

# NLST Pathology Image Masterfile: Data Dictionary

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## Document Summary

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# NLST Pathology Image Masterfile: 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	LSS Participants (1xxxxx) ACRIN Participants (2xxxxx)	Numeric

## Section 2: Overview

Variable	Label	Description	Format Text
<b>image_filename</b>	Image Filename		Char, 24
<b>image_filesize</b>	Image Filesize (kb)		Numeric
<b>lc_order</b>	Order Of This Cancer Among Participant's Lung Cancers		Numeric
<b>selected_path</b>	Image Selected for Standard Pathology Selection	Image included the Standard Pathology Selection.  The images included in the Standard Pathology Selection are those for the first primary lung cancer for participants with a baseline questionnaire.	0="No" 1="Yes"
<b>selected_path_batch</b>	Standard Pathology Selection Image Batch	Batch number associated with path H&E images selected for inclusion in the Standard Pathology Selection.	.N="Not Applicable" 1="Adenocarcinoma" 2="Adenocarcinoma" 3="Adenocarcinoma" 4="Adenocarcinoma" 5="Squamous cell carcinoma" 6="Squamous cell carcinoma" 7="Squamous cell carcinoma" 8="Bronchio-alveolar carcinoma" 9="Other lung cancers"

## Section 3: Tissue Block

Variable	Label	Description	Format Text
<b>block_annotated</b>	Is The Block Annotated		0="No" 1="Yes"
<b>block_color1-5</b>	Slide Annotation Color		"AQUA"="Aqua (Metastasis)" "BLACK"="Black (Invasive Carcinoma)" "BLUE"="Blue (Carcinoma In Situ)" "BROWN"="Brown (Pre-Malignant)" "GOLD"="Gold (Other)" "GREEN"="Green (Distal Bronchiole)" "ORANGE"="Orange (Normal Lymph Node)" "OTHER"="Other" "PURPLE"="Purple (Normal Lung)" "RED"="Red (Invasive Type II)" "YELLOW"="Yellow (Proximal Bronchus)"
<b>block_dnacore_cnt</b>	Number Of Current DNA Cores		Numeric
<b>block_dnacore_orig_cnt</b>	Number Of Original DNA Cores		Numeric
<b>block_dnacore_vials</b>	Number Of Vials With DNA Cores		Numeric
<b>block_has_dnacore</b>	Block Has DNA Cores		0="No" 1="Yes"
<b>block_has_tmacore</b>	Block Has TMA Cores		0="No" 1="Yes"
<b>block_slide_cnt</b>	Number Of H&E Slides For Block	The total number of path H&E slides from the block. The image is an image of one of those slides.	Numeric
<b>block_tmacore_cnt</b>	Number Of Current TMA Cores		Numeric
<b>block_tmacore_non_tumor_cnt</b>	Number Of TMA Cores Without Tumor Tissue		Numeric
<b>block_tmacore_orig_cnt</b>	Number Of Original TMA Cores		Numeric
<b>block_tmacore_tumor_cnt</b>	Number Of TMA Cores With Tumor Tissue		Numeric
<b>block_worst_class</b>	Worst Histology Observed For Tissue Block		.M="Missing" 1="Invasive" 2="In-Situ" 3="Pre-Malignant" 6="Other Condition" 7="Normal Tissue"
<b>block_worst_grade</b>	Worst Grade Observed For Tissue Block		.M="Missing" 2="Moderately Differentiated" 4="Undifferentiated"
<b>block_worst_grade_qual</b>	Worst Grade Observed For Tissue Block (Character)		"Moderately"="Moderately Differentiated" "Undifferentiated"="Undifferentiated"

## Section 4: Regions of Interest

Variable	Label	Description	Format Text
<b>roi_count</b>	Number Of Regions Of Interest		Numeric
<b>roi_highest_grade1-6</b>	Region Highest Grade		.N="Not Applicable" 0="Blank" 1="Well Differentiated" 2="Moderately Differentiated" 3="Poorly Differentiated" 4="Undifferentiated"
<b>roi_highest_grade_qual1-6</b>	Region Highest Grade (Character)		"Moderately"="Moderately" "N/A"="N/A" "Poorly"="Poorly" "Undifferentiated"="Undifferentiated" "Well Differentiated"="Well Differentiated"
<b>roi_histology_cat1-6</b>	Region Histology Type - Categorized		.M="Missing" .N="Not Applicable" 1="Metastasis" 2="Invasive Carcinoma" 3="Carcinoma In Situ" 4="Pre-Malignant" 5="Distal Bronchiole" 6="Proximal Bronchus" 7="Normal Lymph Node" 8="Normal Lung" 9="Other"
<b>roi_histology_subtype1-6</b>	Region Histology Subtype	For cancers, it includes a text description of the WHO classification. For non-tumor lung tissue, see roi_histology_cat for further distinctions (i.e. distal bronchiole vs. proximal bronchus vs. other normal lung tissue).	Char, 65
<b>roi_histology_type_raw1-6</b>	Region Histology Type - Raw		"Carcinoma In Situ"="Carcinoma In Situ" "Carcinoma in Situ"="Carcinoma in Situ" "Distal Bronchial"="Distal Bronchial" "Invasive Carcinoma Type II"="Invasive Carcinoma Type II" "Invasive Carcinoma"="Invasive Carcinoma" "Invasive carcinoma"="Invasive carcinoma" "Metastasis"="Metastasis" "Normal LN"="Normal LN" "Normal Lung"="Normal Lung" "Other"="Other" "Pre-Malignant"="Pre-Malignant" "Proximal Bronchus"="Proximal Bronchus" "Unmarked"="Unmarked"
<b>roi_inflamm_cell_percent1-6</b>	Region Inflammatory Cell Percent		Numeric .M="Missing" .N="Not Applicable"

