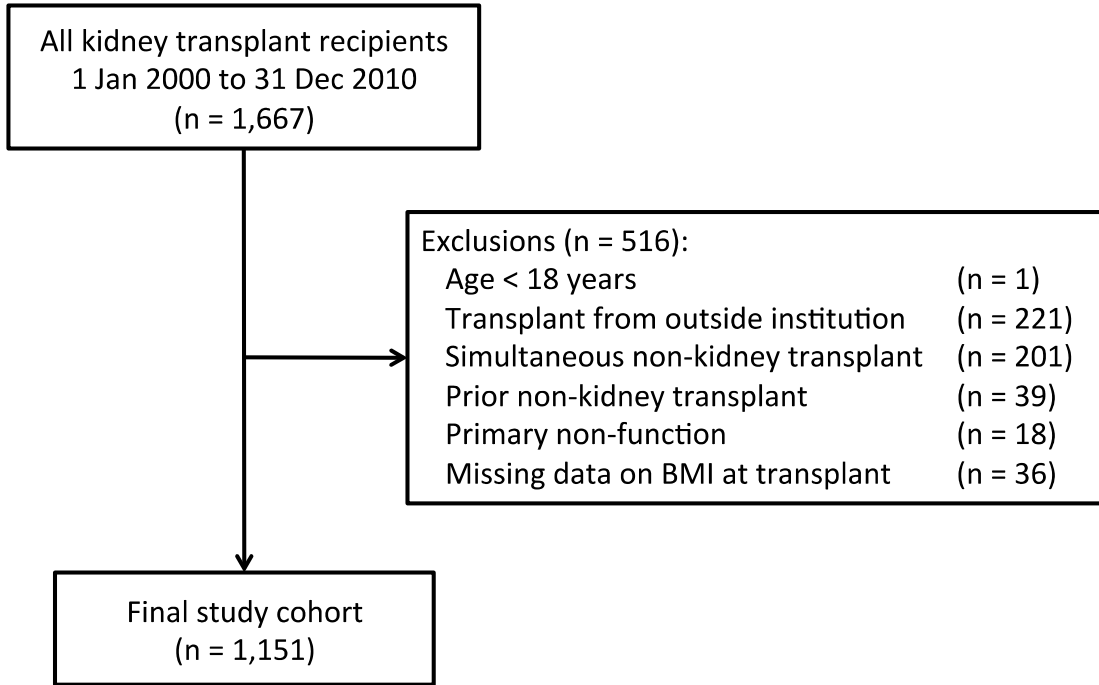
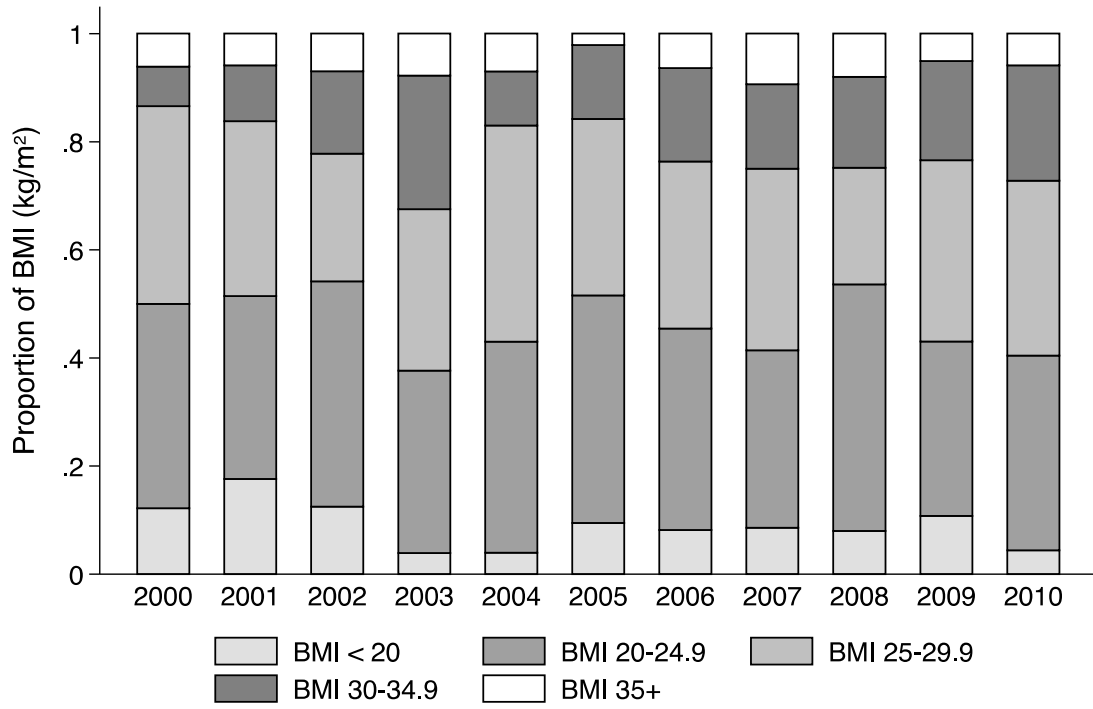


