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WDGMC Paediatric Liver Transplant Research Database: Dataset from:. Improving Poor Outcomes of Children With Biliary Atresia in South Africa by Early Referral to Centralized Units.

Fabian, June; Botha, Jean

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REDcap
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van der Schyff F, Terblanche Alberta J, Botha JF. Improving Poor Outcomes of Children With Biliary Atresia in South Africa by Early Referral to Centralized Units. JPGN. 2021; 2(2): e073. DOI: 10.1097/PG9.0000000000000073

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Data Dictionary Codebook

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#	Variable / Field Name	Field Label *Field Note*	Field Attributes (Field Type, Validation, Choices, Calculations, etc.)
Instrument: Demographics (demographics)			
1	[record_id]	Record ID	text, Identifier
2	[data_consent_forms]	data collection consent forms signed	checkbox 0, data_consent_forms___0, consent not given 1, data_consent_forms___1, parents/ legal guardians - children < 18years 2, data_consent_forms___2, assent - children ≥7 years and< 18 years 3, data_consent_forms___3, adult patients ≥ 18 years 4, data_consent_forms___4, donor 5, data_consent_forms___5, patient deceased Field Annotation: @NONEOFTHEABOVE=0
3	[consent_not_given_by] Show the field ONLY if: [data_consent_forms(0)] = '1'	Consent not given by	checkbox 1, consent_not_given_by___1, parents/ legal guardians - children < 18 yrs 2, consent_not_given_by___2, assent - children >= 7years and < 18 yrs 3, consent_not_given_by___3, adult patients >= 18 yrs 4, consent_not_given_by___4, donor
4	[date_consent_refused_prnts] Show the field ONLY if: [consent_not_given_by(1)] = '1'	Date consent refused - parents/ legal guardian	text (date_ymd)
5	[date_assent_refused] Show the field ONLY if: [consent_not_given_by(2)] = '1'	Date assent refused - children >= 7years and < 18 yrs	text (date_ymd)
6	[date_consent_refused_adult] Show the field ONLY if: [consent_not_given_by(3)] = '1'	Date consent refused by adult patient	text (date_ymd)
7	[date_consent_refused_dnr] Show the field ONLY if: [consent_not_given_by(4)] = '1'	Date consent refused - donor	text (date_ymd)
8	[dte_parent_guard_sign] Show the field ONLY if: [data_consent_forms(1)] = '1'	date parent/ guardian signature	text (date_ymd)
9	[prnt_guard_consent_form] Show the field ONLY if: [data_consent_forms(1)] = '1'	parent/ guardian signed consent form	file, Identifier
10	[dte_assent] Show the field ONLY if: [data_consent_forms(2)] = '1'	date assent signature	text (date_ymd)
11	[assent_form] Show the field ONLY if: [data_consent_forms(2)] = '1'	signed assent form	file, Identifier

12	[dte_adults_sign] Show the field ONLY if: [data_consent_forms(3)] = '1'	date of adults >18 years signature	text (date_ymd)
13	[adult_consent_form] Show the field ONLY if: [data_consent_forms(3)] = '1'	adult patients signed consent form	file, Identifier
14	[dte_donor_sign] Show the field ONLY if: [data_consent_forms(4)] = '1'	date of donor signature	text (date_ymd)
15	[donor_consent_form] Show the field ONLY if: [data_consent_forms(4)] = '1'	donor signed consent form	file, Identifier
16	[tx_hosp_no]	hospital number at time of transplant	text (integer), Identifier
17	[paeds_id]	identity number	text, Identifier
18	[surname]	surname, first name/s *use lower case when entering patient's surname*	text, Identifier
19	[dob]	date of birth	text (date_ymd), Identifier
20	[gender]	gender	radio 1 male 2 female
21	[race]	race *Definition: as per STATS SA Survey in Brief 2016: http://cs2016.statssa.gov.za/wp-content/uploads/2016/07/NT-30-06-2016-RELEASE-for-CS-2016-_Statistical-releas_1-July-2016.pdf*	radio 1 black african 2 white 3 indian 4 asian 5 mixed/ coloured 0 unknown/ not recorded
22	[sector]	sector patient referred from	radio, Identifier 1 private sector 2 public sector
23	[public_hosp] Show the field ONLY if: [sector] = '2'	if public sector *CMJAH- Charlotte Maxeke Johannesburg Academic Hospital; SBAH - Steve Biko Hospital: CHBAH - Chris Hani Baragwanath Academic Hospital; RMH - Rahima Moosa Hospital*	radio, Identifier 1 CMJAH 2 SBAH 3 CHBAH 4 RMH 5 other
24	[other_state_hosp] Show the field ONLY if: [public_hosp] = '5'	name of other state hospital	text
25	[demographics_complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
Instrument: Socio-economic and sociological data (ses_distance_calculator_education_marital_status)			
26	[ses_data_collection]	socio economic data collected -	checkbox 0 ses_data_collection___0 none 1 ses_data_collection___1 marital status 2 ses_data_collection___2 education 3 ses_data_collection___3 employment status 4 ses_data_collection___4 SES- socio economic score 5 ses_data_collection___5 distance calculation Field Annotation: @NONEOFTHEABOVE=0

27	[marital_status] Show the field ONLY if: [ses_data_collection(1)] = '1'	Section Header: *Marital status* marital status at first visit *Marital status according to STATS SA: https://www.statssa.gov.za/publications/03-01-06/03-01-062016.pdf page 34 (see REDCap file repository)*	radio 1 legally married 2 living together like husband and wife 3 divorced 4 separated but still legally married 5 widowed 6 single; but have been living together with someone as husband and wife before 7 single and have never been married/ never lived together as husband/wife before 8 unspecified
28	[mom_educ_status] Show the field ONLY if: [ses_data_collection(2)] = '1'	Section Header: *Educational status at first visit* mother's educational status at first visit *Reference: REDCap file repository - Social-Economic Review and Outlook.pdf (Educational Status)*	radio 1 not applicable 2 no schooling 3 grade 0-6 4 grade 7-11 5 certificate/ diploma without matric 6 matric 7 diploma/ certificate 8 undergraduate degree 9 postgraduate degree 10 unknown
29	[dad_educ_status] Show the field ONLY if: [ses_data_collection(2)] = '1'	father's educational status at first visit *Reference: REDCap file repository - Social-Economic Review and Outlook.pdf (Educational Status)*	radio 1 not applicable 2 no schooling 3 grade 0-6 4 grade 7-11 5 certificate/ diploma without matric 6 matric 7 diploma/ certificate 8 undergraduate degree 9 postgraduate degree 10 unknown
30	[employment_mom] Show the field ONLY if: [ses_data_collection(3)] = '1'	Section Header: *Employment status* mother's employment status at first visit	radio 1 employed (either formally or informally) 2 unemployed
31	[employment_dad] Show the field ONLY if: [ses_data_collection(3)] = '1'	father's employment status at first visit	radio 1 employed (either formally or informally) 2 unemployed
32	[occupants_hsehold] Show the field ONLY if: [ses_data_collection(4)] = '1'	Section Header: *Socioeconomic scoring (SES) at time of first visit* Number of occupants in the household	text
33	[ses_wall] Show the field ONLY if: [ses_data_collection(4)] = '1'	Relating to your dwelling: What is the construction materials of the walls?	radio 1 brick 2 cement 3 other modern 4 stabilized mud 5 traditional mud 6 wood 7 other informal

34	[ses_roof] Show the field ONLY if: [ses_data_collection(4)] = '1'	What is the construction material of the roof	radio 1, tiles 2, corrugated iron 3, other modern 4, thatch 5, other informal
35	[ses_floor] Show the field ONLY if: [ses_data_collection(4)] = '1'	what is the construction material of the floor	radio 1, tiles 2, comment 3, modern carpet 4, wood 5, other modern 6, dirt 7, mat 8, other traditional
36	[ses_all_bed] Show the field ONLY if: [ses_data_collection(4)] = '1'	what is the total number of bedrooms in all structures	text (integer, Min: 1, Max: 12)
37	[see_bed_main_struct] Show the field ONLY if: [ses_data_collection(4)] = '1'	what is the total number of bedrooms in the main structure	text (integer, Min: 1, Max: 12)
38	[ses_kitchen] Show the field ONLY if: [ses_data_collection(4)] = '1'	Is there a separate kitchen	yesno 1, Yes 0, No
39	[ses_living] Show the field ONLY if: [ses_data_collection(4)] = '1'	is there a separate living/ dining room	yesno 1, Yes 0, No
40	[ses_toilet] Show the field ONLY if: [ses_data_collection(4)] = '1'	what is the toilet facility	radio 1, in house 2, in yard 3, other house 4, bush
41	[ses_toilet_type] Show the field ONLY if: [ses_data_collection(4)] = '1'	what is the type of toilet	radio 1, modern 2, VIP 3, pit toilet 4, none
42	[see_water_supply] Show the field ONLY if: [ses_data_collection(4)] = '1'	what is the main water supply	radio 1, tap in house 2, tap in yard 3, tap in street 4, truck 5, cement well 6, traditional well 7, pond 8, river 9, dam 10, rainwater tank 11, other
43	[other_main_water_supply] Show the field ONLY if: [see_water_supply] = '11'	describe other main water supply	text

44	[ses_distance_aqua] Show the field ONLY if: [ses_data_collection(4)] = '1'	what is the distance to the main water source	radio 1 immediate (< 50 metres) 2 nearby, but not immediate (50-200 metres) 3 far away (>200 meters)
45	[ses_aqua_avail] Show the field ONLY if: [ses_data_collection(4)] = '1'	what is the availability of the main water supply	radio 1 always 2 most of the time 3 few hours a day 4 irregular. not every day 5 very irregular
46	[ses_power] Show the field ONLY if: [ses_data_collection(4)] = '1'	what is the primary source of power for light and appliances	radio 1 electricity 2 battery/ generator 3 solar power 4 paraffin 5 candles 6 other
47	[other_power] Show the field ONLY if: [ses_power] = '6'	describe other source of power	text
48	[ses_cook] Show the field ONLY if: [ses_data_collection(4)] = '1'	what is the primary source of power for cooking	radio 1 electricity 2 gas bottle 3 paraffin 4 wood 5 other
49	[see_cook_other] Show the field ONLY if: [ses_cook] = '5'	describe other source of cooking power	text
50	[ses_stove] Show the field ONLY if: [ses_data_collection(4)] = '1'	is there a functioning stove in the household	yesno 1 Yes 0 No
51	[ses_fridge] Show the field ONLY if: [ses_data_collection(4)] = '1'	is there a functioning fridge in the household	yesno 1 Yes 0 No
52	[ses_tv] Show the field ONLY if: [ses_data_collection(4)] = '1'	is there a functioning TV and /or hifi/stereo in the household	yesno 1 Yes 0 No
53	[ses_dvd] Show the field ONLY if: [ses_data_collection(4)] = '1'	is there a functioning video machine or Dvd player in the household	yesno 1 Yes 0 No
54	[ses_sat_dish] Show the field ONLY if: [ses_data_collection(4)] = '1'	is there a functioning satellite dish in the household	yesno 1 Yes 0 No
55	[ses_tape] Show the field ONLY if: [ses_data_collection(4)] = '1'	is there a functioning radio (no tape or cd player) in the household	yesno 1 Yes 0 No
56	[ses_landline] Show the field ONLY if: [ses_data_collection(4)] = '1'	Is there a functioning landline phone in the household	yesno 1 Yes 0 No
57	[ses_cell] Show the field ONLY if: [ses_data_collection(4)] = '1'	Is there a functioning cellphone in the household	yesno 1 Yes 0 No

