Medical Image De-Identification Workshop
(virtual)

Keyvan Farahani, PhD

farahani@nih.gov

Context of the workshop

Many research institutions facilitate, or otherwise require, public sharing of medical images to generate knowledge and gain insights to human health and develop innovative solutions to reduce, or eliminate, disease burden.

However, patient privacy ethics & laws require that medical images are deidentified before they are disseminated through public repositories (e.g., Imaging Data Commons)

In 2020 we at CBIIT/NCI began to engage with the research community on the topic of medical image de-identification, by considering, and promoting, technological solutions. In 2021 we created a task group to provide recommendations for best practices to minimize the risks while preserving the research value of medical images.

Goal of the MIDI Workshop

Convene thought leaders, SMEs, technology developers and members of the greater biomedical research community to highlight and learn about <u>best practices</u> and <u>innovative technologies</u> in medical image de-identification, <u>discuss questions</u>, and <u>identify challenges</u>.

MIDI Scope & Definition

Scope: Radiology and pathology images, with primary emphasis on DICOM radiology

De-Identification of medical images of human subjects and biospecimens, such that re-identification risk of ethical, moral, and legal concern is sufficiently reduced to allow unrestricted public sharing for any purpose, regardless of the jurisdiction of the source and distribution sites.

Ref: MIDI Task Group Report **arXiv:2303.10473**

Disclosures

- It's NOT the goal of this workshop to solicit or acquire services or products.

- Discussions of commercial products should not be misconstrued as endorsements by NCI/NIH.

Workshop Program

Day 1: Monday, May 22

1. TG report on recommendations and BP
2. Conventional methods
3. International
4. Industry

Day 2: Tuesday, May 23

5. Digital pathology
6. Defacing
7. AI
8. NCI MIDI pipeline and datasets

Acknowledgments

- CBIIT/NCI
- MIDI Task Group
- MIDI Workshop Planning & Program Committees

farahani@nih.gov

NATIONAL
CANCER
INSTITUTE