

NLST PARTICIPANT: DATA DICTIONARY

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Document Summary

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NLST Participant: Data Dictionary

Section 1: Study

Variable	Label	Description	Format Text
cen	Institution	A two character code, randomly assigned to each study center, in order to mask the identity of the centers.	Character
dataset_version	Date Stamp for Datasets		Char, 23
elig	Is participant eligible?	Was the participant eligible for the NLST trial? See the entry for "ineligible" for a list of eligibility criteria.	0="Ineligible Participant Randomized" 2="Eligible Participant"
ineligible	Reason for ineligibility	To be eligible, a participant must be 55-74 years of age on the date of randomization, a current smoker or a former smoker who quit smoking within the last 15 years, and have smoked at least 30 pack-years. Participants are ineligible if they do not meet those criteria, or if they meet any of the other exclusion criteria listed as reasons for ineligibility in the format for this variable.	.N="Not ineligible" 1="Age <55 or >74 yrs" 2="Non-smoker or quit > 15 years" 3="Insufficient pack years" 4="CT within 18 months of enrollment" 5="Participant in another cancer screening trial" 6="Participant in another cancer prevention trial" 7="Previous Lung Cancer" 8="Portion of lung removed" 9="Cancer within past 5 years" 10="Physical impairments to screening" 11="Metallic implants" 12="Home oxygen" 13="Unexplained weight loss or Hemoptysis" 14="Recent antibiotics use"
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
rndgroup	Study arm	The study arm to which the participant was randomized. Each participant was randomly assigned to either the spiral CT or X-ray arm. Because X-ray screening has been studied in other trials, the X-ray arm represents the control arm for determining the effectiveness of spiral CT screening.	1="Spiral CT" 2="X-ray"

Variable	Label	Description	Format Text
study	Which study is the participant enrolled on?	The component study to which the participant belonged. The National Lung Screening Trial (NLST) is composed of two component studies conducted by the Lung Screening Study group (LSS) and the American College of Radiology Imaging Network (ACRIN). ACRIN had some centers that collected biomarkers, while others did not.	1="LSS" 2="ACRIN biomarkers" 3="ACRIN no biomarkers"

Section 2: Demographic

Variable	Label	Description	Format Text
age	Age at randomization (in years; whole number)		Numeric
educat	Level of education completed		1="8th grade or less" 2="9th-11th grade" 3="High school graduate/GED" 4="Post high school training,excluding college" 5="Associate degree/ some college" 6="Bachelors Degree" 7="Graduate School" 8="Other" 95="Missing data form- form is not expected to ever be completed" 98="Missing - form was submitted and the answer was left blank" 99="Unknown/ decline to answer"
ethnic	Ethnicity	Is the participant of Hispanic/Latino heritage? Self-reported at entry.	1="Hispanic or Latino" 2="Neither Hispanic nor Latino" 7="Participant refused to answer" 95="Missingdata form - form is not expected to ever be completed" 98="Missing - form was submitted and the answer was left blank" 99="Unknown/ declineto answer"
gender	Gender		1="Male" 2="Female"
height	Height in inches	Height of the participant in inches as self-reported at the start of the trial.	Numeric .M="Missing"
marital	Marital Status	Marital status of the participant at the start of the trial.	.M="Missing" 1="Never married" 2="Married or living as married" 3="Widowed" 4="Separated" 5="Divorced" 7="Participant refused to answer" 9="Not Ascertained"
race	Race		1="White" 2="Black or African-American" 3="Asian" 4="American Indian or Alaskan Native" 5="Native Hawaiian or Other Pacific Islander" 6="More than one race" 7="Participant refused to answer" 95="Missing data form - form isnot expected to ever be completed" 96="Missing - no response" 98="Missing - form was submitted and the answer was left blank" 99="Unknown/decline to answer"

Variable	Label	Description	Format Text
weight	Weight in pounds	Weight of the participant in pounds as self-reported at the start of the trial.	Numeric .M="Missing"

Section 3: Smoking

Variable	Label	Description	Format Text
age_quit	Age at smoking cessation	Age at which a participant stopped smoking cigarettes.	Numeric .N="No age given"
cigar	Participant smokes/smoked cigars		.M="Missing" 0="No" 1="Yes"
cigsmok	Smoking status at T0	Cigarette smoking status (current vs former) at randomization. Former smokers must have quit within 15 years of eligibility determination to have been eligible for the trial.	0="Former" 1="Current"
pipe	Participant smokes/smoked a pipe		.M="Missing" 0="No" 1="Yes"
pkyr	Pack years	Pack years, calculated as: (Total Years Smoked x Cigarettes Per Day / 20). Allows for 2 significant digits.	Numeric
smokeage	Age at smoking onset	Age at which a participant started smoking cigarettes.	Numeric .M="Missing"
smokeday	Avg. num. of cigarettes per day		Numeric
smokelive	Participant lives/lived with smoker		.M="Missing" 0="No" 1="Yes"
smokework	Participant works/worked with exposure to smokers		.M="Missing" 0="No" 1="Yes"
smokeyr	Total years of smoking	Total number of years the participant smoked cigarettes. For LSS, this was calculated from the age of the participant at randomization (for current smokers) or the age the participant quit smoking (for former smokers), the age the participant began smoking, and the total number of years the participant did not smoke during that time. For ACRIN participants this is the total number of years the participant smoked as reported by the participant.	Numeric

