2021 RSNA COVID-19 Detection Challenge
Dataset Description

Imaging Modality	X-ray
Annotation Pattern	Exam/image level into 4 categories: ● Negative ● Typical for COVID-19 ● Indeterminate for COVID-19 ● Atypical for COVID-19 2D ROI bounding box per image for airspace opacities only
Annotation methodology and structure	Manual annotations Annotation software - md.ai Annotation output ● Spreadsheet (text) ● Bounding boxes as Json from md.ai
Structure nomenclature and standards	● MIDRC ● TCIA (requires peer-reviewed publication) ● UMLS for BIMCV dataset
Data use agreement/licensing	Non-commercial purpose
Imaging file and structure set format	DICOM - metadata/tags (based on individual task) ● RICORD portion used DICOM Anonymizer
Image Characteristics	Resolution ● Full resolution (exact resolution is not specified for RICORD) ● High resolution for BIMCV Pre-processing ● None noted, but not stated Burned-in PHI ● Data was anonymized by both contributing organizations
Timing (in case of serial imaging)	This is specified in RICORD data tags, but not addressed otherwise
Labeler demographics	● 9 thoracic and 13 non-thoracic ● 19 practicing radiologists, 3 senior residents ● Extract individual ● Agreement/disagreement - given for practice cases, otherwise no apparent overlap ● Scope of annotation - multi-institutional
Responsibilities quality, safety, privacy	Predominantly covered by submitting institutions
Monetization	Non-commercial license

| Reference | Lakhani P, et al. The 2021 SIIM-FISABIO-RSNA Machine Learning COVID-19 Challenge: Annotation and Standard Exam Classification of COVID-19 Chest Radiographs.
https://osf.io/532ek/ |