

NLST Chest X-Ray Screening: Data Dictionary

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Document Summary

Property	Value
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NLST Chest X-Ray Screening: Data Dictionary

Section 1: Study

Variable	Label	Description	Format Text
dataset_version	Date Stamp for Datasets		Char, 23
pid	Participant Identifier	A unique identifier given to each participant. For LSS participants, pid has a format of 1xx,xxx, while for ACRIN participants, pid has a format of 2xx,xxx.	Numeric

Section 2: Chest X-Ray Screening

Variable	Label	Description	Format Text
attempts	Number of screening attempts on last screening visit this year	Number of screening attempts on the last screening visit for this study year.	Numeric .M="Missing"
reader_id	Radiologist ID	An ID number indicating which radiologist read the screen. These are not the ID numbers used at the screening centers, but instead have been masked for anonymity.	Numeric
study_yr	Study Year of Screen		0="T0" 1="T1" 2="T2"
techpara_expval	Technical parameters: Exposure value		Numeric .M="Missing"
techpara_kvp	Technical parameters: kVp		Numeric .M="Missing"
techpara_ma	Technical parameters: mA		Numeric .M="Missing"
techpara_mas	Technical parameters: mAs		Numeric .M="Missing"
techpara_time	Technical parameters: Time in milliseconds		Numeric .M="Missing"
visits	Number of screening visits	Number of visits for screening in this study year.	Numeric
xry_comp_days1-5	Days from randomization to date of comparison image	Corresponds to image sources in xry_compimage1-5.	Numeric .M="Missing" .N="Not applicable"
xry_compimage1-5	Source of Comparison Image	Source of the comparison image that was compared to the screen. Values 1-3 indicate previous NLST screening images, while values 4-7 indicate images from non-NLST scans.	0="No Image Available" 1="T0" 2="T1" 3="T2 Inadequate" 4="CT" 5="CXR" 6="MRI" 7="PET"
xrydxqual	Overall diagnostic quality of CXR examination		.M="Missing" 1="Diagnostic CXR" 2="Limited CXR, but interpretable" 3="Non-diagnostic CXR exam" 4="No Image Available"
xrydxqual_algorithm	Reason for limited / non-diagnostic CXR: Incorrect processing algorithm		.N="Not Applicable" 0="No" 1="Yes"

Variable	Label	Description	Format Text
xrydxqual_artifact	Reason for limited / non-diagnostic CXR: Artifact obscures anatomy		.N="Not Applicable" 0="No" 1="Yes"
xrydxqual_inadeqimg	Reason for limited / non-diagnostic CXR: Lungs incompletely imaged		.N="Not Applicable" 0="No" 1="Yes"
xrydxqual_lungvol	Reason for limited / non-diagnostic CXR: Low lung volumes		.N="Not Applicable" 0="No" 1="Yes"
xrydxqual_motion	Reason for limited / non-diagnostic CXR: Motion degradation		.N="Not Applicable" 0="No" 1="Yes"
xrydxqual_noise	Reason for limited / non-diagnostic CXR: High image noise		.N="Not Applicable" 0="No" 1="Yes"
xrydxqual_other	Reason for limited / non-diagnostic CXR: Other (specify)		.N="Not Applicable" 0="No" 1="Yes"
xrydxqual_position	Reason for limited / non-diagnostic CXR: Poor positioning		.N="Not Applicable" 0="No" 1="Yes"
xrydxqual_techpara	Reason for limited / non-diagnostic CXR: Incorrect exposure or other technical parameter		.N="Not Applicable" 0="No" 1="Yes"
xrysystem	CXR system used	The system used for the chest X-ray screen.	.M="Missing" 1="Screen-Film (SF)" 2="Computed Radiography (CR)" 3="Direct Digital Radiography (DR)" 4="Thoravision (ACRIN only)"

Section 3: Recommended Follow-up

Variable	Label	Description	Format Text
rec_biopsy	Recommend: Biopsy (percutaneous, thorascopic, open, etc.)	Did the radiologist recommend a biopsy as follow-up to the screen?	0="No" 1="Yes"
rec_chest_fluorosc opy	Recommend: Chest fluoroscopy to confirm lung abn.	Did the radiologist recommend chest fluoroscopy to confirm the abnormality and location as follow-up to the screen?	0="No" 1="Yes"
rec_compare_img	Recommend: Comparison with historical images	Did the radiologist recommend a comparison with historical images as follow-up to the screen?	0="No" 1="Yes"
rec_ct_densitometr y	Recommend: Contrast-enhanced CT nodule densitometry	Did the radiologist recommend contrast-enhanced CT nodule densitometry as follow-up to the screen?	0="No" 1="Yes"
rec_cxr_3mo	Recommend: Follow-up chest X-ray in three months	Did the radiologist recommend a follow-up chest X-ray in 3 months as follow-up to the screen?	0="No" 1="Yes"
rec_cxr_confirm	Recommend: Chest X-ray to confirm lung abn.	Did the radiologist recommend a chest X-ray, with or without additional views to confirm the abnormality and location, as follow-up to the screen?	0="No" 1="Yes"
rec_cxr_low_kvp_ca lcif	Recommend: Low kVp chest X-ray to check for calcification of abn.	Did the radiologist recommend a low kVp chest X-ray to determine abnormality calcification as follow-up to the screen?	0="No" 1="Yes"
rec_diag_ct	Recommend: Diagnostic chest CT	Did the radiologist recommend a dianostic chest CT as follow-up to the screen?	0="No" 1="Yes"
rec_fdg_pet	Recommend: FDG-PET	Did the radiologist recommend a FDG-PET scan as follow-up to the screen?	0="No" 1="Yes"
rec_focusarea	Recommended focus area for LDCT	If the radiologist recommended a low dose CT as follow-up to the screen, what was the recommended area of focus? This is available for LSS only, and became available starting on 10/9/2003.	0="Not specified or not applicable" 1="Limited" 2="Entire Chest"

Variable	Label	Description	Format Text
rec_ldct	Recommend: Low-dose helical CT of chest	Did the radiologist recommend a low dose CT with NLST parameters as follow-up to the screen? This was added on 6/17/2004 for ACRIN and on 10/9/2003 for LSS.	0="No" 1="Yes"
rec_no_followup	Recommend: No diagnostic intervention necessary	Did the radiologist recommend no follow-up to the screen?	0="No" 1="Yes"
rec_other	Recommend: Other (specify)	Did the radiologist recommend other follow-up to the screen?	0="No" 1="Yes"
rec_tech_99m	Recommend: Tech 99m depreotide scintigraphy	Did the radiologist recommend tech 99m depreotide scintigraphy as follow-up to the screen?	0="No" 1="Yes"
rec_thinct	Recommend: Thin section CT of chest	Did the radiologist recommend a thin section CT of the chest as follow-up to the screen? This was only available for LSS, and only on an early form version.	0="No" 1="Yes"