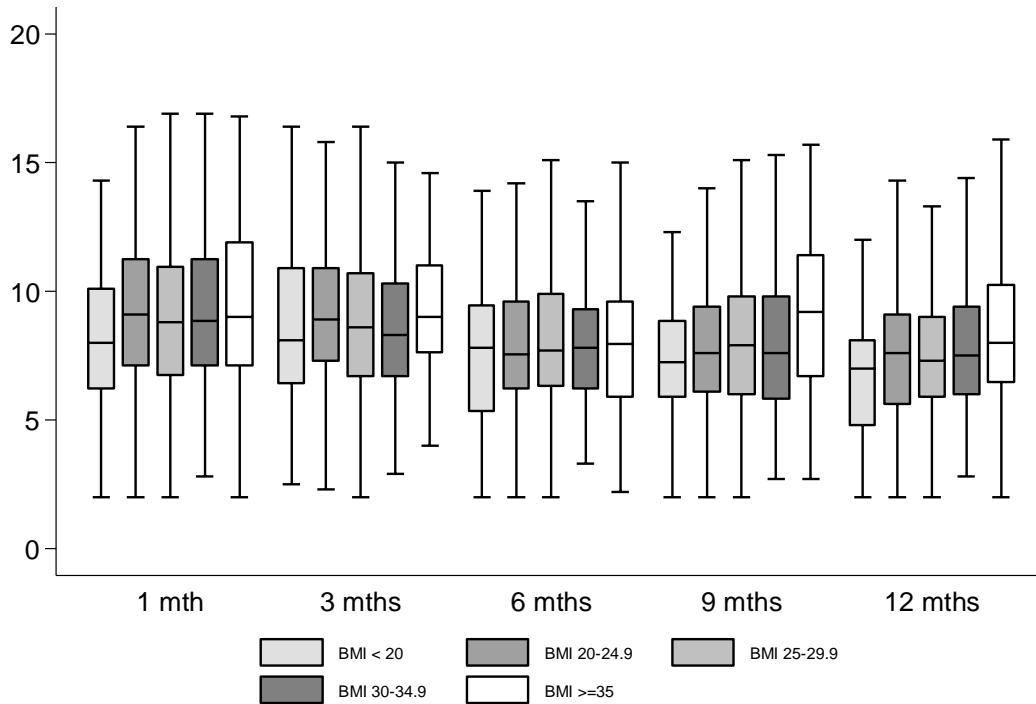
Supplemental Digital Content (SDC) 1: Study Flow Diagram



SDC 2: Proportion of Patients in Different Body Mass Index Categories by Year of Transplant