Section 4: Screening

Variable	Label	Description	Format Text
scr_days0-2	Days since randomization at time of screening (for T0, T1, and T2 exams)	Days from randomization to the date of the screening exam. Contains information on either the spiralCT or the chest x-ray screening exam, depending on which study arm the participant was randomized to (see rndgroup).	Numeric .E="Screen date after lung cancer diagnosis" .N="No screen date on record" .W="WrongScreen Administered"
scr_iso0-2	Result of isolation screen (for T0, T1, and T2 exams)	Isolation read of the image(s) from the screening exam before comparing with prior screening images or otheravailable prior images. Contains information on either the spiral CT or the chest x-ray screening exam, depending on which study arm the participantwas randomized to (see rndgroup).	1="Negative screen, no significant abnormalities" 2="Negative screen, minor abnormalities not suspiciousfor lung cancer" 3="Negative screen, significant abnormalities not suspicious for lung cancer" 4="Positive, Change Unspecified, nodule(s) >=4 mm or enlarging nodule(s), mass(es), other non-specific abnormalities suspicious for lung cancer" 10="Inadequate Image" 11="Not Compliant- Left Study" 13="Not Expected - Cancer before screening window" 14="Not Expected - Death before screening window" 15="Not Compliant -Refused a screen" 17="Not Compliant - Wrong Screen" 23="Not Expected - Cancer in screening window" 24="Not Expected - Death in screeningwindow" 95="Not Compliant - Erroneous Report of Lung Cancer Before Screen (LSS Only)" 97="Not Compliant - Form Not Submitted, Window Closed"
scr_lat0-2	Did the participant receive a lateral chest x-ray (in study years T0, T1, and T2)?	Did the participant receive a lateral chest x-ray instead of the proper screening exam? Participants in the x-ray arm were supposed to receive posteroanterior chest x-rays, but a small number of participants were incorrectly given lateral chest x-rays.	0="Did not receive lateral view chest x-ray (includes CT, X-Ray without lateral, no screen, etc) " 1="Receivedlateral view chest x-ray"

Variable	Label	Description	Format Text
scr_res0-2	Results of screening (for T0, T1, and T2 exams)	<p>Official result of the screening exam, after comparing the current image(s) with prior screening images or other available prior images.</p> <p>Participants with positive screens (scr_resX = 4, 5, or 6) were advised to receive a diagnostic evaluation for lung cancer with their personal physician.</p> <p>Contains information on either the spiral CT or the chest x-ray screening exam, depending on which study arm the participant was randomized to (see rndgroup).</p>	<p>1="Negative screen, no significant abnormalities"</p> <p>2="Negative screen, minor abnormalities not suspicious for lung cancer"</p> <p>3="Negative screen, significant abnormalities not suspicious for lung cancer"</p> <p>4="Positive, Change Unspecified, nodule(s) \geq4 mm or enlarging nodule(s), mass(es), other non-specific abnormalities suspicious for lung cancer"</p> <p>5="Positive, No Significant Change, stable abnormalities potentially related to lung cancer, no significant change since prior screening exam."</p> <p>6="Positive, other"</p> <p>10="Inadequate Image"</p> <p>11="Not Compliant - Left Study"</p> <p>13="Not Expected - Cancer before screening window"</p> <p>14="Not Expected - Death before screening window"</p> <p>15="Not Compliant- Refused a screen"</p> <p>17="Not Compliant - Wrong Screen"</p> <p>23="Not Expected - Cancer in screening window"</p> <p>24="Not Expected - Death in screening window"</p> <p>95="Not Compliant - Erroneous Report of Lung Cancer Before Screen (LSS Only)"</p> <p>97="Not Compliant - Form Not Submitted, Window Closed"</p>

Section 5: Follow-up / Procedures

Variable	Label	Description	Format Text
biop0-2	Had a biopsy related to positive screen?	Was a biopsy performed as followup to a positive screen at T0, T1, or T2?	0="No" 1="Yes"
biopLC	Had a biopsy related to lung cancer?	Was a biopsy performed in relation to the diagnosis of lung cancer?	0="No" 1="Yes"
invas0-2	Had an invasive procedure related to positive screen?	Was an invasive procedure done as followup to a positive screen at T0, T1, or T2? Invasive procedures include thoracotomy, thoracoscopy, mediastinotomy, mediastinoscopy, and biopsies.	0="No" 1="Yes"
invasLC	Had an invasive procedure related to lung cancer?	Was an invasive procedure done in relation to the diagnosis of lung cancer? Invasive procedures include thoracotomy, thoracoscopy, mediastinotomy, mediastinoscopy, and biopsies.	0="No" 1="Yes"
medcomp0-2	Had any complications related to positive screen?	Was there a medical complication in relation to the followup of a positive screen at T0, T1, or T2?	0="No" 1="Yes"
medcompLC	Had any complications related to lung cancer?	Was there a medical complication in relation to the diagnosis of lung cancer?	0="No" 1="Yes"
mra_stat0-2	Positive screen follow-up status by study year (from Medical Records Abstraction)	What level of followup was done following a positive screen at T0, T1, or T2?	0="No Expectation" 1="MRA Complete with Diagnostic Procedures" 2="MRA Complete with clinical evaluation/radiograph-comparison with historical images only" 3="MRA Complete with no procedures" 4="MRA Complete, procedures indeterminate" 5="Conflicting Data"
no_proc_reas0-2	Reason for no procedures when follow-up was expected	What is the reason no followup procedures were done following a positive screen at T0, T1, or T2?	0="Either had follow-up to positive screen or no follow-up was expected" 1="Provider/Radiologist did not recommend follow-up" 2="Participant declined to undergo follow-up" 3="No follow-up for other reasons" 4="No follow-up and reason unknown"

