

COVID19LungTransplantRegistry\_DataDictionary\_2021-10-21

Variable / Field Name	Form Name	Section Header	Field Type	Field Label
record_id	covid19_lung_transplant_registry_fa6847		text	Record ID
txinst	submitter_details		text	Transplant Institute Name
submitter	submitter_details		text	Please enter the initials of the submitter
email	submitter_details		text	Submitter Email Address
gender	pretransplant_module		radio	Patient Gender at Birth
age	pretransplant_module		text	Age at time of listing
race	pretransplant_module		radio	Patient Race
ethnicity	pretransplant_module		radio	Patient's ethnicity
country	pretransplant_module		dropdown	What country does the patient live in?
nomus	pretransplant_module		text	What country is the patient from if other?
comorbbyn	pretransplant_module		yesno	Did the patient have co-morbid conditions prior to contracting COVID-19
comorbid	pretransplant_module		checkbox	If the patient had pre-existing comorbid conditions, which conditions did they have?
othercomorbid	pretransplant_module		text	What other comorbid conditions did the patient have?
lungpre	pretransplant_module		checkbox	Which lung diseases did the patient have prior to COVID-19
otherlung	pretransplant_module		text	What other lung comorbid conditions did the patient have?
preco2	pretransplant_module		yesno	Did the patient require supplemental oxygen prior to contracting COVID-19
o2l	pretransplant_module		text	How many liters of oxygen did the patient require prior to COVID-19 diagnosis?
precliat	pretransplant_module		yesno	Was the patient listed for lung transplant prior to contracting COVID-19.
precliatdx	pretransplant_module		checkbox	If the patient was listed for lung transplant prior to contracting COVID, what was the leading indication for listing?
otherprecliat	pretransplant_module		text	What was the other reason for listing for lung transplant prior to COVID-19?
preclas	pretransplant_module		text	If patient was listed for lung transplant prior to contracting COVID, what was the most recent lung allocation score prior to the COVID diagnosis?
listingtime	pretransplant_module		text	How many days between the initial COVID-19 diagnosis and the time of listing
negpcryn	pretransplant_module		yesno	Did the patient have a negative PCR test at any site prior to transplant?
time2neg	pretransplant_module		text	Time in days from first positive PCR to first negative PCR Testing
neg	pretransplant_module		checkbox	Site of first negative PCR result
upperneg	pretransplant_module		text	Time from initial diagnosis to first negative Upper Track (Nasal or oral) in days
lowerneg	pretransplant_module		text	Time in days from first PCR to first negative deep sample PCR (tracheal or bronch samples)
numneg	pretransplant_module		checkbox	How many negative tests were required to clear for transplant
poslist	pretransplant_module		checkbox	Was the SARS-CoV-2 PCR positive at the time of listing for transplant
poslistsite	pretransplant_module		checkbox	Which site had a positive result at the time of listing
poslistct	pretransplant_module		text	What was the Ct value of the positive result (if both sites are positive, list lower track source)?
postx	pretransplant_module		checkbox	Was the COVID PCR positive at the time of transplant?
postxsite	pretransplant_module		checkbox	Which site was positive at the time of transplant
postxct	pretransplant_module		text	What was the Ct value of the positive PCR at the time of transplant (if multiple sites, provide the lower track Ct value)
abpreyn	pretransplant_module		yesno	Did the patient have SARS-CoV-2 antibody testing prior to transplant?
abtype	pretransplant_module		checkbox	Which assay was done and positive (if not done, do not check)?
abtime	pretransplant_module		text	Time from first SARS-CoV-2 PCR to antibody test in days
mechventdays	pretransplant_module		text	How many days was the patient on mechanical ventilation from initial diagnosis to the date of transplantation
ventdepyn	pretransplant_module		yesno	Was the patient ventilator-dependent at the time of transplant?
fi02vent	pretransplant_module		text	What was the FiO2 on the ventilator at the time of transplant
compliance	pretransplant_module		text	What was the static lung compliance at the time of transplant (mL/cmH2O)?
ecmodays	pretransplant_module		text	Number of days of ECMO support from the time of initial diagnosis to the time of transplant
ecmotx	pretransplant_module		yesno	Was the patient ECMO Dependent at the time of transplant
ecmotfo2	pretransplant_module		text	What was the FiO2 on the ECMO circuit at the time of transplant?
mobility	pretransplant_module		radio	What was the patient's level of mobility at the time of transplant?
paralytics	pretransplant_module		yesno	Did the patient require paralytics within 7 days of transplant
consent	pretransplant_module		checkbox	Who provided the transplant consent?