58	[ses_cell_type] Show the field ONLY if: [ses_cell] = '1'	type of cellphone	radio 1 smartphone 2 conventional
59	[ses_car] Show the field ONLY if: [ses_data_collection(4)] = '1'	is there a functioning car/ truck in the household	yesno 1 Yes 0 No
60	[ses_mbike] Show the field ONLY if: [ses_data_collection(4)] = '1'	is there a functioning motor bike in the household	yesno 1 Yes 0 No
61	[ses_bicycle] Show the field ONLY if: [ses_data_collection(4)] = '1'	Is there a functioning bicycle in the household	yesno 1 Yes 0 No
62	[ses_cart] Show the field ONLY if: [ses_data_collection(4)] = '1'	is there a functioning animal drawn cart or sled in the household	yesno 1 Yes 0 No
63	[ses_cattle] Show the field ONLY if: [ses_data_collection(4)] = '1'	How many cattle are owned by the household	radio 1 None 2 1-3 3 4-10 4 more than 10 5 cattle owned but number unknown
64	[ses_goats] Show the field ONLY if: [ses_data_collection(4)] = '1'	How many goats are owned by the household	radio 1 None 2 1-3 3 4-10 4 more than 10 5 cattle owned but number unknown
65	[ses_pigs] Show the field ONLY if: [ses_data_collection(4)] = '1'	How many pigs are owned by the household	radio 1 None 2 1-3 3 4-10 4 more than 10 5 cattle owned but number unknown
66	[ses_sheep] Show the field ONLY if: [ses_data_collection(4)] = '1'	How many sheep are owned by the household	radio 1 None 2 1-3 3 4-10 4 more than 10 5 cattle owned but number unknown
67	[ses_chickens] Show the field ONLY if: [ses_data_collection(4)] = '1'	How many chickens are owned by the household	radio 1 None 2 1-10 3 11-40 4 more than 40 5 chickens owned but number unknown
68	[distance_home_wdgmc] Show the field ONLY if: [ses_data_collection(5)] = '1'	Section Header: *Linear distance from dwelling to WDGMC* straight line distance from patients home to WDGMC *2 decimal places*	text (number_2dp, Min: 1.00, Max: 2000.00)
69	[ses_distance_calculator_education_marital_status_complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
Instrument: Aetiology of liver disease (aetiology_of_liver_disease)			

70	[cause_lvr_failure]	cause of liver failure	radio 1 acute 2 chronic
71	[fulminant_disease] Show the field ONLY if: [cause_lvr_failure] = '1'	Fulminant disease	radio 1 yes 0 no
72	[diagnosis] Show the field ONLY if: [cause_lvr_failure] = '1'	Section Header: *Aetiology of acute liver failure (ALF)* aetiology of acute liver failure (ALF) - fulminant	radio 1 unknown 2 drug/ toxin induced 3 viral infection 4 failed transplant 5 wilson's disease (acute) 7 other
73	[name_drug_toxin] Show the field ONLY if: [diagnosis] = '2'	name of drug/toxin	text
74	[alf_infections] Show the field ONLY if: [diagnosis] = '3'	infections	radio 6 adenovirus 3 EBV 7 enterovirus 1 hepatitis A 2 hepatitis C 4 HSV 8 parvovirus 9 unknown 5 other
75	[other_viral_inf] Show the field ONLY if: [alf_infections] = '5'	Describe 'other' viral infection	text
76	[failed_tx_type] Show the field ONLY if: [diagnosis] = '4'	describe failed transplant	checkbox 1 failed_tx_type___1 primary graft non-function (PGNF) 2 failed_tx_type___2 hepatic artery thrombosis (HAT) 3 failed_tx_type___3 portal vein thrombosis (PVT) 4 failed_tx_type___4 other
77	[failed_tx_type_other] Show the field ONLY if: [failed_tx_type(4)] = '1'	describe 'other' failed transplant type	text
78	[acute_other] Show the field ONLY if: [diagnosis] = '7'	describe other	text
79	[prim_dx_sec_dx] Show the field ONLY if: [cause_lvr_failure] = '2'	Section Header: *Aetiology of chronic liver failure - primary diagnosis* Does this patient have a	checkbox 1 prim_dx_sec_dx___1 primary diagnosis 2 prim_dx_sec_dx___2 secondary diagnosis

80	[aetiology] Show the field ONLY if: [prim_dx_sec_dx(1)] = '1'	aetiology of end stage chronic liver disease	radio 1, unknown 2, alagille syndrome /biliary hypoplasia 3, auto-immune hepatitis (AIH) 25, AIH/PSC overlap syndrome 4, alpha-1 antitrypsin deficiency (α1AD) 5, biliary atresia/ biliary agenesis (BA) 7, budd chiari - veno-occlusive disease (VOD) 8, chronic rejection of liver graft 23, citrullinaemia 9, cryptogenic 19, cystic fibrosis (CF) 10, drug/ toxin induced 21, familial hypercholesterolaemia (FH) 20, hemolytic uremic syndrome (HUS) 11, hepatoblastoma (malignancy) 16, hepatocellular carcinoma (HCC) 12, maple syrup urine disease 13, oxalosis 14, PFIC - progressive familial intrahepatic cholestasis 17, polycystic kidney disease (PCKD) and hepatic fibrosis 24, primary sclerosing cholangitis (PSC) 15, wilson's disease 18, other
81	[other_describe] Show the field ONLY if: [aetiology] = '18'	other - describe	text
82	[chronic_drug_toxin_prim] Show the field ONLY if: [aetiology] = '10'	name of drug/ toxin	text
83	[assoc_features_ba] Show the field ONLY if: [aetiology] = '5'	were there associated features of biliary atresia	checkbox 0, assoc_features_ba___0, none 1, assoc_features_ba___1, portal vein thrombosis (pvt/ pv thrombosis) 2, assoc_features_ba___2, portal vein hypoplasia 3, assoc_features_ba___3, syndromic ba (also known as BASM - ba splenic malformation)
84	[basm_yes] Show the field ONLY if: [assoc_features_ba(3)] = '1'	select appropriate	checkbox 1, basm_yes___1, pre duodenal portal vein 2, basm_yes___2, interrupted IVC 3, basm_yes___3, malrotation of the gut 4, basm_yes___4, polysplenia syndrome 5, basm_yes___5, situs inversus 6, basm_yes___6, other
85	[basm_other_describe] Show the field ONLY if: [basm_yes(6)] = '1'	if BASM is other please describe	text
86	[kasai_pre_tx] Show the field ONLY if: [aetiology] = '5'	did this patient have a kasai procedure pre transplant	radio 1, yes 2, no
87	[date_kasai_proc] Show the field ONLY if: [kasai_pre_tx] = '1'	date of kasai procedure	text (date_ymd)

88	[age_kasai] Show the field ONLY if: [kasai_pre_tx] = '1'	age at time of kasai procedure (days)	calc Calculation: datediff([dob],[date_kasai_proc],"d", "ymd", true)
89	[age_kasai_no_date] Show the field ONLY if: [kasai_pre_tx] = '1'	If the date of the kasai procedure is not available how many weeks old was the child at the time of the procedure (weeks)	text (integer)
90	[comment_acute] Show the field ONLY if: [cause_lvr_failure] = '1'	Comment (acute)	notes
91	[aetiol_chr_disease_dx2] Show the field ONLY if: [prim_dx_sec_dx(2)] = '1'	Section Header: *Aetiology of end stage liver disease - secondary diagnosis* aetiology of end stage chronic liver disease	radio 1, unknown 2, alagille syndrome /biliary hypoplasia 3, auto-immune hepatitis (AIH) 25, AIH/PSC overlap syndrome 4, alpha-1 antitrypsin deficiency (α1AD) 5, biliary atresia/ biliary agenesis (BA) 7, budd chiari - veno-occlusive disease (VOD) 8, chronic rejection of liver graft 23, citrullinaemia 9, cryptogenic 19, cystic fibrosis (CF) 10, drug/ toxin induced 21, familial hypercholesterolaemia (FH) 20, hemolytic uremic syndrome (HUS) 11, hepatoblastoma (malignancy) 16, hepatocellular carcinoma (HCC) 12, maple syrup urine disease 13, oxalosis 14, PFIC - progressive familial intrahepatic cholestasis (PFIC) 17, polycystic kidney disease (PCKD) and hepatic fibrosis 24, primary sclerosis cholangitis (PSC) 15, wilson's disease 18, other
92	[other_describe_dx2] Show the field ONLY if: [aetiol_chr_disease_dx2] = '18'	other - describe	text
93	[chronic_drug_toxin_second] Show the field ONLY if: [aetiol_chr_disease_dx2] = '10'	name of drug/ toxin	text
94	[explant_histology]	Explant histology	file, Identifier
95	[aetiology_of_liver_disease_complete]	Section Header: *Form Status* Complete?	dropdown 0, Incomplete 1, Unverified 2, Complete
Instrument: Blood grouping and pre transplant serology, recipient and donor (pre_transplant_serology)			
96	[recip_blood_group]	Section Header: *Recipient blood group* recipient blood group	radio 1, O 2, A 3, B 4, AB

97	[recip_hiv_screen]	Section Header: *Recipient serology* recipient age at time of HIV test	radio 1 | < 18 months 2 | ≥ 18 months
98	[hiv_elisa] Show the field ONLY if: [recip_hiv_screen] = '2'	was an HIV elisa done	radio 1 | yes 2 | no
99	[date_hiv] Show the field ONLY if: [recip_hiv_pcr] = '1' or [hiv_elisa] = '1' or [less_18mnths_elisa_rapid] = '1'	date of hIV test	text (date_ymd)
100	[recip_hiv] Show the field ONLY if: [hiv_elisa] = '1'	recipient hiv elisa	radio 1 | reactive/ positive 2 | non-reactive/ negative 3 | equivocal 0 | not recorded
101	[recip_hiv_pcr] Show the field ONLY if: [recip_hiv_screen] = '1' or [recip_hiv] = '1'	was an HIV viral load (PCR) done?	radio 1 | yes 2 | no
102	[recip_hiv_vl] Show the field ONLY if: [recip_hiv_pcr] = '1'	was the HIV viral load:	radio 1 | detectable 2 | undetectable
103	[recip_detect_vl] Show the field ONLY if: [recip_hiv_vl] = '1'	if detectable HIV viral load, what was the measurement (log copies/ml)	text
104	[recip_cd_4] Show the field ONLY if: [recip_hiv] = '1'	was a CD4 count done	radio 1 | yes 2 | no
105	[recip_cd4_count] Show the field ONLY if: [recip_cd_4] = '1'	what was the CD4 count (cells/ul)	text (integer, Min: 0, Max: 2000)
106	[less_18mnths_elisa_rapid] Show the field ONLY if: [recip_hiv_pcr] = '2'	was an HIV elisa/rapid done (< 18mnths)	radio 1 | yes 2 | no 3 | not recorded
107	[less_18mnth_elisa_rpd_rslt] Show the field ONLY if: [less_18mnths_elisa_rapid] = '1'	hiv elisa/rapid result	radio 1 | reactive/positive 2 | non-reactive/ negative 3 | equivocal 0 | not recorded
108	[cmv_screen]	Section Header: *CMV testing* recipient age at time of CMV test	radio 1 | < 18 months 2 | ≥ 18 months 0 | no testing
109	[date_cmv] Show the field ONLY if: [cmv_screen] = '1' or [cmv_screen] = '2'	date of CMV test	text (date_ymd)
110	[igg_cmv] Show the field ONLY if: [cmv_screen] = '2'	Section Header: *Recipient CMV* IgG	radio (Matrix) 1 | positive 2 | negative 3 | equivocal 0 | unknown/ not recorded