Variable	Label	Description	Format Text
proc0-2	Had a procedure related to positive screen?	Was any diagnostic procedure done as followup to a positive screen at T0, T1, or T2?	0="No" 1="Yes"
procLC	Had any procedure related to lung cancer?	Was any diagnostic procedure done in relation to the diagnosis of lung cancer?	0="No" 1="Yes"

Section 6: Lung Cancer

Variable	Label	Description	Format Text
canc_scr	Result of screen associated with the first confirmed lung cancer diagnosis	Indicates whether the cancer followed a positive, negative, or missed screen, or whether it occurred after the screening years.	0="No Cancer" 1="Positive Screen" 2="Negative Screen" 3="Missed Screen" 4="Post Screening"
canc_free_days	Days from randomization to date when participant was last known to be free from lung cancer	Days until the date the participant was last known to be free of lung cancer. This date comes from a participant study update form, except for ACRIN participants with cancer, where the cancer diagnosis date is used. Do not use this variable to calculate follow-up time for lung cancer incidence rates, Cox regressions, etc. Instead, use fup_days for non-cases and candx_days for cases.	Numeric
canc_rpt_link	Is the diagnosis of lung cancer associated with a positive screen?	Is the diagnosis of lung cancer associated with a positive screen? A positive screen and a cancer diagnosis are associated based on a linking algorithm using diagnostic procedures.	0="No" 1="Yes"
canc_rpt_source	Source of lung cancer report	Source of the information that prompted the medical record abstracting to confirm the lung cancer. For LSS participants, the level 5 indicates that cancer was confirmed during the medical record abstraction process after a positive screen. For ACRIN participants, cancers found from positive screens are placed in the level 0, and the level 5 indicates that it was determined the participant had cancer during medical record abstraction for other purposes besides confirming lung cancer.	0="No Report" 1="Participant Self Report (ASU or F1/F2)" 2="Death Certificate" 3="Other Report(CC/CNF)" 4="Endpoint Verification Process (EVP)" 5="Medical Records Abstraction" 7="National Death Index Search (NDI)"

Variable	Label	Description	Format Text
cancyr	Study year associated with first confirmed lung cancer	Study year associated with the first confirmed lung cancer. A cancer associated with a positive screen is assigned the study year of that screen.	.N="Not Applicable" 0="T0" 1="T1" 2="T2" 3="T3" 4="T4" 5="T5" 6="T6" 7="T7"
candx_days	Days from randomization to first diagnosis of lung cancer		Numeric .N="No diagnosis date on record"
confic	Status of lung cancer report	The result of the medical record abstracting that attempted to confirm the report of lung cancer.	0="No Report" 1="Follow-up collected - Confirmed Lung Cancer" 2="Follow-up Collected - ConfirmedNot Lung Cancer" 3="Medical Records cannot be obtained" 4="Pending"
de_grade	Lung cancer grade		.N="Not Applicable" 1="Grade Cannot Be Assessed (GX) " 2="Well Differentiated (G1)" 3="Moderately Differentiated (G2)" 4="Poorly Differentiated (G3)" 5="Undifferentiated (G4)" 6="Unspecified in Pathology Report" 8="Unknown" 9="Missing"
de_stag	Lung cancer Stage	Lung cancer stage (AJCC 6), combining clinical and pathologic staging information.	.N="Not Applicable" 3="Stage IA" 4="Stage IB" 6="Stage IIA" 7="Stage IIB" 8="StageIIIA" 9="Stage IIIB" 10="Stage IV" 11="Occult Carcinoma" 94="Carcinoid, cannot be assessed" 96="Cannot be assessed" 98="TNMnot available" 99="Missing TNM"
de_stag_7thed	AJCC 7th edition stage	Stage of first primary lung cancer, based on AJCC 7th edition stage	.N="Not Applicable" 3="Stage IA" 4="Stage IB" 6="Stage IIA" 7="Stage IIB" 8="StageIIIA" 9="Stage IIIB" 10="Stage IV" 11="Occult Carcinoma" 96="Can't Be Assessed" 99="Missing TNM"
de_type	Lung cancer type from ICD-O-3 morphology	Lung cancer type from ICD-O-3 morphology. For LSS participants, this is recorded separately from the complete ICD code, and represents the best information available on the type of the cancer.	Numeric .M="Missing" .N="Not Applicable"

