

# NLST Chest X-Ray Screening: Data Dictionary

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## Document Summary

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# NLST Chest X-Ray Screening: Data Dictionary

## Section 1: Study

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Variable	Label	Description	Format Text
<b>dataset_version</b>	Date Stamp for Datasets		Char, 23
<b>pid</b>	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
<b>attempts</b>	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"
<b>reader_id</b>	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
<b>study_yr</b>	Study Year of Screen		0="T0" 1="T1" 2="T2"
<b>techpara_expval</b>	Technical parameters: Exposure value		Numeric .M="Missing"
<b>techpara_kvp</b>	Technical parameters: kVp		Numeric .M="Missing"
<b>techpara_ma</b>	Technical parameters: mA		Numeric .M="Missing"
<b>techpara_mas</b>	Technical parameters: mAs		Numeric .M="Missing"
<b>techpara_time</b>	Technical parameters: Time in milliseconds		Numeric .M="Missing"
<b>visits</b>	Number of screening visits	Number of visits for screening in this study year.	Numeric
<b>xry_comp_days1-5</b>	Days from randomization to date of comparison image	Corresponds to image sources in xry_compimage1-5.	Numeric .M="Missing" .N="Not applicable"
<b>xry_compimage1-5</b>	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"
<b>xrydxqual</b>	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"
<b>xrydxqual_algorithm</b>	Reason for limited / non-diagnostic CXR: Incorrect processing algorithm		.N="Not Applicable" 0="No" 1="Yes"

Variable	Label	Description	Format Text
<b>xrydxqual_artifact</b>	Reason for limited / non-diagnostic CXR: Artifact obscures anatomy		.N="Not Applicable" 0="No" 1="Yes"
<b>xrydxqual_inadeqim g</b>	Reason for limited / non-diagnostic CXR: Lungs incompletely imaged		.N="Not Applicable" 0="No" 1="Yes"
<b>xrydxqual_lungvol</b>	Reason for limited / non-diagnostic CXR: Low lung volumes		.N="Not Applicable" 0="No" 1="Yes"
<b>xrydxqual_motion</b>	Reason for limited / non-diagnostic CXR: Motion degradation		.N="Not Applicable" 0="No" 1="Yes"
<b>xrydxqual_noise</b>	Reason for limited / non-diagnostic CXR: High image noise		.N="Not Applicable" 0="No" 1="Yes"
<b>xrydxqual_other</b>	Reason for limited / non-diagnostic CXR: Other (specify)		.N="Not Applicable" 0="No" 1="Yes"
<b>xrydxqual_position</b>	Reason for limited / non-diagnostic CXR: Poor positioning		.N="Not Applicable" 0="No" 1="Yes"
<b>xrydxqual_techpara</b>	Reason for limited / non-diagnostic CXR: Incorrect exposure or other technical parameter		.N="Not Applicable" 0="No" 1="Yes"
<b>xrysystem</b>	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
<b>rec_biopsy</b>	Recommend: Biopsy (percutaneous, thoracoscopic, open, etc.)	Did the radiologist recommend a biopsy as follow-up to the screen?	0="No" 1="Yes"
<b>rec_chest_fluoroscopy</b>	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"
<b>rec_compare_img</b>	Recommend: Comparison with historical images	Did the radiologist recommend a comparison with historical images as follow-up to the screen?	0="No" 1="Yes"
<b>rec_ct_densitometry</b>	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"
<b>rec_cxr_3mo</b>	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"
<b>rec_cxr_confirm</b>	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"
<b>rec_cxr_low_kvp_calcif</b>	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"
<b>rec_diag_ct</b>	Recommend: Diagnostic chest CT	Did the radiologist recommend a dianostic chest CT as follow-up to the screen?	0="No" 1="Yes"
<b>rec_fdg_pet</b>	Recommend: FDG-PET	Did the radiologist recommend a FDG-PET scan as follow-up to the screen?	0="No" 1="Yes"
<b>rec_focusarea</b>	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_idct	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"