111	[igm_cmv] Show the field ONLY if: [cmv_screen] = '2'	IgM	radio (Matrix) 1 positive 2 negative 3 equivocal 0 unknown/ not recorded
112	[cmv_vl] Show the field ONLY if: [cmv_screen] = '1' or [igm_cmv] = '1'	was a CMV viral load done	radio 1 yes 2 no
113	[recip_cmv_vl] Show the field ONLY if: [cmv_vl] = '1'	cmv viral load (IU/mL)	text
114	[less_18mnth_cmv_serology] Show the field ONLY if: [cmv_vl] = '2'	was cmv serology done (< 18mnths)	radio 1 yes 2 no 0 no record
115	[less_18_mnth_cmv_igg] Show the field ONLY if: [less_18mnth_cmv_serology] = '1'	Section Header: *Recipient CMV (< 18 months)* IgG	radio (Matrix) 1 positive 2 negative 3 equivocal 0 unknown/ no record
116	[less_18_mnth_cmv_igm] Show the field ONLY if: [less_18mnth_cmv_serology] = '1'	IgM	radio (Matrix) 1 positive 2 negative 3 equivocal 0 unknown/ no record
117	[recip_ebv_screen]	Section Header: *EBV testing* recipient age at time of EBV test	radio 1 < 18 months 2 ≥ 18 months 0 no testing
118	[date_ebv] Show the field ONLY if: [recip_ebv_screen] = '1' or [recip_ebv_screen] = '2'	date of EBV test	text (date_ymd)
119	[igg_ebv] Show the field ONLY if: [recip_ebv_screen] = '2'	Section Header: *Recipient EBV* IgG	radio (Matrix) 1 positive 2 negative 3 equivocal 0 unknown/ not recorded
120	[igm_ebv] Show the field ONLY if: [recip_ebv_screen] = '2'	IgM	radio (Matrix) 1 positive 2 negative 3 equivocal 0 unknown/ not recorded
121	[ebv_vl] Show the field ONLY if: [recip_ebv_screen] = '1' or [igm_ebv] = '1'	was an EBV viral load done	radio 1 yes 2 no
122	[recip_ebv_vl] Show the field ONLY if: [ebv_vl] = '1'	ebv viral load	text
123	[less_18mnth_ebv_serology] Show the field ONLY if: [ebv_vl] = '2'	was ebv serology done (< 18mnths)	radio 1 yes 2 no 0 no record

124	[less_18_mnth_ebv_igg] Show the field ONLY if: [less_18mnth_ebv_serology] = '1'	Section Header: *Recipient EBV (< 18 months)* IgG	radio (Matrix) 1 positive 2 negative 3 equivocal 4 unknown/ no record
125	[less_18_mnth_ebv_igm] Show the field ONLY if: [less_18mnth_ebv_serology] = '1'	IgM	radio (Matrix) 1 positive 2 negative 3 equivocal 4 unknown/ no record
126	[recip_hepb_screen]	Section Header: *Hepatitis B surface and core antigens* recipient age at time of test for hepatitis b surface and core antigens	radio 1 < 18 months 2 ≥ 18 months
127	[pre_hep_b_vl] Show the field ONLY if: [recip_hepb_screen] = '1'	was a hepatitis B viral load done	radio 1 yes 2 no
128	[hep_b_pcr] Show the field ONLY if: [pre_hep_b_vl] = '1'	hepatitis b vl/pcr *the pcr is the test done to establish the viral load*	text
129	[date_hepb] Show the field ONLY if: [recip_hepb_screen] = '2' or [pre_hep_b_vl] = '1' or [less_18mnth_hepb_srlgy] = '1'	date of hepatitis b testing	text (date_ymd)
130	[less_18mnth_hepb_srlgy] Show the field ONLY if: [pre_hep_b_vl] = '2'	If viral load not done was Hep B serology done	radio 1 Yes 2 No
131	[hepb_surf_ag] Show the field ONLY if: [recip_hepb_screen] = '2' or [less_18mnth_hepb_srlgy] = '1'	hepatitis b surface antigens	radio (Matrix) 1 positive 2 negative 3 unknown/ not recorded Field Annotation: HBsAg (Hepatitis B surface antigen) - A "positive" or "reactive" HBsAg test result means that the person is infected with hepatitis B. https://www.hepb.org/prevention-and-diagnosis/diagnosis/hbv-blood-tests/
132	[hepb_surf_ab] Show the field ONLY if: [recip_hepb_screen] = '2' or [less_18mnth_hepb_srlgy] = '1'	hepatitis b surface antibodies	radio (Matrix) 1 positive 2 negative 3 unknown/ not recorded Field Annotation: A positive anti-HBs (or HBsAb) test result means you are "immune" and protected against the hepatitis B virus and cannot be infected. https://www.hepb.org/prevention-and-diagnosis/diagnosis/hbv-blood-tests/
133	[hepb_core_ab] Show the field ONLY if: [recip_hepb_screen] = '2' or [less_18mnth_hepb_srlgy] = '1'	hepatitis b core antibodies	radio (Matrix) 1 positive 2 negative 3 unknown/ not recorded Field Annotation: Hepatitis B Core Antibody (HBcAb or Anti-HBc) - This antibody does not provide any protection or immunity against the hepatitis B virus. A positive or "reactive" test indicates that a person may have been infected with the hepatitis B virus at some point in time. https://www.hepb.org/prevention-and-diagnosis/diagnosis/hbv-blood-tests/

134	[hepb_surf_ag_vl] Show the field ONLY if: [hepb_surf_ag] = '1'	hepatitis b surface antigens positive - VL (viral load)	text
135	[hepb_surf_ab_value] Show the field ONLY if: [hepb_surf_ab] = '1'	hepatitis b surface antibody value (mIU/ml) *If greater (>) than a 1000 enter 1000*	text (number_1dp)
136	[hepb_info]	Section Header: *Hepatitis B information* HBsAg (Hepatitis B surface antigen) - A "positive" or "reactive" HBsAg test result means that the person is infected with hepatitis B. HBsAb - (Hepatitis B surface antibody) - A positive anti-HBs (or HBsAb) test result means you are “immune” and protected against the hepatitis B virus and cannot be infected.HBCAb - Hepatitis B Core Antibody (HBcAb or Anti-HBc) – This antibody does not provide any protection or immunity against the hepatitis B virus. A positive or "reactive" test indicates that a person may have been infected with the hepatitis B virus at some point in time. https://www.hepb.org/prevention-and-diagnosis/diagnosis/hbv-blood-tests/	descriptive
137	[dnr_bld_group]	Section Header: *Donor blood group* donor blood group	radio 1, O 2, A 3, B 4, AB
138	[dnr_serology_date]	Section Header: *Donor Serology* date of donor serology testing	text (date_ymd)
139	[dnr_hiv_elisa]	donor hiv elisa	radio 1, reactive/ positive 2, non-reactive/ negative 3, equivocal 0, unknown/ not recorded
140	[dnr_hiv_vl] Show the field ONLY if: [dnr_hiv_elisa] = '1'	Is the viral load	radio 1, detectable 2, lower than detectable limit 0, no record
141	[dnr_hiv_vl_value] Show the field ONLY if: [dnr_hiv_vl] = '1'	if detectable HIV viral load, what was the measurement (log copies/ml)	text
142	[dnr_cd4_avail] Show the field ONLY if: [dnr_hiv_elisa] = '1'	CD4 count	radio 1, available 2, not done
143	[dnr_cd4] Show the field ONLY if: [dnr_cd4_avail] = '1'	absolute CD4 count (cells/uL) *absolute CD4 now reported as cells/uL, which has the same meaning as the previous units of x10^6/L, but now conforms to international standards.*	text
144	[dnr_cmv_igg]	Section Header: *Donor CMV* IgG	radio (Matrix) 1, positive 2, negative 3, equivocal 0, unknown/not recorded
145	[dnr_cmv_igm]	IgM	radio (Matrix) 1, positive 2, negative 3, equivocal 0, unknown/not recorded

146	[dnr_ebv_igg]	Section Header: *Donor EBV* IgG	radio (Matrix) 1 positive 2 negative 3 equivocal 0 unknown/ not recorded
147	[dnr_ebv_igm]	IgM	radio (Matrix) 1 positive 2 negative 3 equivocal 0 unknown/ not recorded
148	[dnr_hepb_surface_ag]	Section Header: *donor hepatitis b surface and core antibodies* hepatits b surface antigens	radio (Matrix) 1 positive 2 negative 0 unknown/ not recorded
149	[dnr_hepb_core_ab]	hepatitis b core antibodies	radio (Matrix) 1 positive 2 negative 0 unknown/ not recorded
150	[pre_transplant_serology_complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
Instrument: Pre transplant - listing, pelds, melds and nutritional status (listing_pelds_melds_and_nutritional_status)			
151	[listing_lvr_tx]	date of listing for liver transplant	text (date_ymd, Min: 2002-01-01)
152	[age_at_listing]	Age at listing (mnths)	calc Calculation: round(datediff([dob], [listing_lvr_tx],"M"),1)
153	[listing_peld_done]	Section Header: *PELD/ MELD score at the time of listing* PELD/ MELD score for pre transplant listing	radio 3 PELD 1 MELD 2 no/ not available
154	[peld_listing] Show the field ONLY if: [listing_peld_done] = '3'	listing peld score *MELD/PELD exceptions: Cholangiocarcinoma - PELD=28; FAP - PELD=28; HCC - PELD=28; HPS - PELD=28; Portopulmonary HPT - PELD=28; Metabolic diseases (i) urea cycle defects - PELD=30, (ii) Organic aciduria - PELD=30; Oxalosis - PELD=40*	text (integer)
155	[meld_listing] Show the field ONLY if: [listing_peld_done] = '1'	listing meld score *MELD exceptions: Cholangiocarcinoma - MELD=22 ; FAP - MELD=22 ; HCC - MELD=22 ; HPS - MELD=22 ; Portopulmonary HPT - MELD=22 ; Metabolic diseases (i) urea cycle defects - MELD=30 (ii) Organic aciduria - MELD=30 ; Oxalosis - MELD=40*	text (integer)
156	[age_at_tx]	Section Header: *PELD/ MELD at time of transplant* age at transplant - [age_tx]	descriptive
157	[tx_peld_done]	PELD/MELD score at the time of transplant *This score is calculated using the bloods pulled pre transplant operation*	radio 3 PELD 1 MELD 2 no/ not available
158	[peld_transplant] Show the field ONLY if: [tx_peld_done] = '3'	transplant peld score	text (integer)
159	[meld_transplant] Show the field ONLY if: [tx_peld_done] = '1'	transplant meld score (children aged 12 yrs and older)	text (integer)
160	[z_score_age]	Section Header: *Z scores closest to the time of transplant* is the child at time of scoring	radio 1 5 years and younger (60 months or less) 2 greater than 5 years (61 - 216 months)