Variable	Label	Description	Format Text
lesionsize	Pathology lesion size of tumor in millimeters		Numeric .M="Missing" .N="Not Applicable"
loccar	Cancer in Carina	Was the primary tumor located in the carina? A tumor may be located in more than one location.	.N="Not Applicable" 0="No" 1="Yes"
loclhil	Cancer in Left Hilum	Was the primary tumor located in the left hilum? A tumor may be located in more than one location.	.N="Not Applicable" 0="No" 1="Yes"
loclin	Cancer in Lingula	Was the primary tumor located in the lingula? A tumor may be located in more than one location.	.N="Not Applicable" 0="No" 1="Yes"
locllow	Cancer in Left lower lobe	Was the primary tumor located in the left lower lobe? A tumor may be located in more than one location.	.N="Not Applicable" 0="No" 1="Yes"
locllmsb	Cancer in Left main stem bronchus	Was the primary tumor located in the left main stem bronchus? A tumor may be located in more than one location.	.N="Not Applicable" 0="No" 1="Yes"
loclup	Cancer in Left upper lobe	Was the primary tumor located in the left upper lobe? A tumor may be located in more than one location.	.N="Not Applicable" 0="No" 1="Yes"
locmed	Cancer in Mediastinum	Was the primary tumor located in the mediastinum? A tumor may be located in more than one location.	.N="Not Applicable" 0="No" 1="Yes"
locoth	Cancer in Other Location	Was the primary tumor located in an other specified location? A tumor may be located in more than one location.	.N="Not Applicable" 0="No" 1="Yes"
locrhil	Cancer in Right Hilum	Was the primary tumor located in the right hilum? A tumor may be located in more than one location.	.N="Not Applicable" 0="No" 1="Yes"
locrlow	Cancer in Right lower lobe	Was the primary tumor located in the right lower lobe? A tumor may be located in more than one location.	.N="Not Applicable" 0="No" 1="Yes"
locrmid	Cancer in Right middle lobe	Was the primary tumor located in the right middle lobe? A tumor may be located in more than one location.	.N="Not Applicable" 0="No" 1="Yes"

Variable	Label	Description	Format Text
locrmsb	Cancer in Right main stem bronchus	Was the primary tumor located in the right main stem bronchus? A tumor may be located in more than one location.	.N="Not Applicable" 0="No" 1="Yes"
locrup	Cancer in Right upper lobe	Was the primary tumor located in the right upper lobe? A tumor may be located in more than one location.	.N="Not Applicable" 0="No" 1="Yes"
locunk	Cancer in Unknown location	Was the primary tumor located in an unknown location? A tumor may be located in more than one location.	.N="Not Applicable" 0="No" 1="Yes"
treatLC	Status of treatment data	Did the participant receive treatment for lung cancer?	.N="Not Applicable" 1="Confirmed treatment" 2="Confirmed no treatment" 3="Treatment data incomplete"

Section 7: Last Contact

Variable	Label	Description	Format Text
contactstatus	Status of participant at 12/31/2009	Participation level at the end of the study (12/31/2009). Note that a small subset (< 1%) of participants who are "Active" have a last follow-up date before 12/31/2009. Some of them were considerably earlier than 12/31/2009. While these participants are classified as _Active, their vital status is only known through their last follow-up date.	1="Active" 2="Deceased" 3="Randomized but Never Participated" 4="Withdrawn or Lost Contact from Study"
fup_days	Days from randomization to date last known alive	<p>Days from randomization until the date the participant was last known to be alive.</p> <p>For LSS, this is calculated as follows:</p> <ol style="list-style-type: none"> 1. Death date from death certificate 2. Withdrawal date 3. Latest ASU date 4. Latest screen/randomization date <p>For ACRIN, this must be combined from various sources:</p> <ol style="list-style-type: none"> 1. Death date from death certificate (D1) 2. Death date reported on FC 3. Withdrawal date 4. Latest interval date on F1/FC 5. Latest screen/randomization date <p>This is the appropriate variable to use for follow-up time for analyses of mortality and survival. For lung cancer incidence, use fup_days for non-cases and candx_days for cases.</p>	Numeric

Variable	Label	Description	Format Text
wdlost	Reason why case is withdrawn or lost contact	Reason why non-deceased participants stopped actively participating in NLST.	0="Not Withdrawn or Lost Contact" 1="Participant Withdrew Consent" 2="Participant Refused FurtherParticipation for Non-Medical Reasons" 3="Participant Refused Further Participation Due to Physical Illness/Cognitive Impairment" 4="Lost Contact/CannotLocate/No Active Contact with Participant" 5="Administrative Withdrawal"