cavity1	pretransplant_module		yesno	Did the patient have any cavities on chest imaging prior to transplant?
cavitycause	pretransplant_module		radio	What was the cause of the cavity?
cavityrx	pretransplant_module		radio	How was the patient treated after the cavity was noted?
cavitypost	pretransplant_module		checkbox	Was the therapy used to treat the presumed or proven cause of the cavity?
prefibrosis	pretransplant_module		yesno	Did the patient have evidence of fibrosis on CT imaging prior to the transplant?
lastx	pretransplant_module		text	What was the Lung Allocation Score (LAS) at the time of transplant?
covidtx	pretransplant_module		checkbox	What medical therapies did the patient receive to treat COVID-19 prior to transplant?
covidtx_other	pretransplant_module		text	What was the other medical therapy used to treat COVID-19 prior to transplant?
bacteria	pretransplant_module		text	Please list all bacterial infections (culture or PCR positive) treated in the 2 weeks prior to transplant (leave blank if none)
fungal	pretransplant_module		text	Please list all fungal infections treated in the 2 weeks prior to transplant (leave blank if none)
mycobact	pretransplant_module		text	Please list all mycobacterial infections treated in the 2 weeks prior to transplant (leave blank if none)
viral	pretransplant_module		text	Please list all viral infections treated in the 2 weeks prior to transplant (leave blank if none)
otherinfect	pretransplant_module		text	Please list all other infections treated in the 2 weeks prior to transplant (leave blank if none)
time2tx	transplant_event_module		text	How many days from the first positive SARS-CoV-2 PCR test to the day of transplant
opecmo	transplant_event_module		yesno	Was intraoperative ECMO used for the patient?
orecmotype	transplant_event_module		checkbox	What type of ECMO was used in OR?
postopecmo	transplant_event_module		yesno	Was the patient on ECMO when they left the OR?
ecmoortime	transplant_event_module		text	How many minutes of ECMO were used in the OR?
bypass	transplant_event_module		yesno	Was Cardiopulmonary Bypass Used in the OR?
bypasslime	transplant_event_module		text	How many minutes of cardiopulmonary bypass were required?
ischemia	transplant_event_module		text	What was the total ischemia time (hours)
cell saver	transplant_event_module		yesno	Was the Cell Saver used intra-operatively
rbc	transplant_event_module		text	How many intra-operative units of RBCs were given (enter 0 if none)?
ffp	transplant_event_module		text	How many units of FFP were used while in the OR (enter 0 if none)?
plt	transplant_event_module		text	How many units of platelets were used in the OR (enter 0 if none)?
inductionyn	posttransplant_course_module		yesno	Did the patient receive induction immunosuppression?
inductionag	posttransplant_course_module		checkbox	What agent(s) was used for induction immunosuppression?
inductionag_other	posttransplant_course_module		text	What other agent(s) were used for induction immunosuppression?
maint	posttransplant_course_module		checkbox	What are the current maintenance immunosuppression being used on the patient currently?
other	posttransplant_course_module		checkbox	Did the patient receive any additional immunosuppression at any point post-transplant?
posttxcovid	posttransplant_course_module		yesno	Did the patient receive any SARS-CoV-2 directed therapy post-transplant
covidtxrx	posttransplant_course_module		checkbox	What COVID-10 specific therapeutics were used post-transplant?
otherposttx	posttransplant_course_module		text	What other COVID-19 specific therapies were used post-transplant
posttxtest	posttransplant_course_module		yesno	Did the patient have post-transplant surveillance for SARS-CoV-2 by PCR testing?
posttxptime	posttransplant_course_module		descriptive	<div class="rich-text-field-label"><p>Please list the site and days post-transplant that the positive PCR results were detected (leave row blank if t
posttxptime_site1	posttransplant_course_module		radio	Site1
posttxptime_site2	posttransplant_course_module		radio	Site2
posttxptime_site3	posttransplant_course_module		radio	Site3
posttxptime_site4	posttransplant_course_module		radio	Site4
posttxptime_site5	posttransplant_course_module		radio	Site5
posttxptime_time1	posttransplant_course_module		text	Days1
posttxptime_time2	posttransplant_course_module		text	Days2
posttxptime_time3	posttransplant_course_module		text	Days3
posttxptime_time4	posttransplant_course_module		text	Days4
posttxptime_time5	posttransplant_course_module		text	Days5
posttxiculos	posttransplant_course_module		text	What was the post-transplant length of stay in the ICU in days?
posttxecmo	posttransplant_course_module		text	How many days of ECMO support were needed between transplant and discharge?
