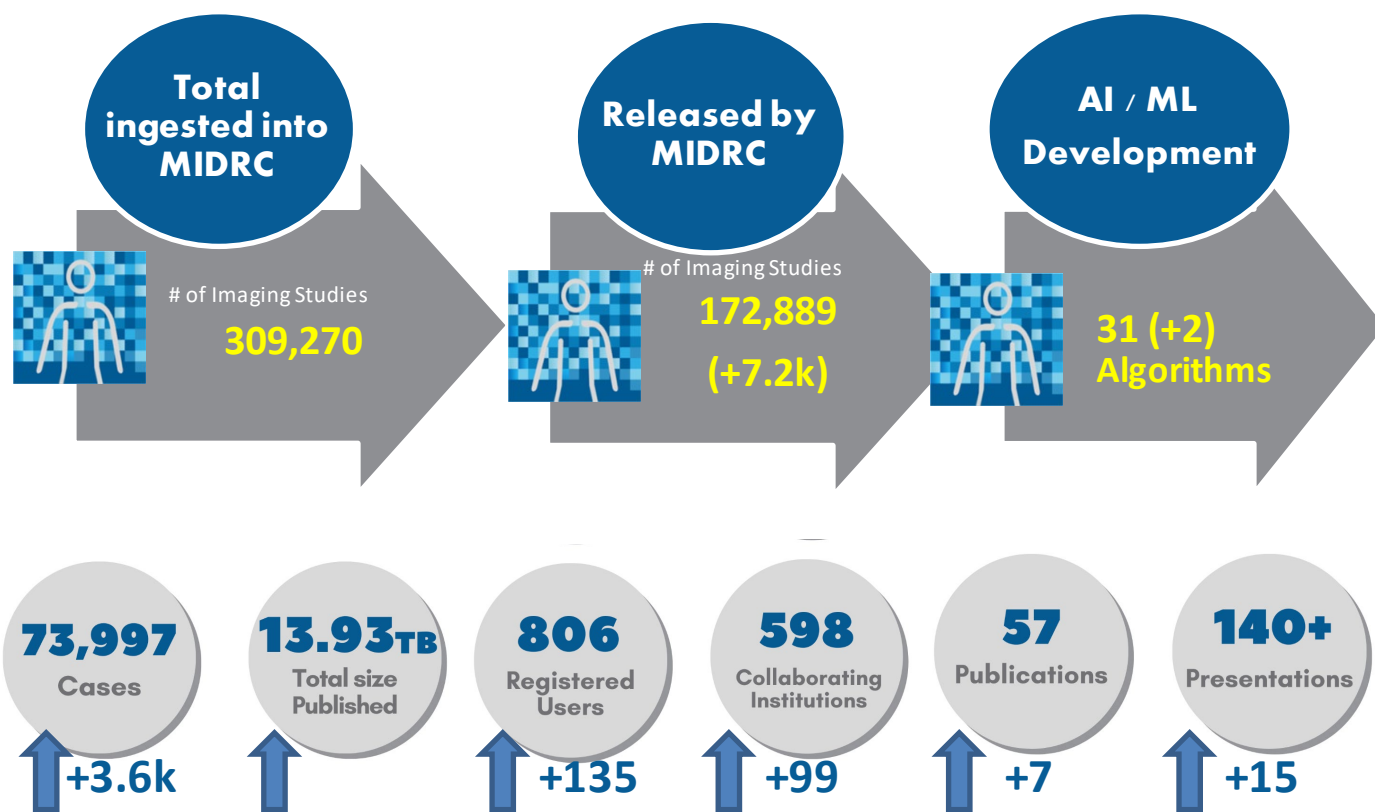
Medical Imaging and Data Resource Center



ACCELERATING DATA RELEASE & UTILIZATION

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

April 2024 v. December 2024



Expanding Impact through Social Media Outreach

LinkedIn	X	YouTube	MIDRC
Followers	Followers	Videos	Newsletter Subscribers
2137 (+606)	257 (+39)	43 (+3)	1752 (+149)