Section 8: Death

Variable	Label	Description	Format Text
dcfdeathLC	Death certificate lung cancer death	This variable indicates whether the underlying cause of death from the death certificate is lung cancer (first3 digits of DCFICD are "C34").	.M="Death Reported, DC cause of death unknown" .N="No death reported" 0="Death not due to lung cancer" 1="Death due to lung cancer"
dcficc	ICD-10 code for the underlying cause of death	This variable provides a specific cause of death for all deceased participants with a death certificate. It is derived from multiple fields on the death certificate, according to rules established by the National Center for Health Statistics. More detail is available in the separate Cause of Death dataset.	Character " "="Missing"
death_days	Days since randomization at death from most definitive source	Days from randomization to death.	Numeric .N="No date of death on record"
deathcutoff	Death included in lung cancer mortality analysis	Indicates whether deaths occurred before the cutoff for the official final analysis of lung cancer mortality (January 15, 2009). Note that the database was updated after the final analysis, so the data differ slightly from the published results of the trial.	0="No death or no date of death" 1="Death Included" 2="Death Not Included"
deathstat	Death status	Indicates completeness of the death confirmation process.	0="No report of death" 1="EVP certified" 2="Death Certificate coded" 3="Death Certificate received but not coded" 4="Death reported, DC expected to be obtained" 5="Death reported, DC cannot be obtained" 6="NDI Exact match, DC not obtained" 7="NDI Probable match, DC not obtained"
finaldeathLC	Final lung cancer death (Combined best information EVP supplemented with DCF)	This is the authoritative variable indicating whether lung cancer was the cause of death. It uses the information from the Endpoint Verification Process (EVP) if available and uses the death certificate if EVP is not available.	.M="Death Reported, cause of death unknown" .N="No death reported" 0="Death not due to lung cancer" 1="Death due to lung cancer or work-up of suspected lung cancer"

Variable	Label	Description	Format Text
hasdcf	Death certificate status	Has a death certificate been received? Some participants went through the Endpoint Verification Process (EVP), and their lung cancer death status was certified, without a death certificate being received.	0="No" 1="Yes"
ndicd	ICD-10 code for underlying cause of death as provided from NDI+ search.	The cause of death from a National Death Index search. This variable is of little value for analysis. It is available for very few participants and is not as reliable as information from the death certificate (in DCFICD). This variable should only be populated if deathstat is 6 or 7.	Character " "="Missing"

Section 9: Endpoint Verification Process (EVP) Details

Variable	Label	Description	Format Text
evp_revr	Highest level of EVP completed	What was the highest level of the Endpoint Verification Process (EVP) completed? "CDQ" stands for Cause of Death Questionnaire, which is the form completed by EVP team members.	.N="No death certificate coded (or not deceased)" 0="No chair-level CDQ completed (includes if only CDQreceived says chair unblinded or needs more information)" 1="Chair-level CDQ completed (includes if chair was unblinded and a member completed thechair-level review)" 2="Member-level CDQ completed" 3="Team CDQ completed" 4="No CDQ completed , no records available"
evpcert	EVP Certified or not	Was the death certified by the Endpoint Verification Process (EVP), with or without review?	.N="No death certificate coded (or not dead)" 0="Not Certified" 1="Certified (with or without review)"
evpdeath	EVP Certified cause of death	Cause of death according to the Endpoint Verification Process (EVP).	.N="Not Certified or Not Selected" 1="Death due to lung cancer" 2="Other cancer" 3="Not cancer" 4="Death due to diagnostic evaluation for a suspected lung cancer"
evpdirect	Is death the direct, indirect, or direct and indirect result of lung cancer?	For EVP certified deaths from lung cancer (evpdeath is 1 or 4), is death the direct, indirect, or direct and indirect result of lung cancer?	.N="Death NOT due to lung cancer or no death (EVPDEATH in 2, 3, .N)" 1="Direct, result of lung cancer" 2="Indirect, result of diagnostic evaluation" 3="Indirect, result of treatment" 5="Direct and indirect, result of lung cancer and diagnostic evaluation" 6="Direct and indirect, result of lung cancer and treatment" 8="None of the above/Incomplete"
evpincomplete	Reason why a CDQ/EVP review could not be completed	Reason why the Endpoint Verification Process (EVP) review could not be completed.	.N="Not Applicable" 5="Medical records do not exist" 6="Medical records cannot be obtained" 7="Medical records are inadequate and additional documentation cannot be obtained" 8="No resolution was reached before the study was locked."
evpsel	EVP selected or not	Was the death selected for review by the Endpoint Verification Process (EVP)?	.N="No death certificate coded (or not dead)" 0="Run through algorithm and not selected for EVP" 1="Selected for EVP" 2="Late algorithm run (near study closeout date); not selected for EVP"
evpsent	Sent to EVP or not	Did the death undergo a review by the Endpoint Verification Process (EVP)?	.N="No records available" 0="Records not sent to EVP" 1="Records sent to EVP"

Section 10: Work History

Variable	Label	Description	Format Text
resasbe	Asbestos work: Wore mask or other equipment to protect lungs?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes" 2="Sometimes"
resbaki	Baking work: Wore mask or other equipment to protect lungs?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes"
resbutc	Butchering/meat packing work: Wore mask or other equipment to protect lungs?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes" 2="Sometimes"
reschem	Chemicals/plastics manufacturing work: Wore mask or other equipment to protect lungs?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes" 2="Sometimes"
rescoal	Coal mining work: Wore mask or other equipment to protect lungs?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes" 2="Sometimes"
rescott	Cotton/jute processing work: Wore mask or other equipment to protect lungs?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes" 2="Sometimes"
resfarm	Farming work: Wore mask or other equipment to protect lungs?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes" 2="Sometimes"
resfire	Fire fighting work: Wore mask or other equipment to protect lungs?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes" 2="Sometimes"
resflou	Flour/feed or grain milling work: Wore mask or other equipment to protect lungs?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes" 2="Sometimes"
resfoun	Foundry/steel milling work: Wore mask or other equipment to protect lungs?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes" 2="Sometimes"

