

Supplementary Information

Supplementary Data 1: Extracted data from included studies

This file contains three tables. All three tables contain the Model Name column, which serves as an identifier.

Table S1: Per-paper CLAIM checklist scores and metadata

Along with the URL (of the paper) and main paper details (Model Name, Year, Venue Type and Name), it contains columns giving scores of 0, 1, or N/A for each item in Checklist for Artificial Intelligence in Medical Imaging (CLAIM): 2024 Update.

Table S2: Detailed technical characteristics and responsible AI reporting for each model

Includes the following columns: Year (of publication), Physician (presence of a physician co-author), Venue Type (peer-reviewed or preprint), Venue Name, Modalities_Cleaned and Learning_Paradigm_Cleaned (model design characteristics), Broad/Specific Vision_Encoder and Broad/Specific Language_Encoder (architecture details at general and specific levels), CodeModelDataset_Availability (public sharing of research artifacts), and Explainability, Robustness, and Fairness (whether each responsible AI topic was discussed).

Table S3: Downstream tasks and Adaptation Methods

Includes the following columns: Task Name, Adaptation method (of the foundation when applied to tasks). Note that each model can occur multiple times in this table.