posttxvent	posttransplant_course_module		text	How many days of mechanical ventilatory support were needed from transplant until discharge?
posttxlos	posttransplant_course_module		text	What was the post-transplant total length of stay in the hospital (days from transplant to first discharge)
dxlocation	posttransplant_course_module		dropdown	Where was the patient discharged to?
rehablos	posttransplant_course_module		text	How long was the patient in inpatient rehabilitation (in days)?
alive30	posttransplant_course_module	30 Day Post-Tran	yesno	Did the patient survive to day 30?
cod30	posttransplant_course_module		text	What was the cause of death?
posttxdeath30	posttransplant_course_module		text	What was the post-transplant day of death
complication30	posttransplant_course_module		checkbox	Which of the following post-transplant complications did the patient experience in the first 30 days after transplant?
comp30reason	posttransplant_course_module		text	List Other Complications
complication90	posttransplant_course_module	6 Month Post-Tra	checkbox	Which of the following post-transplant complications did the patient experience day 31-90 post-transplant?
comp90reason	posttransplant_course_module		text	List Other Complications
complication180	posttransplant_course_module		checkbox	Which of the following post-transplant complications did the patient experience day 91-180 (months 3-6) post-transplant?
comp180reason	posttransplant_course_module		text	List Other Complications
alive180	posttransplant_course_module		radio	Is the patient alive at day 180 post-transplant?
cod180	posttransplant_course_module		text	What was the cause of death?
rejection180	posttransplant_course_module		yesno	Did the patient experience antibody or cellular rejection through day 180 (6 months) post-transplant?
rejectn	posttransplant_course_module		text	How many treated episodes of rejection (ACR or AMR) occurred during the first 180 days (6 months) post-transplant?
reject1type	posttransplant_course_module		checkbox	For rejection episode #1: What type of rejection did the patient have?
reject1grade	posttransplant_course_module		text	For rejection episode #1: Using ISHLT Criteria, what was the grade of rejection (if more than one, please select most severe)
morerej1	posttransplant_course_module		yesno	Did the patient have another rejection episode in the first 180 days (6 months post-transplant)?
reject2type	posttransplant_course_module		checkbox	For rejection episode #2: What type of rejection did the patient have?
reject2grade	posttransplant_course_module		text	For rejection episode #2: Using ISHLT Criteria, what was the grade of rejection (if more than one, please select most severe)
morerej2	posttransplant_course_module		yesno	Did the patient have another rejection episode in the first 180 days (6 months post-transplant)?
reject3type	posttransplant_course_module		checkbox	For rejection episode #3: What type of rejection did the patient have?
reject3grade	posttransplant_course_module		text	For rejection episode #3: Using ISHLT Criteria, what was the grade of rejection (if more than one, please select most severe)
morerej3	posttransplant_course_module		yesno	Did the patient have another rejection episode in the first 180 days (6 months post-transplant)?
reject4type	posttransplant_course_module		checkbox	For rejection episode #4: What type of rejection did the patient have?
reject4grade	posttransplant_course_module		text	For rejection episode #4: Using ISHLT Criteria, what was the grade of rejection (if more than one, please select most severe)
complication365	posttransplant_course_module	12 Month Follow-	checkbox	Which of the following post-transplant complications did the patient experience day 181-365 (months 6-12) post-transplant?
comp365reason	posttransplant_course_module		text	List Other Complications
alive365	posttransplant_course_module		radio	Is the patient alive at day 365 (1 year) post-transplant?
cod365	posttransplant_course_module		text	What was the cause of death?

rejection365	posttransplant_course_module		yesno	Did the patient experience antibody or cellular rejection day 181-365 (6-12 months) post-transplant?
rejectn_365	posttransplant_course_module		text	How many treated episodes of rejection (ACR or AMR) occurred during day 181-365 (6-12 months) post-transplant?
reject1type_2	posttransplant_course_module		checkbox	For rejection episode #1: What type of rejection did the patient have?
reject1grade_2	posttransplant_course_module		text	For rejection episode #1: Using ISHLT Criteria, what was the grade of rejection (if more than one, please select most severe)
morerej4	posttransplant_course_module		yesno	Did the patient have another rejection episode in day 181-365 days (months 6-12 months post-transplant)?
reject1type_3	posttransplant_course_module		checkbox	For rejection episode #2: What type of rejection did the patient have?
reject1grade_3	posttransplant_course_module		text	For rejection episode #2: Using ISHLT Criteria, what was the grade of rejection (if more than one, please select most severe)
morerej5	posttransplant_course_module		yesno	Did the patient have another rejection episode in the first 180 days (6 months post-transplant)?