Variable	Label	Description	Format Text
reshard	Hard rock mining work: Wore mask or other equipment to protect lungs?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes" 2="Sometimes"
respain	Painting work: Wore mask or other equipment to protect lungs?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes" 2="Sometimes"
ressand	Sandblasting work: Wore mask or other equipment to protect lungs?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes" 2="Sometimes"
resweld	Welding work: Wore mask or other equipment to protect lungs?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes" 2="Sometimes"
wrkasbe	Asbestos: Ever worked for 1 or more years?		.M="Missing" 0="No" 1="Yes"
wrkbaki	Baking: Ever worked for 1 or more years?		.M="Missing" 0="No" 1="Yes"
wrkbutc	Butchering/meat packing: Ever worked for 1 or more years?		.M="Missing" 0="No" 1="Yes"
wrkchem	Chemicals/plastics manufacturing: Ever worked for 1 or more years?		.M="Missing" 0="No" 1="Yes"
wrkcoal	Coal mining: Ever worked for 1 or more years?		.M="Missing" 0="No" 1="Yes"
wrkcott	Cotton/jute processing: Ever worked for 1 or more years?		.M="Missing" 0="No" 1="Yes"
wrkfarm	Farming: Ever worked for 1 or more years?		.M="Missing" 0="No" 1="Yes"
wrkfire	Fire fighting: Ever worked for 1 or more years?		.M="Missing" 0="No" 1="Yes"
wrkflou	Flour/feed or grain milling: Ever worked for 1 or more years?		.M="Missing" 0="No" 1="Yes"
wrkfoun	Foundry/steel milling: Ever worked for 1 or more years?		.M="Missing" 0="No" 1="Yes"
wrkhard	Hard rock mining : Ever worked for 1 or more years?		.M="Missing" 0="No" 1="Yes"

Variable	Label	Description	Format Text
wrkpain	Painting: Ever worked for 1 or more years?		.M="Missing" 0="No" 1="Yes"
wrksand	Sandblasting: Ever worked for 1 or more years?		.M="Missing" 0="No" 1="Yes"
wrkweld	Welding: Ever worked for 1 or more years?		.M="Missing" 0="No" 1="Yes"
yrsasbe	Asbestos work: Number of years?		Numeric .M="Missing" .N="Not Applicable"
yrsbaki	Baking work: Number of years?		Numeric .M="Missing" .N="Not Applicable"
yrsbutc	Butchering/meat packing work: Number of years?		Numeric .M="Missing" .N="Not Applicable"
yrschem	Chemicals/plastics manufacturing work: Number of years?		Numeric .M="Missing" .N="Not Applicable"
yrscoal	Coal mining work: Number of years?		Numeric .M="Missing" .N="Not Applicable"
yrscott	Cotton/jute processing work: Number of years?		Numeric .M="Missing" .N="Not Applicable"
yrsfarm	Farming work: Number of years?		Numeric .M="Missing" .N="Not Applicable"
yrsfire	Fire fighting work: Number of years?		Numeric .M="Missing" .N="Not Applicable"
yrsflou	Flour/feed or grain milling work: Number of years?		Numeric .M="Missing" .N="Not Applicable"
yrsfoun	Foundry/steel milling work: Number of years?		Numeric .M="Missing" .N="Not Applicable"
yrshard	Hard rock mining work: Number of years?		Numeric .M="Missing" .N="Not Applicable"
yrspain	Painting work: Number of years?		Numeric .M="Missing" .N="Not Applicable"
yrs sand	Sandblasting work: Number of years?		Numeric .M="Missing" .N="Not Applicable"
yrs weld	Welding work: Number of years?		Numeric .M="Missing" .N="Not Applicable"

Section 11: Disease History

Variable	Label	Description	Format Text
ageadas	Asthma (adult): Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
ageasbe	Asbestosis: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agebron	Bronchiectasis: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agechas	Asthma (childhood): Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agechro	Chronic bronchitis: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agecopd	COPD: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agediab	Diabetes: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
ageemph	Emphysema: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agefibr	Fibrosis of the lung: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agehear	Heart disease or heart attack: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agehype	Hypertension: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agepneu	Pneumonia: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agesarc	Sarcoidosis: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agesili	Silicosis: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agestro	Stroke: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"

Variable	Label	Description	Format Text
agetube	Tuberculosis: Age at diagnosis prior to trial?		Numeric .M="Missing" .N="Not Applicable"
diagadas	Asthma (adult): Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diagasbe	Asbestosis: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diagbron	Bronchiectasis: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diagchas	Asthma (childhood): Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diagchro	Chronic bronchitis: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diagcopd	COPD: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diagdiab	Diabetes: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diagemph	Emphysema: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diagfibr	Fibrosis of the lung: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diaghear	Heart disease or heart attack: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diag hype	Hypertension: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diagpneu	Pneumonia: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diagsarc	Sarcoidosis: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diagsili	Silicosis: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diagstro	Stroke: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
diagtube	Tuberculosis: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"