161	[date_pre_tx_weight] Show the field ONLY if: [z_score_age] = '1' or [z_score_age] = '2'	date of pre transplant weight	text (date_ymd)
162	[weight_age] Show the field ONLY if: [z_score_age] = '1' or [z_score_age] = '2'	age at time of documented weight	calc Calculation: round(datediff([dob], [date_pre_tx_weight],"M"),1)
163	[tx_weight] Show the field ONLY if: [z_score_age] = '1' or [z_score_age] = '2'	patient weight pre transplant (kgs) *to 2 decimal place*	text (number_2dp, Min: 2.00, Max: 100.00)
164	[weight_z_score] Show the field ONLY if: [z_score_age] = '1' or [z_score_age] = '2'	pre-transplant weight z score *2 decimal places. Unable to calculate Z score for weight id child is between 121 and 128 months of age. WHO comment Weight-for-age reference data are not available beyond age 10 because this indicator does not distinguish between height and body mass in an age period where many children are experiencing the pubertal growth spurt and may appear as having excess weight (by weight-for-age) when in fact they are just tall.* *https://www.who.int/growthref/who2007_weight_for_age/en/*	text (number_2dp, Min: -4.00, Max: 4.00)
165	[date_pre_tx_height] Show the field ONLY if: [z_score_age] = '1' or [z_score_age] = '2'	date pre transplant height	text (date_ymd)
166	[height_age] Show the field ONLY if: [z_score_age] = '2' or [z_score_age] = '1'	age at time of documented height	calc Calculation: round(datediff([dob], [date_pre_tx_height],"M"),1)
167	[tx_height] Show the field ONLY if: [z_score_age] = '1' or [z_score_age] = '2'	patient height pre transplant (mtrs) *2 decimal places. This would be the height recorded closest to the time of or at transplant.*	text (number_2dp, Min: 00.50, Max: 2.00)
168	[height_z_score] Show the field ONLY if: [z_score_age] = '1' or [z_score_age] = '2'	pre-transplant height z score *2 decimal places*	text (number_2dp, Min: -5.00, Max: 4.00)
169	[bmi] Show the field ONLY if: [z_score_age] = '1' or [z_score_age] = '2'	BMI	calc Calculation: rounddown([tx_weight]/([tx_height]*[tx_height]),0)
170	[bmi_z_score_pre_tx] Show the field ONLY if: [z_score_age] = '1' or [z_score_age] = '2'	BMI Z-score pre tx *2 decimal places*	text (number_2dp, Min: -4.00, Max: 4.00)
171	[growth_failure] Show the field ONLY if: [z_score_age] = '2'	is there growth failure - applies to children 61-216 months of age (according to the UNOS meld/peld calculator documentation - see bookmarks) *A patient has growth failure (< -2 standard deviation) if either the patient's height is less than or equal to the low height value or the patient's weight is less than or equal to the low weight value. See page 3+4 of the UNOS attachment*	radio 1 yes 2 no 0 unknown/ not recorded
172	[muac_pre_tx] Show the field ONLY if: [z_score_age] = '1'	Was a MUAC done	radio 1 yes 0 no
173	[date_pre_tx_muac] Show the field ONLY if: [muac_pre_tx] = '1'	date pre transplant MUAC	text (date_ymd)
174	[muac_cms] Show the field ONLY if: [muac_pre_tx] = '1'	MUAC measurement (cms) *2 decimal place. This would be the MUAC recorded closest to the time of or at transplant.*	text (number_2dp, Min: 4.00, Max: 25.00)
175	[muac_z_score] Show the field ONLY if: [muac_pre_tx] = '1'	MUAC (mid upper arm circumference) z score pre transplant *2 decimal places*	text (number_2dp, Min: -3.00, Max: 3.00)

176	[listing_pelds_melds_and_nutritional_status_complete]	Section Header: *Form Status* Complete?	dropdown 0, Incomplete 1, Unverified 2, Complete
Instrument: Donor type and living donor data (donor_data)			
177	[donor_type]	donor type	radio 1, deceased donor 2, living donor
178	[living_donor_type] Show the field ONLY if: [donor_type] = '2'	Living donor type	radio 1, RLD 2, NRLD
179	[dnr_cod] Show the field ONLY if: [donor_type] = '1'	donor's cause of death	radio 1, anoxia 2, CVA - cerebro vascular accident 3, trauma 4, other 0, unknown
180	[other_cod] Show the field ONLY if: [dnr_cod] = '4'	describe 'other' cause of death	text
181	[dnr_name] Show the field ONLY if: [donor_type] = '2'	donor's name *use the format - smith, john*	text, Identifier
182	[dnr_hosp_number] Show the field ONLY if: [donor_type] = '2'	donor's hospital number at the time of transplant	text (integer), Identifier
183	[dnr_relationship] Show the field ONLY if: [donor_type] = '2'	relationship of donor to patient	radio 1, mother 2, father 3, aunt 4, uncle 5, altruistic 6, other
184	[dnr_relation_other] Show the field ONLY if: [dnr_relationship] = '6'	describe 'other' relationship	text
185	[dnr_dob] Show the field ONLY if: [donor_type] = '2'	date of birth	text (date_ymd)
186	[dnr_age] Show the field ONLY if: [donor_type] = '2'	donor age at time of transplant (yrs)	calc Calculation: round(datediff([dnr_dob], [lvr_tx_date],"y"),0)
187	[dnr_race] Show the field ONLY if: [donor_type] = '1' or [donor_type] = '2'	donor race *Definition: as per STATS SA Survey in Brief 2016: http://cs2016.statssa.gov.za/wp-content/uploads/2016/07/NT-30-06-2016-RELEASE-for-CS-2016-_Statistical-releas_1-July-2016.pdf*	radio 1, black african 2, white 3, indian 4, asian 5, mixed/ coloured 0, unknown/ not recorded
188	[dnr_gender] Show the field ONLY if: [donor_type] = '1' or [donor_type] = '2'	donor gender	radio 1, male 2, female

189	[dnr_height] Show the field ONLY if: [donor_type] = '2'	donor height *2 decimal places*	text (number_2dp)
190	[dnr_weight] Show the field ONLY if: [donor_type] = '2'	donor weight *1 decimal place*	text (number_1dp, Min: 40.0, Max: 150.0)
191	[dnr_bmi] Show the field ONLY if: [donor_type] = '2'	donor bmi	calc Calculation: rounddown([dnr_weight]/([dnr_height]*[dnr_height]),0)
192	[dnr_cutting_time] Show the field ONLY if: [donor_type] = '2'	donor cutting time	text (datetime_ymd)
193	[dnr_closing_time] Show the field ONLY if: [donor_type] = '2'	donor closing time	text (datetime_ymd)
194	[dnr_op_time] Show the field ONLY if: [donor_type] = '2'	donor - operation time (mins)	calc Calculation: datediff([dnr_cutting_time],[dnr_closing_time],"m","ymd",1,true)
195	[dnr_blood_loss] Show the field ONLY if: [donor_type] = '2'	donor blood loss (mls)	text (integer, Min: 0, Max: 8000) Field Annotation: @HIDDEN
196	[dnr_admission_date] Show the field ONLY if: [donor_type] = '2'	donor admission date	text (date_ymd)
197	[dnr_discharge_date] Show the field ONLY if: [donor_type] = '2'	donor discharge date	text (date_ymd)
198	[dnr_los] Show the field ONLY if: [donor_type] = '2'	donor length of stay (days)	calc Calculation: datediff([dnr_admission_date],[dnr_discharge_date],"d","ymd",true)
199	[dnr_peak_bilirubin] Show the field ONLY if: [donor_type] = '2'	peak serum total bilirubin level (umol/l) *(time period -immediately post op to time of discharge)*	text
200	[dnr_peak_ast] Show the field ONLY if: [donor_type] = '2'	peak serum AST level (umol/l) *(time period -immediately post op to time of discharge)*	text
201	[dnr_peak_alt] Show the field ONLY if: [donor_type] = '2'	peak serum ALT level (umol/l) *(time period -immediately post op to time of discharge)*	text
202	[donor_data_complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
Instrument: Liver transplant (liver_transplant)			
203	[lvr_tx_date]	Section Header: *Transplant information* date of liver transplant	text (date_ymd, Min: 2002-01-01)
204	[age_tx]	age at time of transplant (mnths)	calc Calculation: round(datediff([dob],[lvr_tx_date],"M"),1)
205	[status_1]	was this patient classified as status 1prior to transplantation *Status 1 is the listing category reserved for patients awaiting liver transplantation who are at risk of imminent death.*	radio 1 yes 2 no
206	[tx_number]	this is transplant number	radio 1 1 2 2 3 3

207	[tx_simulect]	was simulect (basiliximab) induction given to this patient	radio 1 yes 2 no 0 unknown
208	[sibil] Show the field ONLY if: [tx_simulect] = '1'	Was this patient enrolled in the SIBIL study *The SIBIL Study: Steroid-free Immunosuppression with Basiliximab Induction in Paediatric Liver Transplant Recipients*	radio 1 yes 2 no
209	[sibil_icf_doc] Show the field ONLY if: [sibil] = '1'	SIBIL informed consent document	file, Identifier
210	[graft_weight]	implant graft weight (kgs) *to 3 decimal places*	text (number_3dp, Min: 0.100, Max: 4.000)
211	[grwr]	graft weight recipient weight ratio (GRWR)	calc Calculation: round(([graft_weight]/[tx_weight])*100, 3)
212	[graft_type]	graft type	radio 1 whole (deceased) 2 split (deceased) 3 reduced (deceased) 4 living donor graft
213	[living_donor_split_type] Show the field ONLY if: [graft_type] = '4'	Living donor split type *Segments 2 and 3 (left lateral segment); Segments 2, 3, and 4 (left lobe)*	radio 1 left lateral 2 total left lobe 3 right tri-segment 0 not recorded
214	[split_organ_type] Show the field ONLY if: [graft_type] = '2'	If a split organ type *Segments 4 through 8 (right lobe); Liver segments 2 and 3 (left lateral segment); Segments 2, 3, and 4 (left lobe)*	radio 1 left lateral 2 right tri-segment 0 no record
215	[extend_criteria_organ] Show the field ONLY if: [graft_type] = '1' or [graft_type] = '2' or [graft_type] = '3' or [graft_type] = '4'	was this organ an expanded criteria organ	radio 1 yes 2 no 0 not recorded
216	[rsn_expand_criteria] Show the field ONLY if: [extend_criteria_organ] = '1'	Reason expanded criteria	radio 1 ABOi 2 RVD discordant 3 other
217	[other_rsn_expand_criteria] Show the field ONLY if: [rsn_expand_criteria] = '3'	Describe other reason for expanded criteria	text
218	[split_co_recipient] Show the field ONLY if: [graft_type] = '2'	Co-recipient of split organ	radio 1 adult recipient 2 paediatric recipient 3 organ discarded 0 unknown
219	[co_recipents_surname] Show the field ONLY if: [split_co_recipient] = '1' or [split_co_recipient] = '2'	co recipients surname	text, Identifier
220	[co_recipients_rc_id] Show the field ONLY if: [split_co_recipient] = '1' or [split_co_recipient] = '2'	co_recipients REDCap ID	text (integer, Min: 1, Max: 3000), Identifier

