MIDRC Team is Experienced With...

- Management and curation of DICOM/clinical data through clinical trials, registries and data science challenges.
- De-identification of PHI and HIPAA regs.
- Secure transfer of large volumes of medical image data.
- Securing appropriate permissions with leadership at donating sites.
  - IRB
  - Compliance, privacy, regulatory officers
  - Preparing appropriate documentation
    - Data Use Agreements
    - Data Sharing Agreements
What is the Pathway to Contribution?

Getting Started: How do I get started?

Regulatory & Admin: What are the regulatory and legal requirements?

Data: What Imaging and other Data are Needed?

Submission Process: How do I submit cases?

Data Processing: How is data de-identified and processed?

Data Access: When is the data made accessible?

Support: How does the MIDRC team support this process?
What is the Pathway to Contribution?

Getting Started

- Attend Town Hall (you’re already here!)
- Sign up through MIDRC portal (https://www.midrc.org/donate)
  - Tell us about yourself

Regulatory & Admin

- Identify a champion for the project (if it’s not already you)
- Identify key personal at your organization (varies by site)
  - Compliance/privacy officer
  - Institutional review board (IRB)
  - Department leadership
  - IT leadership

Data

Submission Process

Data Processing

Data Access

Support

The MIDRC team is here to help!
What is the Pathway to Contribution?

• Work with a MIDRC Liaison
• Standard Data Transfer Agreements
• MIDRC guides sites through:
  ✓ Obtaining IRB determination.
  ✓ Obtaining Privacy Office Approval
  ✓ Executing data contribution agreements

Sites can work on technical set-up and data identification and extraction alongside legal and regulatory steps.

The MIDRC team is here to help!
What is the Pathway to Contribution?

Getting Started  Regulatory & Admin  Data  Submission Process  Data Processing  Data Access  Support

- MIDRC CORE
- Imaging (DICOM)
- Demographic
  - Sex at birth
  - Age
  - Ethnicity
  - Race
  - …
- Test Results
  - COVID-19
  - Test Results
  - Test type

- MIDRC FULL
- N3C - Clinical
- TCIA - Imaging
- Clinical (EMR)
  - Symptoms
  - Medical History
  - Drugs
  - …
- Socioeconomic
  - Wealth

The MIDRC team is here to help!
What is the Pathway to Contribution?

The MIDRC team is here to help!

- MIDRC supports sites in identifying the most efficient approach to extracting clinical and image data from their local systems.
- Flexibility in approach to accommodate site needs and minimize site burden.
- Mature technologies to facilitate the process.

Getting Started → Regulatory & Admin → Data → Submission Process → Data Processing → Data Access → Support

The MIDRC team is here to help!
What is the Pathway to Contribution?

Multiple Pathways for Contribution

The MIDRC team is here to help!
What is the Pathway to Contribution?

Getting Started  →  Regulatory & Admin →  Data →  Submission Process →  Data Processing →  Data Access →  Support

• HIPAA-Secure for LDS
• Quality Assurance
• Safe Harbor
• De-identification
• Data Harmonization
• Site access to their data set for review and analysis

Data.midrc.org

The MIDRC team is here to help!
What is the Pathway to Contribution?

RICORD COVID-19 Imaging Data Collection Pathway

COVID DATA AGGREGATION
- Data sharing agreement form
- Imaging Data with relevant clinical information retrieved per provided criteria

DEIDENTIFICATION
- Option includes RSNA toolkit (CTP)
- Other methods (following guidance with local institutional policies)

DATA TRANSFER
- Secure transfer of deidentifed data to RSNA
- Three options available with backup support and guidance

ANNOTATION AND CURATION
- Radiologists led by thoracic specialists for annotation and segmentation
- Additional curation to ensure distribution across sites/regions

USER ACCESS
- User data use agreement and registration
- Data downloaded available for research and education purposes

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What is the Pathway to Contribution?

Getting Started  Regulatory & Admin  Data  Submission Process  Data Processing  Data Access  Support

Data Harmonization
• MIDRC accepts DICOM images and clinical data submitted in various formats
• Data is mapped to standard expressions.
• MIDRC ensures data integrity through harmonized data quality and acquisition processes.

Data De-identification
• Technology tools installed on-site will aid in de-identification of data prior to leaving institution (Limited Data Set or Fully De-ID)
• Data is further reviewed after submission and taken through an extensive QC process to ensure that data is safe to share
• Only fully deidentified data will be shared in the public MIDRC data commons

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What is the Pathway to Contribution?

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