Section 12: Personal Cancer History

Variable	Label	Description	Format Text
ageblad	Bladder Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agebrea	Breast Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agecerv	Cervical Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agecolo	Colorectal Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
ageesop	Esophageal Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agekidn	Kidney Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agelary	Larynx Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agelung	Lung Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agenasa	Nasal Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
ageoral	Oral Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agepanc	Pancreatic Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agephar	Pharynx Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agestom	Stomach Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agethyr	Thyroid Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"
agetran	Transitional Cell Cancer: Age at diagnosis prior to trial		Numeric .M="Missing" .N="Not Applicable"

Variable	Label	Description	Format Text
cancblad	Bladder Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
cancbrea	Breast Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
canc cerv	Cervical Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
canccolo	Colorectal Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
cancesop	Esophageal Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
canc kidn	Kidney Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
canc lary	Larynx Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
canc lung	Lung Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
canc nasa	Nasal Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
cancoral	Oral Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
canc panc	Pancreatic Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
cancphar	Pharynx Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
canc stom	Stomach Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
canc thyr	Thyroid Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"
canc tran	Transitional Cell Cancer: Ever diagnosed prior to trial?		.M="Missing" 0="No" 1="Yes"

Section 13: Family History of Lung Cancer

Variable	Label	Description	Format Text
fambrother	Did brother(s) (including half-brothers) have lung cancer?		.M="Missing" 0="No" 1="Yes"
famchild	Did child (biological) have lung cancer?		.M="Missing" 0="No" 1="Yes"
famfather	Did father have lung cancer?		.M="Missing" 0="No" 1="Yes"
fammother	Did mother have lung cancer?		.M="Missing" 0="No" 1="Yes"
famsister	Did sister(s) (including half-sisters) have lung cancer?		.M="Missing" 0="No" 1="Yes"

Section 14: Alcohol

Variable	Label	Description	Format Text
acrin_alc_curr	Do you presently drink alcoholic beverages?	For ACRIN participants, was the participant a current drinker at time of entry.	.M="Missing" .N="Not Applicable" .R="Participant Refused to Answer" 1="No" 2="Yes"
acrin_alc_ever	Have you ever consumed alcoholic beverages?	For ACRIN participants, did the participant ever drink alcohol.	.M="Missing" .N="Not Applicable" .R="Participant Refused to Answer" 1="No" 2="Yes"
acrin_drink24hr	During the past 24 hours, how many drinks have you had?	For ACRIN participants who are current drinkers, how many drinks did the participant have in the last 24 hours at time of entry.	Numeric .M="Missing" .N="Not Applicable" .R="Participant Refused to Answer"
acrin_drinknum_curr	What is the usual number of drinks you have per week?	For ACRIN participants who are current drinkers, the average number of drinks the participant had per week at time of entry.	Numeric .M="Missing" .N="Not Applicable" .R="Participant Refused to Answer"
acrin_drinknum_form	What was the usual number of drinks you had per week?	For ACRIN participants who are former drinkers, the average number of drinks the participant had per week before they stopped drinking.	Numeric .M="Missing" .N="Not Applicable" .R="Participant Refused to Answer"
acrin_drinkyrs_curr	For how many years have you been drinking alcoholic beverages?	For ACRIN participants who are current drinkers, how many years they have been drinking alcohol.	Numeric .M="Missing" .N="Not Applicable" .R="Participant Refused to Answer"
acrin_drinkyrs_form	For how many years did you drink alcoholic beverages?	For ACRIN participants who are former drinkers, how many years they drank alcohol.	Numeric .M="Missing" .N="Not Applicable" .R="Participant Refused to Answer"
acrin_lastdrink	How long has it been since you last had an alcoholic drink?	For ACRIN participants who are former drinkers, how long it has been since they last drank alcohol.	.M="Missing" .N="Not Applicable" .R="Participant Refused to Answer" 1="Less than 1 year" 2="1 to 2 years" 3="More than 2 years"
lss_alcohol_freq	How often do you have a drink containing alcohol?		.M="Missing" .N="Not Applicable" 1="Never" 2="Monthly or less often" 3="Two to four times a month" 4="Two to three times a week" 5="Four or more times a week"

Variable	Label	Description	Format Text
lss_alcohol_num	Number of alcoholic drinks on typical day when drinking		.M="Missing" .N="Not Applicable" 1="1" 2="2-3" 3="4" 4="5-7" 5="8 or more"