221	[rsn_organ_discarded] Show the field ONLY if: [split_co_recipient] = '3'	reason organ discarded	radio 1, no 'other' suitable recipient 2, other 0, unknown
222	[other_rsn_discarded] Show the field ONLY if: [rsn_organ_discarded] = '2'	other reason discarded	text
223	[kidney_tx]	did this patient receive a simultaneous kidney transplant	radio 1, yes 2, no
224	[cit]	cold ischaemic time (CIT) (record in the format HH:MM)	text
225	[theatre_time]	theatre time (record in the format HH:MM)	text
226	[firstline_immed_post_tx]	Section Header: *Firstline therapy immediately post transplant* firstline therapy immediately post transplant	checkbox 1, firstline_immed_post_tx___1, steroids 2, firstline_immed_post_tx___2, tacrolimus 3, firstline_immed_post_tx___3, other 4, firstline_immed_post_tx___4, unknown Field Annotation: @NONEOFTHEABOVE=4
227	[other_firstline_post_tx] Show the field ONLY if: [firstline_immed_post_tx(3)] = '1'	describe other firstline therapy post transplant	text
228	[hosp_admit_date]	Section Header: *Admission dates* date admitted to hospital	text (date_ymd, Min: 2002-01-01)
229	[hosp_discharg_date]	date discharged from hospital	text (date_ymd, Min: 2002-01-01)
230	[hosp_days_total]	number of days patient hospitalised	calc Calculation: datediff([hosp_admit_date], [hosp_discharg_date],"d","ymd",true)
231	[icu_admit_date]	date admitted to icu	text (date_ymd, Min: 2002-01-01)
232	[date_icu_hc_final_disch]	date of final discharge from icu/hc post transplant	text (date_ymd)
233	[total_days_icu_hc]	total number of days in icu/hc combined	calc Calculation: datediff([icu_admit_date], [date_icu_hc_final_disch],"d","ymd",true)
234	[immun_post_tx]	immunosuppression at the time of transplant (this information is taken from the transplant register)	checkbox 1, immun_post_tx___1, steroids 2, immun_post_tx___2, tacrolimus (Tac/ FK) 3, immun_post_tx___3, mycophenolate mofetil (MMF) 4, immun_post_tx___4, other 0, immun_post_tx___0, unknown Field Annotation: @HIDDEN
235	[immun_other] Show the field ONLY if: [immun_post_tx(4)] = '1'	immunosuppression - other	text Field Annotation: @HIDDEN
236	[liver_transplant_complete]	Section Header: *Form Status* Complete?	dropdown 0, Incomplete 1, Unverified 2, Complete
Instrument: Post surgery complications (post_surgery_complications)			
237	[relook_p]	were there any surgical re-exploration procedures	radio 1, yes 2, no 0, unknown/ not recorded

238	[date_relook_procedure] Show the field ONLY if: [relook_p] = '1'	date of relook procedure (if a patient has multiple relook procedures only record the date of the initial one)	text (date_ymd)
239	[pnf_p]	primary non-functioning graft?	radio 1 yes 2 no 0 unknown/ not recorded
240	[biliary_comps]	Section Header: *Biliary complications* were there any biliary complications	radio 1 yes 0 no 2 unknown not recorded
241	[biliary_type] Show the field ONLY if: [biliary_comps] = '1'	type of biliary complications (a biloma is the same as a leak)	checkbox 1 biliary_type___1 stricture 2 biliary_type___2 anastomotic leak 3 biliary_type___3 cut surface leak 4 biliary_type___4 blind ending ductal system 5 biliary_type___5 retained stent (stent inserted at tx)
242	[stricture_type] Show the field ONLY if: [biliary_type(1)] = '1'	stricture type	checkbox 1 stricture_type___1 anastomotic 2 stricture_type___2 non-anastomotic 3 stricture_type___3 unspecified Field Annotation: @NONEOFTHEABOVE=3
243	[date_stric_p] Show the field ONLY if: [biliary_type(1)] = '1'	date of diagnosis of stricture	text (date_ymd)
244	[date_anast_leak_p] Show the field ONLY if: [biliary_type(2)] = '1'	date of diagnosis of anastomotic leak	text (date_ymd)
245	[date_cut_surf_leak_p] Show the field ONLY if: [biliary_type(3)] = '1'	date of diagnosis of cut surface leak	text (date_ymd)
246	[date_beds] Show the field ONLY if: [biliary_type(4)] = '1'	date diagnosis - blind ending ductal system	text (date_ymd)
247	[stent] Show the field ONLY if: [biliary_type(5)] = '1'	date of diagnosis of retained stent	text (date_ymd)
248	[enteric_complications]	Section Header: *Enteric complications* were there any small /large bowel leaks/ perforations	radio 1 yes 0 no 2 unknown/ not recorded
249	[date_dx_enteric_comp] Show the field ONLY if: [enteric_complications] = '1'	date of diagnosis of enteric complication	text (date_ymd)
250	[vasc_comps]	Section Header: *Vascular complications* were there any vascular complications	radio 1 yes 0 no 2 unknown/ not recorded

<table>
<tr><td>251</td><td>[vascular_complications]
Show the field ONLY if: [vasc_comps] = '1'</td><td>vascular complications</td><td>checkbox<table><tr><td>1</td><td>vascular_complications___1</td><td>portal vein thrombosis</td></tr><tr><td>2</td><td>vascular_complications___2</td><td>portal vein stenosis</td></tr><tr><td>3</td><td>vascular_complications___3</td><td>portal vein rupture</td></tr><tr><td>4</td><td>vascular_complications___4</td><td>hepatic vein thrombosis</td></tr><tr><td>5</td><td>vascular_complications___5</td><td>hepatic vein stenosis</td></tr><tr><td>6</td><td>vascular_complications___6</td><td>hepatic vein rupture</td></tr><tr><td>7</td><td>vascular_complications___7</td><td>hepatic artery thrombosis</td></tr><tr><td>8</td><td>vascular_complications___8</td><td>hepatic artery stenosis</td></tr><tr><td>9</td><td>vascular_complications___9</td><td>hepatic artery rupture</td></tr><tr><td>11</td><td>vascular_complications___11</td><td>IVC thrombosis</td></tr><tr><td>12</td><td>vascular_complications___12</td><td>IVC stenosis</td></tr><tr><td>10</td><td>vascular_complications___10</td><td>other</td></tr></table></td></tr>
<tr><td>252</td><td>[vas_comp_oth]
Show the field ONLY if: [vascular_complications(10)] = '1'</td><td>describe 'other' vascular complication</td><td>text</td></tr>
<tr><td>253</td><td>[date_pvt_p]
Show the field ONLY if: [vascular_complications(1)] = '1'</td><td>diagnosis date of portal vein thrombosis</td><td>text (date_ymd)</td></tr>
<tr><td>254</td><td>[date_pvs_p]
Show the field ONLY if: [vascular_complications(2)] = '1'</td><td>diagnosis date of portal vein stenosis</td><td>text (date_ymd)</td></tr>
<tr><td>255</td><td>[date_pv_rupture_p]
Show the field ONLY if: [vascular_complications(3)] = '1'</td><td>diagnosis date of portal vein rupture</td><td>text (date_dmy)</td></tr>
<tr><td>256</td><td>[date_hvt_p]
Show the field ONLY if: [vascular_complications(4)] = '1'</td><td>diagnosis date of hepatic vein thrombosis</td><td>text (date_ymd)</td></tr>
<tr><td>257</td><td>[date_hvs_p]
Show the field ONLY if: [vascular_complications(5)] = '1'</td><td>diagnosis date of hepatic vein stenosis</td><td>text (date_ymd)</td></tr>
<tr><td>258</td><td>[date_hvr_p]
Show the field ONLY if: [vascular_complications(6)] = '1'</td><td>diagnosis date of hepatic vein rupture</td><td>text (date_ymd)</td></tr>
<tr><td>259</td><td>[date_hat_p]
Show the field ONLY if: [vascular_complications(7)] = '1'</td><td>diagnosis date of hepatic artery thrombosis</td><td>text (date_ymd)</td></tr>
<tr><td>260</td><td>[date_has_p]
Show the field ONLY if: [vascular_complications(8)] = '1'</td><td>diagnosis date of hepatic artery stenosis</td><td>text (date_ymd)</td></tr>
<tr><td>261</td><td>[date_har_p]
Show the field ONLY if: [vascular_complications(9)] = '1'</td><td>diagnosis date of hepatic artery rupture</td><td>text (date_ymd)</td></tr>
</table>

262	[date_ivc_thromb] Show the field ONLY if: [vascular_complications(11)] = '1'	diagnosis date of IVC thrombosis	text (date_ymd)
263	[date_ivc_sten] Show the field ONLY if: [vascular_complications(12)] = '1'	diagnosis date of IVC stenosis	text (date_ymd)
264	[date_other_vas_comp] Show the field ONLY if: [vascular_complications(10)] = '1'	diagnosis date of 'other' vascular complication	text (date_ymd)
265	[post_surgery_complications_complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
Instrument: Acute rejections occurring in the first year post transplant (acute_rejections_occurring_in_the_first_year_post_)			
266	[abpr_p]	acute biopsy proven rejection occurring in the first year post transplant	radio 1 yes 0 no
267	[biopsy_date_p] Show the field ONLY if: [abpr_p] = '1'	date of biopsy	text (date_ymd)
268	[days_post_transplant] Show the field ONLY if: [abpr_p] = '1'	number of days event occurred post transplant	calc Calculation: roundup(datediff([lvr_tx_date], [biopsy_date_p],"d"))
269	[banff_score] Show the field ONLY if: [abpr_p] = '1'	banff score out of 9 *Only the first rejection episode that occurs in the first year post transplant surgery should be recorded here*	text
270	[amr] Show the field ONLY if: [abpr_p] = '1'	Was this episode an antibody mediated rejection	radio 1 Yes 0 No
271	[rej_episode_comment] Show the field ONLY if: [abpr_p] = '1'	rejection episode: additional biopsies (same event) - use the format: YYYY/MM/DD: banff 3/9 or enter a comment *please document date and BANFF score of all additional biopsies for the same event*	notes
272	[steroid_sensitivity] Show the field ONLY if: [abpr_p] = '1'	steroid sensitivity	radio 1 steroid sensitive 2 steroid resistant 3 steroid treatment not given 0 unknown/ not recorded
273	[acute_rejections_occurring_in_the_first_year_post__complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
Instrument: Infections occurring pre transplant (infections_post_transplant)			
274	[pre_tx_infect_data]	Was pre transplant infection data captured	yesno 1 Yes 0 No
275	[referred_hosp_pre_tx] Show the field ONLY if: [pre_tx_infect_data] = '1'	Was this patient referred from another hospital	radio 1 yes 2 no 0 unknown