MIDRC wins DataWorks! Distinguished Achievement Award for Sharable Curated, Diverse Medical Images at Scale



Medical Imaging and Data Resource Center

BUILDING THE FABRIC FOR TRUSTWORTHY AI



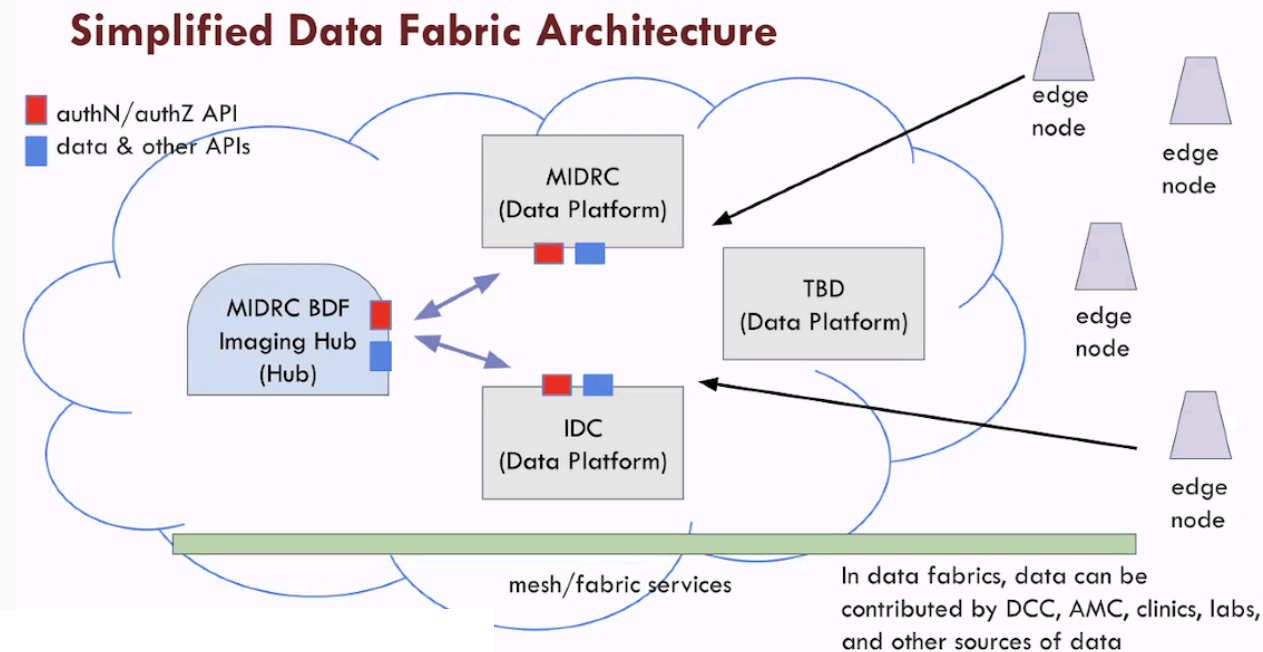
MIDRC BDF projects approved 12/15/2023 with 4, 12, 18-month deliverables – 4-month deliverables on track for completion



Highlights include

- Meta-index including MIDRC, IDC in MIDRC BDF Imaging Hub
- MIDRC Diversity Calculator for comparing data sets with US Census, CDC COVID data for population representation
- Bias Awareness Tool on midrc.org now includes oncology examples
- MIDRC medical text de-identification tool performs better or on-par with published algorithms
- Indexing schema and data protocol complete for federated learning for edge nodes

Simplified Data Fabric Architecture



Medical Imaging and Data Resource Center

BUILDING THE FABRIC FOR TRUSTWORTHY AI



The screenshot displays the MIDRC BDF Imaging Hub interface. On the left, there are filter panels for Gender, Modality, Body Part Examined, Primary Site, and Disease Type. The main area features three pie charts: Gender (showing Female, Male, Not Reported, and No Data), Primary Site (showing Lung, Thyroid, Rectum, Esophagus, Stomach, Extremities, Abdomen, Cervix, Liver, Marrow, Blood, Pancreas, Brain, Kidney, and Chest), and Platform (showing MIDRC and IDC). Below the charts is a table with columns: Study ID, Series Description, Body Part Examined, Primary Site, Disease Type, Platform, and Series Images. A red oval highlights the 'Platform' column in the table, which lists 'MIDRC' and 'IDC' for various entries.