reject2type_4	posttransplant_course_module		checkbox	For rejection episode #3: What type of rejection did the patient have?
reject2grade_4	posttransplant_course_module		text	For rejection episode #3: Using ISHLT Criteria, what was the grade of rejection (if more than one, please select most severe)
morerej6	posttransplant_course_module		yesno	Did the patient have another rejection episode in the first 180 days (6 months post-transplant)?
reject2type_5	posttransplant_course_module		checkbox	For rejection episode #4: What type of rejection did the patient have?
reject2grade_5	posttransplant_course_module		text	For rejection episode #4: Using ISHLT Criteria, what was the grade of rejection (if more than one, please select most severe)
postother	posttransplant_course_module		notes	Are there any other issues about the patient you want to include?

Choices, Calculations, OR Slider Labels	Field Note	Text Validation Type	OR Show Slider Number	Text Validation Min	Text Validation Max	Identifier?	Branching Logic (Show field only if...)	Required Field?
		email						
1, Male   2, Female								y
		number		18	99			y
1, White/Caucasian   2, Black   3, Asian   4, Native American   5, Other   6, Unknown								y
1, Hispanic   2, Non-Hispanic   3, Unknown								y
1, United States   2, Other							[country] = '2'	y
								y
14, Any lung disease prior to developing COVID-19   1, Essential hypertension   2, Diabetes   12, Obesity, BMI<30-35   13, Morbid Obesity, BMI >35   3, Hyperlipidemia   4, Coronary artery disease   5, Peripheral vascular disease   6, Depression or anxiety   7, Chronic kidney disease   8, Immunosuppressed state   9, History of smoking   10, Blood							[comorb1] = '1' [comorb10] = '1'	y
1, Asthma   2, COPD/ emphysema   3, Sarcoidosis   4, ILD: IPF   5, ILD: non-IPF   6, Cystic fibrosis   7, Pulmonary arterial hypertension   8, None   9, Other							[lungpre8] = '1'	y
							[preco2] = '1'	y
							[prelist] = '1' [prelist6] = '1' [prelist] = '1'	y
1, COPD/ emphysematous lung disease   2, Interstitial lung disease, IPF   3, Interstitial lung disease, non-IPF   4, Cystic fibrosis   5, Pulmonary arterial hypertension   6, Other		number		1	365			y
		number		1	365		[negpcrn] = '1'	y
1, Upper Track (Nasal or Oral)   2, Lower Track (eg, Tracheal or bronchial samples)   3, Unknown		number		1	365		[negpcrn] = '1'	y
		number		1	365		[neg1] = '1'	y
		number		1	365		[neg2] = '1'	y
1, None were required to be negative   2, One negative PCR   3, Two negative PCRs   4, Three negative PCRs   5, >3 negative PCRs							y	y
1, Yes   2, No								y
1, Upper   2, Deep							[post1] = '1' [post1] = '1'	y
1, Yes   2, No   3, Not tested at the time of transplant							[post1] = '1' [post1] = '1'	y
1, Upper   2, Lower								y
							[abpreyn] = '1'	y
1, Spike Antibody Positive   2, Spike Antibody Negative   3, Nucleocapsid Antibody Positive   4, Nucleocapsid Antibody Negative   5, Other Antibody Positive   6, Other Antibody Negative		number		1	365		[abpreyn] = '1'	y
		number		1	365			y
							[ventdeprn] = '1'	y
		number		1	365		[ventdeprn] = '1'	y
							[ecmotx] = '1'	y
1, Patient fully ambulatory   2, Patient ambulatory with assistance   3, Patient not ambulatory, but able to participate in physical therapy   4, Patient not ambulatory and not able to participate in physical therapy								y
1, The Patient   2, Next of Kin								y
								y
1, Proven Aspergillus   2, Presumed Aspergillus   3, Proven Mucormycosis   4, Presumed Mucormycosis   5, Bacterial   6, Non-Infectious   7, Unable to diagnose the cause							[cavity1] = '1'	y
1, No treatment provided   2, Empiric antibiotics   3, Pathogen-directed antibiotics   4, Empiric antifungals   5, Pathogen-directed antifungals							[cavity1] = '1'	y
1, Stopped at some point prior to transplant (short course of therapy completed)   2, Ongoing at the time of transplant but not continued post-transplant   3, Ongoing at the time of transplant and continued post-transplant							[cavity1] = '1'	y