276	[screening_pre_tx] Show the field ONLY if: [referred_hosp_pre_tx] = '1'	was screening performed	radio 1 yes 2 no 0 unknown
277	[cre_pre_screening] Show the field ONLY if: [screening_pre_tx] = '1'	CRE pre screening	checkbox 0 cre_pre_screening___0 negative 1 cre_pre_screening___1 NDM1 positive 2 cre_pre_screening___2 KPC positive 3 cre_pre_screening___3 VIM positive 4 cre_pre_screening___4 IMP positive 5 cre_pre_screening___5 Oxa 48 like positive Field Annotation: @NONEOFTHEABOVE=0
278	[pre_tx_hosp] Show the field ONLY if: [pre_tx_infect_data] = '1'	was the patient hospitalised pre transplant (for an indication other than the transplant)	radio 1 yes 2 no 0 unknown/ not recorded
279	[pre_tx_inf] Show the field ONLY if: [pre_tx_hosp] = '1'	was there a laboratory confirmed infection pre-transplant	radio 1 yes 2 no 0 unknown
280	[pre_infect_number] Show the field ONLY if: [pre_tx_inf] = '1'	infectious episodes *defined as infections arising in the same time period*	radio 1 1 2 2 3 3 4 4 5 5 6 6
281	[pre_tx_date_infect] Show the field ONLY if: [pre_tx_inf] = '1'	date of infection (lab confirmed)	text (date_ymd, Min: 2004-01-01)
282	[pre_tx_inf_site] Show the field ONLY if: [pre_tx_inf] = '1'	site of infection	radio 1 pneumonia 2 bloodstream infection 3 peritonitis 4 surgical site infection 5 uti (urinary tract) 6 liver/biliary tract 8 upper respiratory tract infection 7 other
283	[pre_tx_other_inf_site] Show the field ONLY if: [pre_tx_inf_site] = '7'	if other, describe	text
284	[pre_tx_vap] Show the field ONLY if: [pre_tx_inf_site] = '1'	if yes was the pneumonia	radio 1 ventilator associated 2 non-ventilator associated
285	[pre_tx_clabsi] Show the field ONLY if: [pre_tx_inf_site] = '2'	if blood stream infection -was it a CLABSI (central line associated blood stream infection)	radio 1 yes 2 no
286	[pre_tx_cauti] Show the field ONLY if: [pre_tx_inf_site] = '5'	was the uti	radio 1 catheter associated (CAUTI) 2 non catheter associated

287	[bsi_pneum] Show the field ONLY if: [pre_tx_inf_site] = '1' or [pre_tx_inf_site] = '3' or [pre_tx_inf_site] = '4' or [pre_tx_inf_site] = '5' or [pre_tx_inf_site] = '6' or [pre_tx_inf_site] = '8' or [pre_tx_inf_site] = '7'	was there a secondary blood stream infection	radio 1 yes 2 no
288	[pre_tx_device_proc] Show the field ONLY if: [pre_tx_inf] = '1'	was infection due to an invasive device or procedure	radio 1 yes 2 no 3 unknown/ not recorded
289	[pre_tx_dev_proc_type] Show the field ONLY if: [pre_tx_device_proc] = '1'	if yes, device/ procedure	checkbox 1 pre_tx_dev_proc_type___1 surgical procedure 2 pre_tx_dev_proc_type___2 surgical drain 3 pre_tx_dev_proc_type___3 mechanical ventilation 4 pre_tx_dev_proc_type___4 tracheostomy 5 pre_tx_dev_proc_type___5 urinary catheterisation 6 pre_tx_dev_proc_type___6 peripheral iv line 7 pre_tx_dev_proc_type___7 central line (arterial/ venous) 8 pre_tx_dev_proc_type___8 NG (nasogastric) tube
290	[pre_tx_path] Show the field ONLY if: [pre_tx_inf] = '1'	Section Header: *Organisms* pathology - lab confirmed infections occurring pre transplant	checkbox 1 pre_tx_path___1 gram negative 2 pre_tx_path___2 gram positive 3 pre_tx_path___3 fungal 4 pre_tx_path___4 viral 6 pre_tx_path___6 other
291	[pre_tx_gram_neg] Show the field ONLY if: [pre_tx_path(1)] = '1'	if gram negative	checkbox 1 pre_tx_gram_neg___1 enterobacteriaceae 2 pre_tx_gram_neg___2 pseudomonas 3 pre_tx_gram_neg___3 stenotrophomonas 4 pre_tx_gram_neg___4 other 0 pre_tx_gram_neg___0 not reported
292	[pre_tx_enterobac_type] Show the field ONLY if: [pre_tx_gram_neg(1)] = '1'	if an enterobacteriaceae	checkbox 1 pre_tx_enterobac_type___1 klebsiella pneumoniae 2 pre_tx_enterobac_type___2 escherichia coli 3 pre_tx_enterobac_type___3 other
293	[pre_tx_enter_other] Show the field ONLY if: [pre_tx_gram_neg(2)] = '1'	describe other enterobacteriaceae	text
294	[pre_tx_entero_resist] Show the field ONLY if: [pre_tx_gram_neg(1)] = '1'	are the enterobacteriaceae resistant	radio 1 yes 2 no 0 not recorded
295	[pre_tx_resist_type] Show the field ONLY if: [pre_tx_entero_resist] = '1'	if resistant are they	radio 1 ESBL 2 carbapenemase producing
296	[pre_tx_carbapen_test] Show the field ONLY if: [pre_tx_resist_type] = '2'	if carbapenemase-producing have they been tested	radio 1 yes 2 no 0 unknown/ not recorded

297	[carba_gene_pre] Show the field ONLY if: [pre_tx_carbapen_test] = '1'	carbapenamase producing gene	radio 1, oxa 48 gene pcr 2, other
298	[carbapen_gene_pre] Show the field ONLY if: [carba_gene_pre] = '2'	carbapenamase gene	text
299	[pre_tx_pseud] Show the field ONLY if: [pre_tx_gram_neg(2)] = '1'	If pseudomonas, describe	text
300	[pre_tx_steno] Show the field ONLY if: [pre_tx_gram_neg(3)] = '1'	If stenotrophomonas, describe	text
301	[pre_tx_other_gram_neg] Show the field ONLY if: [pre_tx_gram_neg(4)] = '1'	if other gram negative organism, describe	text
302	[pre_tx_gram_pos] Show the field ONLY if: [pre_tx_path(2)] = '1'	if gram positive	checkbox 1, pre_tx_gram_pos___1, clostridium difficile (c diff) 2, pre_tx_gram_pos___2, coagulase negative staph 3, pre_tx_gram_pos___3, staph aureus 4, pre_tx_gram_pos___4, enterococcus faecium 5, pre_tx_gram_pos___5, enterococcus - other than faecium 6, pre_tx_gram_pos___6, other 0, pre_tx_gram_pos___0, not reported
303	[pre_tx_mrsa] Show the field ONLY if: [pre_tx_gram_pos(3)] = '1'	if staph aureus is it a MRSA (methicillin-resistant staphylococcus)	radio 1, yes 2, no
304	[pre_tx_ent_faec] Show the field ONLY if: [pre_tx_gram_pos(5)] = '1'	if enterococcus other than faecium, describe	text
305	[pre_tx_path_other] Show the field ONLY if: [pre_tx_path(6)] = '1'	other organism, describe	text
306	[pre_tx_candida] Show the field ONLY if: [pre_tx_path(3)] = '1'	type of fungal infection	radio 1, candida albicans 3, candida parapsilosis 2, other
307	[pre_tx_non_albicans_type] Show the field ONLY if: [pre_tx_candida] = '2'	'other' fungal infection - describe	text
308	[virus_pre_tx] Show the field ONLY if: [pre_tx_path(4)] = '1'	viral infections	checkbox 5, virus_pre_tx___5, adenovirus 1, virus_pre_tx___1, CMV (cytomegalovirus 2, virus_pre_tx___2, EBV (epstein barr virus) 10, virus_pre_tx___10, enterovirus 3, virus_pre_tx___3, HSV 1/2 (herpes simplex virus) 4, virus_pre_tx___4, HHV6 9, virus_pre_tx___9, influenza A 7, virus_pre_tx___7, rhinovirus 8, virus_pre_tx___8, RSV 6, virus_pre_tx___6, other
309	[other_virus_pre_tx] Show the field ONLY if: [virus_pre_tx(6)] = '1'	'other' virus, describe	text

310	[comment_pre_tx]	Section Header: *Additional comments* Comment	notes
311	[infections_post_transplant_complete]	Section Header: *Form Status* Complete?	dropdown 0, Incomplete 1, Unverified 2, Complete
Instrument: Infections occurring post transplant (infections_occurring_post_transplant_2)			
312	[post_tx_infect_data]	was post transplant infection data captured	yesno 1, Yes 0, No
313	[inf_post_tx] Show the field ONLY if: [post_tx_infect_data] = '1'	did this patient have an infection post transplant	radio 1, yes 2, no
314	[post_tx_inf] Show the field ONLY if: [inf_post_tx] = '1'	was this a laboratory confirmed infection	radio 1, yes 2, no (if no, do not enter any data) 0, unknown
315	[post_tx_discharge] Show the field ONLY if: [post_tx_inf] = '1'	did the infection occur	radio 1, before transplant discharge 2, after transplant discharge 0, unknown
316	[add_imnsupp] Show the field ONLY if: [inf_post_tx] = '1'	was additional immunosuppression administered prior to this infection	radio 1, yes 2, no 0, unknown
317	[indication_add_imnsupp] Show the field ONLY if: [add_imnsupp] = '1'	if yes, what was the indication *Definitions: ABOi - abo incompatibility; BPAR - biopsy proven rejection; AIH- auto immune hepatitis.*	radio 1, ABOi 2, Antibody mediated rejection 3, BPAR 4, recurrence of AIH 5, other
318	[bpar_sr] Show the field ONLY if: [indication_add_imnsupp] = '3'	BPAR, if yes was there steroid resistance *BPAR - biopsy proven rejection*	radio 1, yes 2, no
319	[indication_add_other] Show the field ONLY if: [indication_add_imnsupp] = '5'	'other ' indication for additional immunosuppression	text
320	[post_infect_episode] Show the field ONLY if: [post_tx_inf] = '1'	infectious episode post transplant *defined as infections arising in the same period of time*	radio 1, 1 2, 2 3, 3 4, 4 5, 5 6, 6 7, 7 8, 8 9, 9 10, 10
321	[post_tx_infect_date] Show the field ONLY if: [post_tx_inf] = '1'	date of laboratory confirmed infection	text (date_ymd, Min: 2004-01-01)