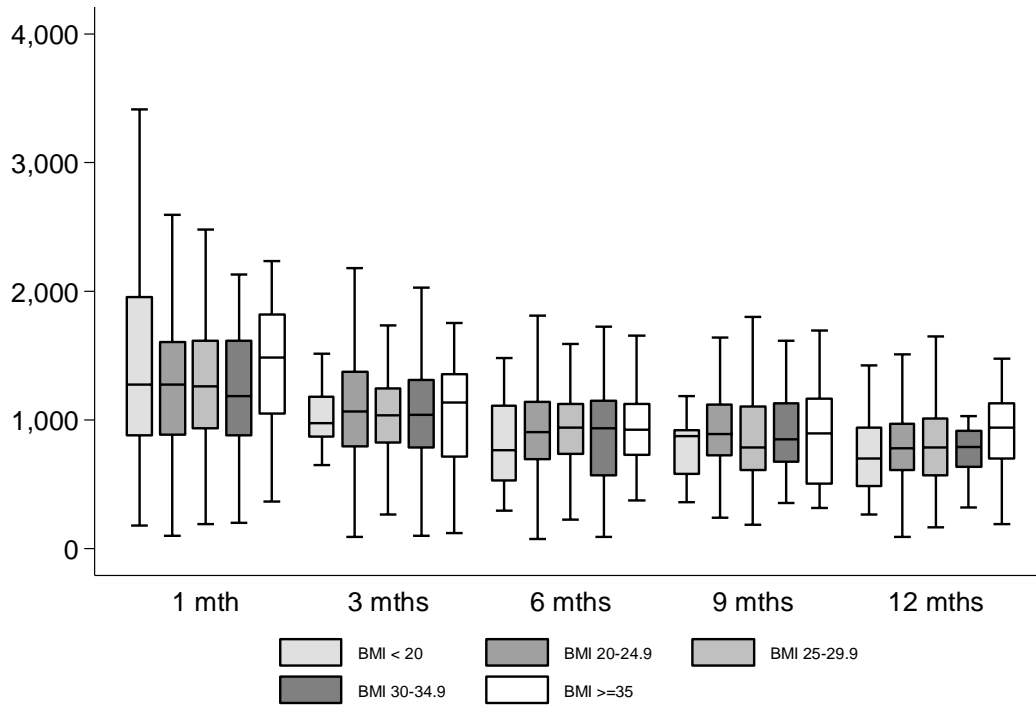


SDC 3: Side-by-Side Boxplots of Tacrolimus Trough Levels (ng/mL) Over the First Year Post-Transplant Stratified by Body Mass Index Category



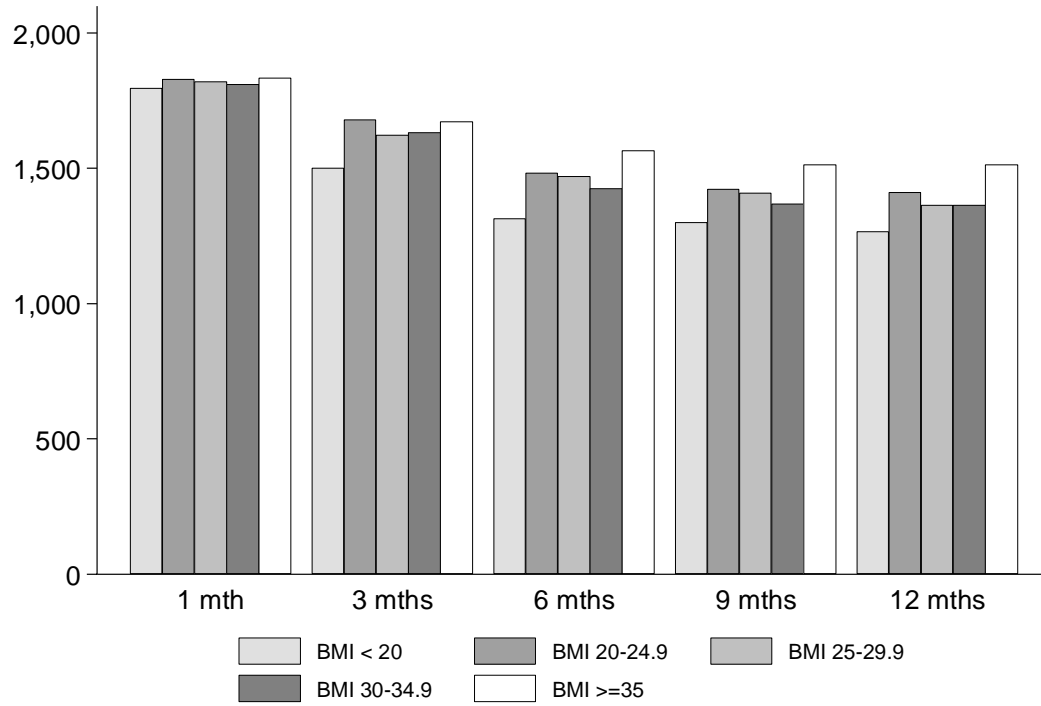
Time Point Post-Transplant	Number of Patients in Each BMI Category					Total
	< 20	20-24.9	25-29.9	30-34.9	>= 35	
1 month	67	272	228	120	43	730
3 months	62	242	211	117	44	676
6 months	56	222	190	109	38	615
9 months	52	203	165	97	35	552
12 months	47	194	155	87	32	515

