NLST Spiral CT Screening: Data Dictionary

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NLST Spiral CT 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: Spiral CT 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"
ct_recon_filter1-4	CT reconstruction algorithm / filter	What CT reconstruction algorithm / filter was used for the screen? These variables come from the data collection forms. They may disagree with data extracted from the CT images' DICOM headers. Header data may be obtained from the NLST CT image collection at TCIA or from ACRIN.	.M="Missing or less than 4 algorithms/filters" 1="GE Bone" 2="GE Standard" 3="GE, other" 4="Phillips D" 5="Phillips C" 6="Phillips, other" 7="Siemens B50F" 8="Siemens B30" 9="Siemens, other" 10="Toshiba FC10" 11="Toshiba FC51" 12="Toshiba, other"
ctdxqual	Overall diagnostic quality of CT examination		.M="Missing" 1="Diagnostic CT" 2="Limited CT, but interpretable" 3="Non-diagnostic CT exam"
ctdxqual_artifact	Reason for limited / non-diagnostic CT: Severe beam hardening artifact		.N="Not Applicable" 0="No" 1="Yes"
ctdxqual_breath	Reason for limited / non-diagnostic CT: Submaximal inspiratory breath-hold		.N="Not Applicable" 0="No" 1="Yes"
ctdxqual_graininess	Reason for limited / non-diagnostic CT: Excessive quantum mottle or graininess		.N="Not Applicable" 0="No" 1="Yes"
ctdxqual_inadeqimg	Reason for limited / non-diagnostic CT: Lungs not completely imaged		.N="Not Applicable" 0="No" 1="Yes"
ctdxqual_motion	Reason for limited / non-diagnostic CT: Motion artifact		.N="Not Applicable" 0="No" 1="Yes"
ctdxqual_other	Reason for limited / non-diagnostic CT: Other (specify)		.N="Not Applicable" 0="No" 1="Yes"
ctdxqual_resp	Reason for limited / non-diagnostic CT: Respiratory misregistration		.N="Not Applicable" 0="No" 1="Yes"
ctdxqual_techpara	Reason for limited / non-diagnostic CT: Incorrect technical parameter(s)		.N="Not Applicable" 0="No" 1="Yes"

Variable	Label	Description	Format Text
image_has	Is there an image available for this screen?		0="No" 1="Yes"
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 .M="Missing"
sct_comp_days1-5	Days from randomization to date of comparison image	Corresponds to image sources in sct_compimage1-5.	Numeric .M="Missing" .N="Not applicable"
sct_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" 4="CT" 5="CXR" 6="MRI" 7="PET"
study_yr	Study Year of Screen		0="T0" 1="T1" 2="T2"
techpara_effmas	Technical parameters: Effective mAs	Technical parameters: Effective mAs This variable comes from the data collection forms. It may disagree with data extracted from the CT images' DICOM headers. Header data may be obtained from the NLST CT image collection at TCIA or from ACRIN.	Numeric .M="Missing"
techpara_fov	Technical parameters: Display FOV in cm	Technical parameters: Display FOV in cm This variable comes from the data collection forms. It may disagree with data extracted from the CT images' DICOM headers. Header data may be obtained from the NLST CT image collection at TCIA or from ACRIN.	Numeric .M="Missing"
techpara_kvp	Technical parameters: kVp	Technical parameters: kVp This variable comes from the data collection forms. It may disagree with data extracted from the CT images' DICOM headers. Header data may be obtained from the NLST CT image collection at TCIA or from ACRIN.	Numeric .M="Missing"

Variable	Label	Description	Format Text
techpara_ma	Technical parameters: mA	Technical parameters: mA This variable comes from the data collection forms. It may disagree with data extracted from the CT images' DICOM headers. Header data may be obtained from the NLST CT image collection at TCIA or from ACRIN.	Numeric .M="Missing"
visits	Number of screening visits	Number of visits for screening in this study year.	Numeric

Section 3: Recommended Follow-up

Variable	Label	Description	Format Text
rec_biopsy	Recommend: Biopsy (percutaneous, thoracoscopic, open, etc.)	Did the radiologist recommend a biopsy 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_continue_nlst_ct	Recommend: Continue NLST screening CT	Did the radiologist recommend continuing NLST CT screening as follow-up to the screen? LSS Only after 6-17-04.	0="No" 1="Yes"
rec_ct_densitometry	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_diag_ct	Recommend: Diagnostic chest CT	Did the radiologist recommend a diagnostic 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"
rec_ld_or_thin_ct_12mo	Recommend: Low-Dose or Thin Section Chest CT in 12 months	Did the radiologist recommend a low dose or thin section CT in 12 months as follow-up to the screen?	0="No" 1="Yes"
rec_ld_or_thin_ct_24mo	Recommend: Low-Dose or Thin Section Chest CT in 24 months	Did the radiologist recommend a low dose or thin section CT in 24 months as follow-up to the screen?	0="No" 1="Yes"
rec_ld_or_thin_ct_3_6mo	Recommend: Low-Dose or Thin Section Chest CT in 3-6 months	Did the radiologist recommend a low dose or thin section CT in 3-6 months as follow-up to the screen?	0="No" 1="Yes"

Variable	Label	Description	Format Text
rec_ld_or_thin_ct_3 mo	Recommend: Low-Dose or Thin Section Chest CT in 3 months	Did the radiologist recommend a low dose or thin section CT in 3 months as follow-up to the screen?	0="No" 1="Yes"
rec_ld_or_thin_ct_6 mo	Recommend: Low-Dose or Thin Section Chest CT in 6 months	Did the radiologist recommend a low dose or thin section CT in 6 months as follow-up to the screen?	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"

Section 4: SCT Image Series

Variable	Label	Description	Format Text
num_axial_series	Number of axial series in a given study year		Numeric
num_image_series	Number of image series in a given study year		Numeric
num_localizer_series	Number of localizer series in a given study year		Numeric