322	[post_tx_admissions] Show the field ONLY if: [post_tx_discharge] = '2'	For this infection, how many admissions occurred after discharge post transplant surgery	radio 1, 1 2, 2 3, 3 4, more than 3 0, unknown
323	[post_tx_inf_site] Show the field ONLY if: [post_tx_inf] = '1'	site of infection	radio 2, bloodstream infection 9, GIT (gastro-intestinal tract) 6, liver/biliary tract 3, peritonitis/ peritoneal cavity 1, pneumonia 4, surgical site infection 8, upper respiratory tract infection 5, uti (urinary tract) 7, other
324	[post_tx_other_inf_site] Show the field ONLY if: [post_tx_inf_site] = '7'	if the infection site is other, describe	text
325	[post_tx_vap] Show the field ONLY if: [post_tx_inf_site] = '1'	if pneumonia was it	radio 1, ventilator associated 2, non-ventilator associated
326	[post_tx_clabsi] Show the field ONLY if: [post_tx_inf_site] = '2'	if a blood stream infection -was it a CLABSI (central line associated blood stream infection)	radio 1, yes 2, no
327	[post_tx_cauti] Show the field ONLY if: [post_tx_inf_site] = '5'	was the uti	radio 1, catheter associated (CAUTI) 2, non catheter associated
328	[bsi_pneum_post_tx] Show the field ONLY if: [post_tx_inf_site] = '1' or [post_tx_inf_site] = '3' or [post_tx_inf_site] = '4' or [post_tx_inf_site] = '5' or [post_tx_inf_site] = '6' or [post_tx_inf_site] = '7' or [post_tx_inf_site] = '8' or [post_tx_inf_site] = '9'	was there a secondary blood stream infection	radio 1, yes 2, no 3, not applicable
329	[post_tx_device_proc] Show the field ONLY if: [post_tx_inf] = '1'	was infection due to an invasive device or procedure	radio 1, yes 2, no 3, unknown/ not recorded
330	[post_tx_dev_proc_type] Show the field ONLY if: [post_tx_device_proc] = '1'	if yes, device/ procedure	checkbox 1, post_tx_dev_proc_type___1, surgical procedure 2, post_tx_dev_proc_type___2, surgical drain 3, post_tx_dev_proc_type___3, mechanical ventilation 4, post_tx_dev_proc_type___4, tracheostomy 5, post_tx_dev_proc_type___5, urinary catheterisation 6, post_tx_dev_proc_type___6, peripheral iv line 7, post_tx_dev_proc_type___7, central line (arterial/ venous) 8, post_tx_dev_proc_type___8, NG tube (nasogastric)

331	[post_tx_path] Show the field ONLY if: [post_tx_inf] = '1'	Section Header: *Organisms* pathology - lab confirmed infections occurring post transplant *Definition for multiple infectious events -each must have a positive lab culture and there must be ≥ 28 days between the end of one event and the start of another event*	checkbox 1 post_tx_path___1 gram negative 2 post_tx_path___2 gram positive 3 post_tx_path___3 fungal 4 post_tx_path___4 viral 5 post_tx_path___5 other
332	[post_tx_gram_neg] Show the field ONLY if: [post_tx_path(1)] = '1'	if gram negative	checkbox 1 post_tx_gram_neg___1 enterobacteriaceae 2 post_tx_gram_neg___2 pseudomonas 3 post_tx_gram_neg___3 stenotrophomonas 4 post_tx_gram_neg___4 other 0 post_tx_gram_neg___0 not reported
333	[post_tx_enterobac_type] Show the field ONLY if: [post_tx_gram_neg(1)] = '1'	if an enterobacteriaceae	checkbox 1 post_tx_enterobac_type___1 klebsiella pneumonia 2 post_tx_enterobac_type___2 escherichia coli 3 post_tx_enterobac_type___3 other
334	[post_tx_entero_other] Show the field ONLY if: [post_tx_enterobac_type(3)] = '1'	describe other enterobacteriaceae	text
335	[post_tx_entero_resist] Show the field ONLY if: [post_tx_gram_neg(1)] = '1'	are the enterobacteriaceae resistant	radio 1 yes 2 no 0 not recorded
336	[post_tx_resist_type] Show the field ONLY if: [post_tx_entero_resist] = '1'	if resistant are they	checkbox 1 post_tx_resist_type___1 ESBL 2 post_tx_resist_type___2 carbapenemase producing
337	[post_tx_carbapen_test] Show the field ONLY if: [post_tx_resist_type(2)] = '1'	if carbapenemase-producing have they been tested	radio 1 yes 2 no 0 unknown/ not recorded
338	[carba_gene_post] Show the field ONLY if: [post_tx_carbapen_test] = '1'	carbapenamase producing gene	radio 1 oxa 48 gene pcr 2 other
339	[carba_other_post] Show the field ONLY if: [carba_gene_post] = '2'	carbapenamase gene	text
340	[post_tx_pseud] Show the field ONLY if: [post_tx_gram_neg(2)] = '1'	If pseudomonas, describe	text
341	[post_tx_steno] Show the field ONLY if: [post_tx_gram_neg(3)] = '1'	if stenotrophomonas, describe	text
342	[post_tx_other_gram_neg] Show the field ONLY if: [post_tx_gram_neg(4)] = '1'	if other gram negative organism, describe	text

343	[post_tx_gram_pos] Show the field ONLY if: [post_tx_path(2)] = '1'	if gram positive	checkbox 1 post_tx_gram_pos___1 clostridium difficile (c diff) 2 post_tx_gram_pos___2 coagulase negative staph 3 post_tx_gram_pos___3 staph aureus 4 post_tx_gram_pos___4 enterococcus faecium 5 post_tx_gram_pos___5 enterococcus - other than faecium 6 post_tx_gram_pos___6 other 0 post_tx_gram_pos___0 not reported
344	[post_tx_mrsa] Show the field ONLY if: [post_tx_gram_pos(3)] = '1'	if staph aureus is it a MRSA (methicillin-resistant staphylococcus)	radio 1 yes 2 no
345	[post_tx_candida] Show the field ONLY if: [post_tx_path(3)] = '1'	type of fungal infection	radio 1 candida albicans 3 candida parapsilosis 2 other
346	[post_tx_non_albicans_type] Show the field ONLY if: [post_tx_candida] = '2'	fungal infection 'other', describe	text
347	[virus_post_tx] Show the field ONLY if: [post_tx_path(4)] = '1'	viral infections	checkbox 5 virus_post_tx___5 adenovirus 1 virus_post_tx___1 CMV (cytomegalovirus) 2 virus_post_tx___2 EBV (epstein barr virus) 9 virus_post_tx___9 enterovirus 3 virus_post_tx___3 HSV 1/2 (herpes simplex virus) 4 virus_post_tx___4 HHV6 10 virus_post_tx___10 influenza A 7 virus_post_tx___7 rhinovirus 8 virus_post_tx___8 RSV 6 virus_post_tx___6 other
348	[post_tx_path_other] Show the field ONLY if: [post_tx_path(5)] = '1'	'other' pathology, describe	text
349	[other_virus_post_tx] Show the field ONLY if: [virus_post_tx(6)] = '1'	'other' virus, describe	text
350	[comment_post_tx]	Section Header: *Additional comments* Comment	notes
351	[infections_occurring_post_transplant_2_complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
Instrument: Antibody titres (antibody_titres)			
352	[ab_test_date] Show the field ONLY if: [rsn_expand_criteria] = '1'	Ab titre test date	text (date_ymd)
353	[anti_a_titre] Show the field ONLY if: [rsn_expand_criteria] = '1'	anti A titre	text
354	[anti_b_titre] Show the field ONLY if: [rsn_expand_criteria] = '1'	anti B titre	text

355	[antibody_titres_complete]	Section Header: *Form Status* Complete?	dropdown 0, Incomplete 1, Unverified 2, Complete
Instrument: TAC trough levels (from 04/03/2019) (tac_trough_levels)			
356	[unique_id]	Vermaak unique identifier	text, Identifier
357	[date_of_transplant_lvr_tx]	Date of transplant - [lvr_tx_date]	descriptive
358	[date_sample_taken]	Date sample taken	text (date_ymd)
359	[tac_days_post]	Number of days post transplant	calc Calculation: datediff ([lvr_tx_date], [date_sample_taken],"d","ymd",true)
360	[time_blood_draw]	Time of blood draw	text (time)
361	[tac_trough_level]	Trough level (ng/ml) *1 decimal place*	text (number_1dp, Min: 0.1, Max: 50.0)
362	[tac_dosage]	TAC dosage (mg) *1 decimal place*	text (number_1dp, Min: 00.0, Max: 15.0)
363	[date_last_dose]	Date of last dose	text (date_ymd)
364	[time_last_dose]	Time of last dose	text (time)
365	[trough_number_of_hours]	Trough - number of hours *record as HH:MM*	text
366	[tac_trough_dose]	C/D ratio (tac concentration/dose adjusted weight)	calc Calculation: round([tac_trough_level]/([tac_dosage]/[tx_weight]),1)
367	[tac_trough_levels_complete]	Section Header: *Form Status* Complete?	dropdown 0, Incomplete 1, Unverified 2, Complete
Instrument: serum creatinine and urea (serum_urea_and_creatinine)			
368	[date_s_creat_urea]	Date s-creatinine and urea	text (date_ymd)
369	[time_s_creat_urea]	Time s-creat and urea	text (time)
370	[s_creat]	Serum creatinine (umol/l)	text (number)
371	[s_urea]	Serum urea (mol/l) *1 decimal place*	text (number_1dp)
372	[serum_urea_and_creatinine_complete]	Section Header: *Form Status* Complete?	dropdown 0, Incomplete 1, Unverified 2, Complete
Instrument: Genotyping (genotyping)			
373	[genotyping]	Was genotyping done	yesno 1, Yes 0, No
374	[was_this_altbio_sample_col] Show the field ONLY if: [genotyping] = '1'	Was this ALTBio sample collected from the	radio 1, donor 2, recipient
375	[altbio_number] Show the field ONLY if: [genotyping] = '1'	ALTBio number	text
376	[cyp2c9] Show the field ONLY if: [genotyping] = '1'	CYP2C9	text
377	[cyp2c19] Show the field ONLY if: [genotyping] = '1'	CYP2C19	text
378	[cyp3a4] Show the field ONLY if: [genotyping] = '1'	CYP3A4	text