SDC 4: Side-by-Side Boxplots of Cyclosporine C2 Levels (ng/mL) Over the First Year Post-Transplant Stratified by Body Mass Index Category



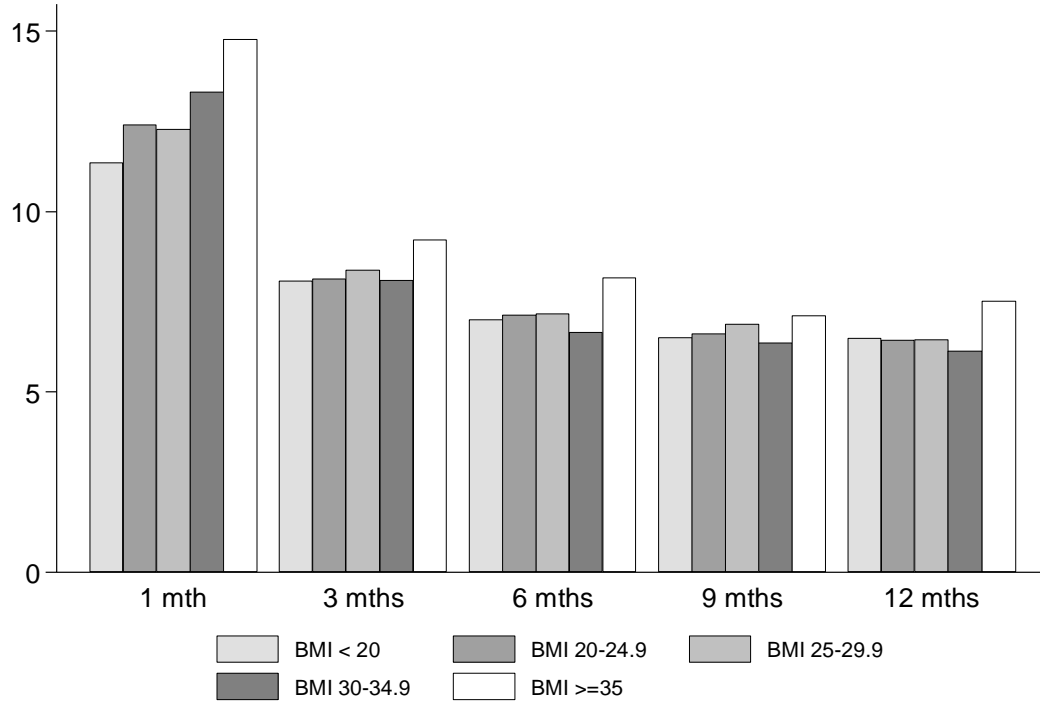
Time Point Post-Transplant	Number of Patients in Each BMI Category					Total
	< 20	20-24.9	25-29.9	30-34.9	>= 35	
1 month	28	131	117	64	31	371
3 months	25	117	101	56	28	327
6 months	23	111	93	50	25	302
9 months	24	97	82	44	19	266
12 months	22	96	82	43	22	265