Variable	Label	Description	Format Text
<b>roi_inv_tumor_dim1-6</b>	Size of Invasive Component of Tumor (mm)		Numeric .M="Missing" .N="Not Applicable"
<b>roi_inv_tumor_dim_raw1-6</b>	Raw Size of Invasive Component of Tumor (mm)		Char, 5
<b>roi_label_color1-6</b>	Region Label Color		"AQUA"="Aqua (Metastasis)" "BLACK"="Black (Invasive Carcinoma)" "BLUE"="Blue (Carcinoma In Situ)" "BROWN"="Brown (Pre-Malignant)" "GOLD"="Gold (Other)" "GREEN"="Green (Distal Bronchiole)" "ORANGE"="Orange (Normal Lymph Node)" "OTHER"="Other" "PURPLE"="Purple (Normal Lung)" "RED"="Red (Invasive Type II)" "YELLOW"="Yellow (Proximal Bronchus)"
<b>roi_likely_met1-6</b>	Region Likely Metastasis (Raw)?		"BLANK"="Blank" "Can't Determine"="Can't Determine" "N/A"="N/A" "None"="None" "Probable"="Probable" "Unlikely"="Unlikely"
<b>roi_lymph_inv1-6</b>	Region Lymph Node Invasion?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes"
<b>roi_lymph_inv_raw1-6</b>	Region Lymph Node Invasion (Raw)?		"No"="No" "Not Applicable"="Not Applicable" "Yes"="Yes"
<b>roi_metastases1-6</b>	Region Likely Metastasis?		.M="Missing" .N="Not Applicable" 0="No" 1="Probable" 2="Unlikely" 99="Can't Determine"
<b>roi_nontumor_histo_raw1-6</b>	Region Non-Tumor Histology (Raw)		Char, 11
<b>roi_nontumor_prem_alig1-6</b>	Region Non-Tumor Premalignant Histology		.M="Missing" .N="Not Applicable" 1="Squamous Carcinoma in-Situ" 2="Squamous Dysplasia, MILD" 3="Squamous Dysplasia, Moderate" 4="Squamous Dysplasia, SEVERE" 5="Atypical Adenomatous Hyperplasia (AAH)" 7="Reserve Cell Hyperplasia" 8="Carcinoid Tumorlet" 88="Other" 99="N/A"
<b>roi_NThist_Chronic_bronchitis1-6</b>	Has Chronic Bronchitis?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_NThist_Emphysema1-6</b>	Has Emphysema?		.N="Not Applicable" 0="No" 1="Yes"

Variable	Label	Description	Format Text
<b>roi_NThist_Fibrosis1-6</b>	Has Fibrosis?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_NThist_Granuloma1-6</b>	Has Granuloma?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_NThist_Hemorrhage1-6</b>	Has Hemorrhage?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_NThist_Infarction1-6</b>	Has Infarction?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_NThist_Necrosis1-6</b>	Has Necrosis?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_NThist_Normal_lung1-6</b>	Has Normal Lung Tissue?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_NThist_Other_specify1-6</b>	Has Other Condition?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_NThist_Pneumonia1-6</b>	Has Pneumonia?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_NThist_Pre_neoplastic_tiss1-6</b>	Has Pre-Neoplastic Tissue?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_number1-6</b>	Region of Interest Number	Each Region of Interest within a tissue block is assigned a number. This is used for linking TMA cores to the ROI.	Numeric .N="Not Applicable"
<b>roi_Premalig_AAH1-6</b>	Has Atypical Adenomatous Hyperplasia (AAH)?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_Premalig_Carcinoid_tumorlet1-6</b>	Has Carcinoid Tumorlet?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_Premalig_DIPNECH1-6</b>	Has Diffuse Idiopathic Neuroendocrine Cell Hyperplasia?		.N="Not Applicable" 0="No"
<b>roi_Premalig_Other_specify1-6</b>	Has Other Pre-Malignant Condition?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_Premalig_RCH1-6</b>	Has Reserve Cell Hyperplasia?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_Premalig_Squamous_carc_ins1-6</b>	Has Squamous Carcinoma In-Situ?		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_Premalig_Squamous_dysp_mild1-6</b>	Has Squamous Dysplasia - MILD		.N="Not Applicable" 0="No" 1="Yes"



Variable	Label	Description	Format Text
<b>roi_Premalig_Squamous_dysp_mod1-6</b>	Has Squamous Dysplasia - MODERATE		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_Premalig_Squamous_dysp_sev1-6</b>	Has Squamous Dysplasia - SEVERE		.N="Not Applicable" 0="No" 1="Yes"
<b>roi_tumor_cell_percent1-6</b>	Region Tumor Cell Percent		Numeric .M="Missing" .N="Not Applicable"
<b>roi_vessel_inv1-6</b>	Region Vessel Invasion?		.M="Missing" .N="Not Applicable" 0="No" 1="Yes"
<b>roi_vessel_inv_raw1-6</b>	Region Vessel Invasion (Raw)?		"No"="No" "Not Applicable"="Not Applicable" "Yes"="Yes"
<b>roi_WHO_class1-6</b>	Region WHO Classification	Based on 2004 WHO classification of lung tumors. Includes a 4-digit morphology code and a 1-digit behavior code (####/#).	Char, 6
<b>roi_who_class_beh1-6</b>	Region WHO Behavior		.M="Missing" .N="Not Applicable" 2="In-Situ" 3="Invasive"
<b>roi_who_class_mor1-6</b>	Region WHO Morphology	4-digit ICD morphology.	Numeric .M="Missing" .N="Not Applicable"