379	[cyp3a5] Show the field ONLY if: [genotyping] = '1'	CYP3A5	text
380	[cyp2d6] Show the field ONLY if: [genotyping] = '1'	CYP2D6	text
381	[cyp1a2] Show the field ONLY if: [genotyping] = '1'	CYP1A2	text
382	[cyp2b6] Show the field ONLY if: [genotyping] = '1'	cyp2b6	text
383	[genotyping_complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
Instrument: Post transplant Z scores (post_transplant_z_scores)			
384	[post_tx_z_scores]	Section Header: *All Z scores done in the first 3 year post transplant must be captured (ie weight, height and MUAC when available and where applicable). Measurements should be at least 7 days(1 week) apart. If there are consecutive recordings select the most complete ie with height, weight and z-score, where applicable. or alternately select the last recording of the batch.* were post transplant Z scores calculated	radio 1 yes 2 no (no record) 3 not applicable (eg death or state patient)
385	[post_tx_z_score_date] Show the field ONLY if: [post_tx_z_scores] = '1'	date of z score calculations	text (date_ymd)
386	[post_tx_age_calc] Show the field ONLY if: [post_tx_z_scores] = '1'	age at time of calculation (months) *This calculation only applies to children up to 60 month of age*	calc Calculation: round(datediff([dob], [post_tx_z_score_date],"M"),1)
387	[mnths_post_tx] Show the field ONLY if: [post_tx_z_scores] = '1'	months post transplant	calc Calculation: round(datediff([lvr_tx_date], [post_tx_z_score_date],"M"),true,1)
388	[post_tx_score_age] Show the field ONLY if: [post_tx_z_scores] = '1'	age of the child at time of scoring	radio 1 5 years and younger (60 months or less) 2 greater than 5 years (61 - 216 months)
389	[hght_wght_post_tx] Show the field ONLY if: [post_tx_score_age] = '1' or [post_tx_score_age] = '2'	Section Header: *Height and weight* height/ weight and BMI scores done	radio 1 yes 2 no
390	[date_hght_wght_post_tx] Show the field ONLY if: [hght_wght_post_tx] = '1'	date of height and weight post transplant	text (date_ymd)
391	[post_tx_age_calc_for_bmi] Show the field ONLY if: [hght_wght_post_tx] = '1'	age at time of calculation (months) *Child should be more that 5yrs of age , that is 61 months of age or older*	calc Calculation: round(datediff([dob], [date_hght_wght_post_tx],"M"),1)
392	[post_tx_weight] Show the field ONLY if: [hght_wght_post_tx] = '1'	weight (kgs) *2 decimal places*	text (number_2dp, Min: 3.00, Max: 120.00)
393	[post_tx_weight_z_score] Show the field ONLY if: [hght_wght_post_tx] = '1'	weight Z score *2 decimal places. Unable to calculate Z score for weight id child is between 121 and 128 months of age. WHO comment Weight-for-age reference data are not available beyond age 10 because this indicator does not distinguish between height and body mass in an age period where many children are experiencing the pubertal growth spurt and may appear as having excess weight (by weight-for-age) when in fact they are just tall.* *https://www.who.int/growthref/who2007_weight_for_age/en/*	text (number_2dp)
394	[post_tx_height] Show the field ONLY if: [hght_wght_post_tx] = '1'	height (metres) *2 decimal places*	text (number_2dp, Min: 0.50, Max: 1.99)
395	[post_tx_height_z_score] Show the field ONLY if: [hght_wght_post_tx] = '1'	height z score *2 decimal places*	text (number_2dp)

396	[bmi_post_tx] Show the field ONLY if: [hght_wght_post_tx] = '1'	BMI	calc Calculation: rounddown([post_tx_weight]/([post_tx_height]*[post_tx_height]),0)
397	[bmi_z_score_post_tx] Show the field ONLY if: [post_tx_score_age] = '1' or [post_tx_score_age] = '2'	BMI Z-score post transplant *2 decimal places*	text (number_2dp, Min: -4.00, Max: 4.00)
398	[muac_done] Show the field ONLY if: [post_tx_score_age] = '1'	Section Header: *MUAC* MUAC scores done	radio 1 yes 2 no
399	[date_muac_score] Show the field ONLY if: [muac_done] = '1'	date of MUAC score - [post_tx_z_score_date]	descriptive
400	[post_tx_muac] Show the field ONLY if: [muac_done] = '1'	MUAC - mid upper arm circumference (cms) *2 decimal places*	text (number_2dp, Min: 3.00, Max: 30.00)
401	[post_tx_muac_z_score] Show the field ONLY if: [muac_done] = '1'	MUAC z score *2 decimal places*	text (number_2dp)
402	[post_transplant_z_scores_complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
Instrument: Graft and patient survival (graft_and_patient_survival)			
403	[ptld_post_tx]	Section Header: *PTLD (post-transplant lymphoproliferative disorder)* has this patient developed PTLD (post-transplant lymphoproliferative disorder)	radio 1 yes 2 no 0 unknown / not recorded
404	[ptld_histo] Show the field ONLY if: [ptld_post_tx] = '1'	histology report - PTLD	file, Identifier
405	[ptsd_date_histo_dx] Show the field ONLY if: [ptld_post_tx] = '1'	PTLD date of histological diagnosis	text (date_ymd)
406	[pltd_ebv] Show the field ONLY if: [ptld_post_tx] = '1'	EBV status at time of PTLD diagnosis	radio 1 postitive 2 negative 0 unknown/ not recorded
407	[pltd_comment] Show the field ONLY if: [ptld_post_tx] = '1'	Comment:	notes
408	[kaposi_post_tx]	Section Header: *Kaposi sarcoma* did this patient develop kaposi sarcoma post transplant	radio 1 yes 2 no 0 unknown / not recorded
409	[kaposi_date_histo_dx] Show the field ONLY if: [kaposi_post_tx] = '1'	kaposi sarcoma - date of histological diagnosis	text (date_ymd)
410	[kaposi_histo] Show the field ONLY if: [kaposi_post_tx] = '1'	histology report - Kaposi sarcoma	file, Identifier
411	[deceased]	Section Header: *Patient survival* is the patient deceased	radio 1 yes 2 no

412	[ltfu] Show the field ONLY if: [deceased] = '2'	if alive are they lost to follow up	yesno 1 Yes 0 No
413	[pat_date_last_seen] Show the field ONLY if: [deceased] = '2'	if alive, on what date was the patient last seen? (this is either the loss to follow up date OR the most recent date the patient was seen)	text (date_ymd, Min: 2002-01-01)
414	[date_of_death] Show the field ONLY if: [deceased] = '1'	if deceased what was the date of death	text (date_ymd, Min: 2002-01-01)
415	[pm_done] Show the field ONLY if: [deceased] = '1'	was a PM done	radio 1 yes 2 no 0 unknown
416	[type_of_pm] Show the field ONLY if: [pm_done] = '1'	type of PM	radio 1 anatomical pathology 2 medico-legal
417	[pm_report] Show the field ONLY if: [pm_done] = '1' or [type_of_pm] = '1'	post mortem report	file, Identifier
418	[cause_death] Show the field ONLY if: [deceased] = '1'	cause of death	checkbox 1 cause_death___1 infection/ sepsis 2 cause_death___2 multi-organ failure 3 cause_death___3 cardiopulmonary 4 cause_death___4 PTLD - post transplant lymphoproliferative disease 5 cause_death___5 recurrent tumour 6 cause_death___6 haemorrhage 7 cause_death___7 graft failure 8 cause_death___8 other 0 cause_death___0 unknown/ not recorded
419	[recip_other_cod] Show the field ONLY if: [cause_death(8)] = '1'	recipient - 'other' cause of death	text
420	[lv_graft_failure]	Section Header: *liver transplant - graft survival* has the liver graft failed	radio 1 yes 2 no
421	[graft_loss_date] Show the field ONLY if: [lv_graft_failure] = '1'	if liver graft failed, what was the date of graft loss (this is either date of death or date of retransplant)	text (date_ymd, Min: 2002-01-01)
422	[ltfu_liver] Show the field ONLY if: [lv_graft_failure] = '2'	if liver functioning is the patient lost to follow-up	yesno 1 Yes 0 No
423	[date_liver_graft_surv] Show the field ONLY if: [lv_graft_failure] = '2'	date patient last seen with a functioning liver graft	text (date_ymd, Min: 2002-01-01)
424	[kidney_graft_failure] Show the field ONLY if: [kidney_tx] = '1'	Section Header: *Kidney graft survival* has the kidney graft failed	radio 1 yes 2 no
425	[kidney_loss_date] Show the field ONLY if: [kidney_graft_failure] = '1'	if the kidney graft failed, what was the date of graft loss (this includes date of death, or retransplant of kidney, or recommencement of chronic dialysis)	text (date_ymd, Min: 2002-01-01)

426	[gft_loss] Show the field ONLY if: [lv_graft_failure] = '1' or [kidney_graft_failure] = '1'	Graft loss	radio 0 unknown 1 death 2 re-transplant 3 commencement of dialysis
427	[ltfu_kidney] Show the field ONLY if: [kidney_graft_failure] = '2'	if kidney is functioning is the patient lost to follow-up	yesno 1 Yes 0 No
428	[date_kidney_graft_surv] Show the field ONLY if: [kidney_graft_failure] = '2'	date patient last seen with a functioning kidney graft	text (date_ymd, Min: 2002-01-01)
429	[graft_and_patient_survival_complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
Instrument: Patient follow up information (patient_follow_up_information)			
430	[f_u_info]	follow up information *#3 - not collected would be in the case of children who are deceased or LTFU*	radio 1 available 2 not available 3 not collected
431	[sector_follow_up] Show the field ONLY if: [f_u_info] = '1'	in which sector is the patient being followed up	radio 1 private 2 public
432	[public_sector_f_u] Show the field ONLY if: [sector_follow_up] = '2'	if the public sector *CMJAH- Charlotte Maxeke Johannesburg Academic Hospital; SBAH - Steve Biko Academic Hospital: CHBAH - Chris Hani Baragwanath Academic Hospital; RMH - Rahima Moosa Hospital*	radio 1 CMJAH 2 CHBAH 3 SBAH 4 RMH 5 Tshwane Academic Hospital 6 Nkosi Albert Luthuli Hospital 7 Redcross Childrens Hospital
433	[private_sect_f_u] Show the field ONLY if: [sector_follow_up] = '1'	If the private sector which doctor	radio, Identifier 1 bobat, b 4 gottlich, e 2 mahomed, a 5 terblanche, a 3 other 0 unknown /not recorded
434	[pvt_sect_other_dr] Show the field ONLY if: [private_sect_f_u] = '3'	private sector, other doctor - name	text
435	[comment_survival]	Comment:	notes
436	[patient_follow_up_information_complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
Instrument: COVID-19 (covid19)			
437	[lab_confirm_cvd_dx]	Section Header: *Only positive laboratory confirmed results must be entered here.* Has this patient had laboratory confirmation of COVID 19	radio 1 yes
438	[covid_dx_dte]	date of diagnosis	text (date_ymd)
439	[covid_comment]	Comment:	notes

440	[covid19_complete]	Section Header: *Form Status* Complete?	dropdown 0, Incomplete 1, Unverified 2, Complete