SDC 5: Mean Mycophenolate Mofetil Dose (mg/day) Over the First Year Post-Transplant Stratified by Body Mass Index Category



Time Point Post-Transplant	Number of patients in each of BMI subgroups					Total
	< 20	20-24.9	25-29.9	30-34.9	>= 35	
1 month	84	392	317	163	71	1,027
3 months	77	375	313	158	62	985
6 months	80	366	313	163	58	980
9 months	75	362	306	160	56	959
12 months	73	357	304	156	57	947

SDC 6: Mean Prednisone Dose (mg/day) Over the First Year Post-Transplant Stratified by Body Mass Index Category



Time Point Post-Transplant	Number of patients in each BMI subgroups					Total
	< 20	20-24.9	25-29.9	30-34.9	>= 35	
1 month	90	374	308	163	67	1,002
3 months	88	377	307	165	68	1,005
6 months	88	376	310	164	68	1,006
9 months	89	373	311	164	69	1,006
12 months	89	367	309	162	69	996

SDC 7: Types and Grades of Acute Rejection Episodes Over Study Follow-Up

Type and Grade of Acute Rejection Episodes	BMI Groups at Time of Transplant					Total
	<20	20-29.4	25-29.9	30-34.9	≥35	
TCMR Type IA (%)	5 (20.8)	6 (7.4)	7 (12.5)	4 (11.1)	4 (14.8)	26 (11.6)
TCMR Type IB (%)	5 (20.8)	13 (16.0)	7 (12.5)	8 (22.2)	5 (18.5)	38 (17.0)
TCMR Type IIA (%)	3 (12.5)	15 (18.5)	10 (17.9)	10 (27.8)	6 (22.2)	44 (19.6)
TCMR Type IIB (%)	2 (8.3)	6 (7.4)	4 (7.1)	2 (5.5)	2 (7.4)	16 (7.1)
TCMR Type III (%)	2 (8.3)	2 (2.5)	2 (3.6)	1 (2.8)	1 (3.7)	8 (3.6)
ABMR (%)	7 (29.2)	39 (48.0)	26 (46.4)	11 (30.5)	9 (33.3)	92 (41.1)
Total	24 (10.7)	81 (36.2)	56 (25.0)	36 (16.1)	27 (12.1)	224

Abbreviations: TCMR, T cell-mediated rejection; ABMR, antibody-mediated rejection

SDC 8: Odds Ratios (95% Confidence Intervals) for the Risk of Delayed Graft Function by Body Mass Index Categories (with Lowest Category < 18.5 kg/m²)

Logistic Regression Models	BMI < 18.5 kg/m ² OR (95% CI) N=38	BMI 18.5-24.9 kg/m ² OR (95% CI) N=91	BMI 25-29.9 kg/m ² OR (95% CI) N=64	BMI 30-34.9 kg/m ² OR (95% CI) N=184	BMI ≥ 35 kg/m ² OR (95% CI) N=74
Model 1	0.25 (0.06, 1.08)	Reference	1.09 (0.77, 1.54)	1.57 (1.05, 2.35)	2.95 (1.75, 4.97)
Model 2	0.20 (0.04, 1.02)	Reference	1.19 (0.81, 1.74)	1.73 (1.11, 2.71)	4.02 (2.25, 7.16)
Model 3	0.30 (0.06, 1.39)	Reference	1.07 (0.72, 1.60)	1.74 (1.07, 2.82)	4.00 (2.07, 7.72)
Model 4	0.28 (0.06, 1.34)	Reference	1.07 (0.71, 1.61)	1.88 (1.14, 3.08)	4.48 (2.27, 8.87)