								y
1, Remdesivir   2, Dexamethasone   3, Convalescent plasma   4, Monoclonal antibody treatment   5, IL-6 Therapy (tocilizumab, Sarilumab)   6, Baricitinib   7, Other							[covidtx7] = '1'	y
								y
		number		1	365			y
								y
1, VA   2, VV							[opecmo] = '1'	y
		number		1	6000		[opecmo] = '1'	y
		number		1	500		[bypass] = '1'	y
		number		1	24			y
		number		0	50			y
		number		0	20			y
		number		0	100			y
								y
1, Basliximab   2, Alemtuzumab   3, Thymoglobulin   4, Daclizumab   5, Methylprednisolone   6, Other							[inductionyn] = '1' [inductionag6] = '1'	y
1, Tacrolimus   2, Mycophenolate mofetil   3, Prednisone   4, Sirolimus   5, Cyclosporine   6, Everolimus   7, Belatacept								y
1, None   2, Eculizumab   3, Rituximab   4, Plasma Pheresis   5, IVIG								y
								y
1, Remdesivir   2, Monoclonal antibody   3, Convalescent plasma   4, IL-6 inhibitor   5, JAK inhibitor   6, Other							[postxcovid] = '1' [covidtx6] = '1'	y
							[postxtst] = '1'	y
1, Upper   2, Deep								
1, Upper   2, Deep								
1, Upper   2, Deep								
1, Upper   2, Deep								
1, Upper   2, Deep								
		number		1	365			y
		number		0	365			y
		number		0	365			y
		number		1	365			y
1, Still Hospitalized   2, Home   3, Rehabilitation Facility		number		0	365		[dcllocation] = '3'	y
							[alive365] = '2' [alive365] = '2'	y
1, Airway dehiscence   2, Airway ischemia/necrosis   3, Bronchial stricture/stenosis requiring intervention   4, recurrent COVID-19   5, post-transplant pneumonia   6, bacteremia   7, septic shock   8, Grade 3 PGD within 72 hours of transplant   9, Pulmonary Embolism   10, Invasive Aspergillosis   11, other							[complication30(11)] = '1'	y
1, Airway dehiscence   2, Airway ischemia/necrosis   3, Bronchial stricture/stenosis requiring intervention   4, recurrent COVID-19   5, post-transplant pneumonia   6, bacteremia   7, septic shock   8, Grade 3 PGD within 72 hours of transplant   9, Pulmonary Embolism   10, Invasive Aspergillosis   11, other							[complication90(11)] = '1'	y
1, Airway dehiscence   2, Airway ischemia/necrosis   3, Bronchial stricture/stenosis requiring intervention   4, recurrent COVID-19   5, post-transplant pneumonia   6, bacteremia   7, septic shock   8, Grade 3 PGD within 72 hours of transplant   9, Pulmonary Embolism   10, Invasive Aspergillosis   11, other							[complication180(11)] = '1'	y
1, Yes   2, No   3, Not yet 180 days post-transplant							[alive365] = '2'	y
		number		1	30		[rejection180] = '1' [rejection180] = '1' [rejection180] = '1' [rejection180] = '1'	y
1, Acute Cellular Rejection   2, Antibody-Mediated Rejection							[more1] = '1' [more1] = '1' [more1] = '1' [more1] = '1'	y
1, Acute Cellular Rejection   2, Antibody-Mediated Rejection							[more2] = '1' [more2] = '1' [more2] = '1' [more2] = '1'	y
1, Acute Cellular Rejection   2, Antibody-Mediated Rejection							[more3] = '1' [more3] = '1'	y
1, Airway dehiscence   2, Airway ischemia/necrosis   3, Bronchial stricture/stenosis requiring intervention   4, recurrent COVID-19   5, post-transplant pneumonia   6, bacteremia   7, septic shock   8, Grade 3 PGD within 72 hours of transplant   9, Pulmonary Embolism   10, Invasive Aspergillosis   11, other							[complication365(11)] = '1'	y
1, Yes   2, No   3, Not yet 365 days post-transplant							[alive365] = '2'	y

		number	1	30		y
1, Acute Cellular Rejection   2, Antibody-Mediated Rejection					[rejection365] = '1'	
					[rejection365] = '1'	
					[rejection365] = '1'	
					[rejection365] = '1'	
1, Acute Cellular Rejection   2, Antibody-Mediated Rejection					[more94] = '1'	
					[more94] = '1'	
					[more94] = '1'	
					[more94] = '1'	
1, Acute Cellular Rejection   2, Antibody-Mediated Rejection					[more95] = '1'	
					[more95] = '1'	
					[more95] = '1'	
					[more95] = '1'	
1, Acute Cellular Rejection   2, Antibody-Mediated Rejection					[more96] = '1'	
					[more96] = '1'	
					[more96] = '1'	
					[more96] = '1'	