Section 15: Cancers of Any Site

Variable	Label	Description	Format Text
confirmed_candxdays1-4	Days from randomization until diagnosis for first to fourth confirmed cancer	Lung and other cancers are included.	Numeric .M="Missing" .N="Not applicable"
confirmed_conforder1-4	Order of confirmation for confirmed cancers 1 to 4	An integer from 1 to 4. If a person had multiple cancers diagnosed on the same day, then the values of confirmed_conforder[X] will be equal for those cancers. Lung and other cancers are included.	Numeric .N="Not Applicable"
confirmed_icd_behavior1-4	ICD-O-3 behavior for first to fourth confirmed cancer	Lung and other cancers are included.	.M="Missing" .N="Not applicable" 0="Benign" 1="Borderline malignancy" 2="In situ" 3="Malignant, primary site" 6="Malignant, metastatic site" 9="Malignant, unknown whether primary or metastatic"
confirmed_icd_grade1-4	ICD-O-3 grade for first to fourth confirmed cancer	Lung and other cancers are included.	.M="Missing" .N="Not applicable" 0="Not Malignant" 1="Well differentiated; Grade I" 2="Moderately differentiated; Grade II" 3="Poorly differentiated; Grade III" 4="Undifferentiated; Grade IV" 5="T cell; T precursor" 6="B cell; preB; B precursor" 7="Null cell; Non T, non B" 8="NK cell" 9="Unknown"
confirmed_icd_morph1-4	ICD-O-3 morphology for first to fourth confirmed cancer	Lung and other cancers are included.	Numeric .M="Missing" .N="Not applicable"
confirmed_icd_topog1-4	ICD-O-3 topography for first to fourth confirmed cancer	Lung and other cancers are included.	Char, 5 " "="Missing"

Variable	Label	Description	Format Text
confirmed_seer1-4	SEER classification of first to fourth confirmed cancer	Lung and other cancers are included.	.N="Not applicable" 20010='Lip' 20020='Tongue' 20030='Salivary Gland' 20040='Floor of Mouth' 20050='Gum and Other Mouth' 20060='Nasopharynx' 20070='Tonsil' 20080='Oropharynx' 20090='Hypopharynx' 20100='Other OralCavity and Pharynx' 21010='Esophagus' 21020='Stomach' 21030='Small Intestine' 21041='Cecum' 21042='Appendix' 21043='AscendingColon' 21044='Hepatic Flexure' 21045='Transverse Colon' 21046='Splenic Flexure' 21047='Descending Colon' 21048='Sigmoid Colon' 21049='Large Intestine, NOS' 21051='Rectosigmoid Junction' 21052='Rectum' 21060='Anus, Anal Canal and Anorectum' 21071='Liver' 21072='Intrahepatic Bile Duct' 21080='Gallbladder' 21090='Other Biliary' 21100='Pancreas' 21110='Retroperitoneum' 21120='Peritoneum, Omentum and Mesentery' 21130='Other Digestive Organs' 22010='Nose, Nasal Cavity and Middle Ear' 22020='Larynx' 22030='Lung and Bronchus' 22050='Pleura' 22060='Trachea, Mediastinum and Other Respiratory Organs' 23000='Bones and Joints' 24000='Soft Tissue including Heart' 25010='Melanoma of the Skin'e 25020='Other Non-Epithelial Skin' 26000='Breast' [continued...]

Variable	Label	Description	Format Text
[...continued] confirmed_seer1-4			[...continued] 27010='Cervix Uteri' 27020='Corpus Uteri' 27030='Uterus, NOS' 27040='Ovary' 27050='Vagina' 27060='Vulva' 27070='Other Female Genital Organs' 28010='Prostate' 28020='Testis' 28030='Penis' 28040='OtherMale Genital Organs' 29010='Urinary Bladder' 29020='Kidney and Renal Pelvis' 29030='Ureter' 29040='Other Urinary Organs' 30000='Eyeand Orbit' 31010='Brain' 31040='Cranial Nerves Other Nervous System' 32010='Thyroid' 32020='Other Endocrine including Thymus' 33011='Hodgkin - Nodal' 33012='Hodgkin - Extranodal' 33041='NHL - Nodal' 33042='NHL - Extranodal' 34000='Myeloma' 35011='AcuteLymphocytic Leukemia' 35012='Chronic Lymphocytic Leukemia' 35013='Other Lymphocytic Leukemia' 35021='Acute Myeloid Leukemia' 35022='Chronic Myeloid Leukemia' 35023='Other Myeloid/Monocytic Leukemia' 35031='Acute Monocytic Leukemia' 35041='Other Acute Leukemia' 35043='Aleukemic, subleukemic and NOS' 36010='Mesothelioma' 36020='Kaposi Sarcoma' 37000='Misc' 99999='Invalid'

Variable	Label	Description	Format Text
confirmed_seercat1-4	SEER category of first to fourth confirmed cancer	Lung and other cancers are included.	.N='Not Applicable' 11='Oral Cavity and Pharynx' 12='Digestive System' 13='Respiratory System' 14='Bones and Joints' 15='Soft Tissue including Heart' 16='Skin excluding Basal and Squamous' 17='Breast' 18='Female GenitalSystem' 19='Male Genital System' 20='Urinary System' 21='Eye and Orbit' 22='Brain and Other Nervous System' 23='Endocrine System' 24='Lymphoma' 25='Myeloma' 26='Leukemia' 27='Mesothelioma' 28='Kaposi Sarcoma' 29='Miscellaneous' 99='Bad data'
num_confirmed	Number of confirmed cancers	Lung and other cancers are included.	Numeric