Model 1: BMI categories only

Model 2: Model 1 plus recipient characteristics in Table 1

Model 3: Model 2 plus donor characteristics in Table 1

Model 4: Model 3 plus transplant characteristics in Table 1

SDC 9: Hazard Ratios (95% Confidence Intervals) for the Risk of Acute Rejection by Body Mass Index Categories (with Lowest Category < 18.5 kg/m²)

Cox Proportional Hazards Models	BMI < 18.5 kg/m ² HR (95% CI) N=38	BMI 18.5-24.9 kg/m ² HR (95% CI) N=91	BMI 25-29.9 kg/m ² HR (95% CI) N=64	BMI 30-34.9 kg/m ² HR (95% CI) N=184	BMI ≥ 35 kg/m ² HR (95% CI) N=74
Model 1	0.88 (0.38, 2.01)	Reference	0.81 (0.57, 1.14)	1.02 (0.68, 1.54)	2.03 (1.29, 3.21)
Model 2	0.74 (0.32, 1.70)	Reference	0.92 (0.65, 1.30)	1.15 (0.76, 1.74)	2.19 (1.36, 3.51)
Model 3	0.72 (0.31, 1.66)	Reference	0.95 (0.67, 1.34)	1.19 (0.79, 1.81)	2.16 (1.35, 3.48)
Model 4	0.65 (0.28, 1.50)	Reference	0.92 (0.65, 1.31)	1.21 (0.80, 1.85)	2.35 (1.45, 3.80)

Model 1: BMI categories only

Model 2: Model 1 plus recipient characteristics in Table 1

Model 3: Model 2 plus donor characteristics in Table 1

Model 4: Model 3 plus transplant characteristics in Table 1

SDC 10: Hazard Ratios (95% Confidence Intervals) for the Risk of Acute Rejection by Body Mass Index Categories (with Lowest Category < 18.5 kg/m²)

Outcome	BMI < 18.5 kg/m ²	BMI 18.5-24.9 kg/m ²	BMI 25-29.9 kg/m ²	BMI 30-34.9 kg/m ²	BMI ≥ 35 kg/m ²
	HR (95% CI) N=38	HR (95% CI) N=91	HR (95% CI) N=364	HR (95% CI) N=184	HR (95% CI) N=74
No Adjustment for Biopsy-Proven Acute Rejection as a Time-Varying Covariate					
All-Cause Graft Failure	0.92 (0.39, 2.17)	Reference	1.09 (0.75, 1.57)	0.79 (0.47, 1.33)	2.03 (1.13, 3.62)
Death-Censored Graft Failure	0.87 (0.30, 2.53)	Reference	1.15 (0.69, 1.90)	0.92 (0.43, 1.94)	2.55 (1.15, 5.65)
Death with Graft Function	0.91 (0.21, 3.93)	Reference	1.05 (0.61, 1.82)	0.66 (0.32, 1.38)	1.54 (0.64, 3.68)
Adjustment for Biopsy-Proven Acute Rejection as a Time-Varying Covariate					
All-Cause Graft Failure	1.13 (0.47, 2.69)	Reference	1.09 (0.75, 1.60)	0.82 (0.49, 1.38)	1.33 (0.73, 2.43)
Death-Censored Graft Failure	1.48 (0.50, 4.38)	Reference	1.27 (0.76, 2.15)	1.08 (0.51, 2.30)	1.39 (0.59, 3.25)
Death with Graft Function	0.99 (0.23, 4.31)	Reference	1.07 (0.62, 1.84)	0.65 (0.31, 1.36)	1.50 (0.61, 3.69)

All models include BMI categories and recipient, donor, and transplant characteristics shown in Table 7.

SDC 11: Total and Weight-Based Dosage of Thymoglobulin Induction Therapy by Body Mass Index Category