Study ID	Series Description	Body Part Examined	Primary Site	Disease Type	Platform	Series Images
1.3.6.1.4.1.5962.991.3492129840.282517718.1618866294295.11039.0	Lt Oblique		Lung	COVID-19	MIDRC	1.3.6.1.4.1.5962.991.3492129840.282517718.1618866294295.11044.0
1.2.826.0.1.3680043.10.474.302028.3515589	CHEST AP	CHEST	Lung	COVID-19	MIDRC	1.2.826.0.1.3680043.10.474.302028.3515590
1.2.840.113654.2.55130365455404576899581365760834249292086	1,OP_L,PH,MX8000,unkn,500,na,90,na,1,na	CHEST	Chest	Lung Cancer	IDC	1.2.840.113654.2.551911948713918603757143555909964101882
1.2.826.0.1.3680043.10.474.419639.231365380036665498793229367671	AP	CHEST	Lung	COVID-19	MIDRC	1.2.826.0.1.3680043.10.474.419639.20109560333733605154.5716333322
1.2.826.0.1.3680043.10.474.419639.252722899387204254918926532863	AP	CHEST	Lung	COVID-19	MIDRC	1.2.826.0.1.3680043.10.474.419639.327578124386335684139038919148
1.3.6.1.4.1.14519.5.2.17009.9004.141667526694062208003235659073	2,OPA,PH,MX8000,B,330,3,2,120,75,50,1,5	CHEST	Chest	Lung Cancer	IDC	1.3.6.1.4.1.14519.5.2.17009.9004.181840391745272378583530147659
1.3.6.1.4.1.14519.5.2.17009.9004.632761388322768132132827001670	0,OPA,PH,MX8000,B,290,1,3,120,75,50,1,5	CHEST	Chest	Lung Cancer	IDC	1.3.6.1.4.1.14519.5.2.17009.9004.268669058051581271873819639956
1.2.826.0.1.3680043.10.474.514382.1060723	AP	PORT CHEST	Lung	COVID-19	MIDRC	1.2.826.0.1.3680043.10.474.514382.1060724
2.16.840.1.114274.1818.5319915143876988819116866891192877575046		CHEST	Lung	COVID-19	MIDRC	2.16.840.1.114274.1818.54473854900710943946115773887361125530
2.16.840.1.114274.1818.466984298836636189913812104735035686321	CXR AP GRID		Lung	COVID-19	MIDRC	2.16.840.1.114274.1818.46448123002975627297973802698013579195
1.2.826.0.1.3680043.10.474.419639.160867972965408699839696790062	AP	CHEST	Lung	COVID-19	MIDRC	1.2.826.0.1.3680043.10.474.419639.207109870325794193159871782058

MIDRC BDF Imaging Hub

Indexing Data Across MIDRC and IDC (NCI Imaging Data Commons)!

732k+ Imaging Series Indexed

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A VISION FOR THE FUTURE OF MIDRC



MIDRC Workshop and Strategy Session – 4/26/2024

40+ in-person attendees, 180+ online from 20 countries!



MIDRC Leadership and NIBIB MIDRC Team

Morning session (open to the public) – overview of MIDRC status, engagements in ARPA-H Biomedical Data Fabric Toolbox, National AI Research Resource

Afternoon session (PIs and NIBIB Team only) – kickoff of MIDRC strategy and sustainability planning for next 3-5 years



MIDRC Strategy Development

[MIDRC Media - YouTube](#)

