

Variable	N	AKI Status			p-value ²
		Overall N = 460 ¹	0 N = 407 ¹	1 N = 53 ¹	
age_transplant	460	57.23 (13.37)	57.39 (13.23)	55.96 (14.47)	0.652
sex	460				0.814
Male		237.0 (51.5%)	211.0 (51.8%)	26.0 (49.1%)	
Female		223.0 (48.5%)	196.0 (48.2%)	27.0 (50.9%)	
bmi	460	26.34 (5.41)	26.20 (5.40)	27.48 (5.45)	0.130
primary_diagnosis	460				
Other		460.0 (100.0%)	407.0 (100.0%)	53.0 (100.0%)	
specific_primary_diagnosis___1	460	152.0 (33.0%)	137.0 (33.7%)	15.0 (28.3%)	0.532
specific_primary_diagnosis___2	460	34.0 (7.4%)	29.0 (7.1%)	5.0 (9.4%)	0.745
specific_primary_diagnosis___3	460	132.0 (28.7%)	114.0 (28.0%)	18.0 (34.0%)	0.459
specific_primary_diagnosis___4	460	113.0 (24.6%)	105.0 (25.8%)	8.0 (15.1%)	0.125
specific_primary_diagnosis___5	460	31.0 (6.7%)	27.0 (6.6%)	4.0 (7.5%)	>0.999
specific_primary_diagnosis___6	460	14.0 (3.0%)	13.0 (3.2%)	1.0 (1.9%)	0.923
specific_primary_diagnosis___7	460	4.0 (0.9%)	3.0 (0.7%)	1.0 (1.9%)	0.951
specific_primary_diagnosis___8	460	24.0 (5.2%)	20.0 (4.9%)	4.0 (7.5%)	0.629
specific_primary_diagnosis___9	460	16.0 (3.5%)	13.0 (3.2%)	3.0 (5.7%)	0.601
specific_primary_diagnosis___10	460	14.0 (3.0%)	11.0 (2.7%)	3.0 (5.7%)	0.451
specific_primary_diagnosis___11	460	212.0 (46.1%)	180.0 (44.2%)	32.0 (60.4%)	0.038
specific_primary_diagnosis___12	460	14.0 (3.0%)	12.0 (2.9%)	2.0 (3.8%)	>0.999
specific_primary_diagnosis___13	460	138.0 (30.0%)	128.0 (31.4%)	10.0 (18.9%)	0.085
if_pulmonary_htn	212				0.378
Primary PHTN		11.0 (5.2%)	11.0 (6.1%)	0.0 (0.0%)	
Secondary PHTN		201.0 (94.8%)	169.0 (93.9%)	32.0 (100.0%)	

¹ Mean (SD); n (%)² Wilcoxon rank sum test; Pearson's Chi-squared test; NA; Fisher's exact test

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Unknown		248	227	21	
las_at_transplant	249	46.65 (17.13)	45.95 (16.75)	51.98 (19.27)	0.020
Unknown		211	187	24	
cas_tx	210	35.63 (7.16)	35.32 (6.90)	38.05 (8.77)	0.248
Unknown		250	221	29	
patient_on_life_support	458	58.0 (12.7%)	45.0 (11.1%)	13.0 (25.0%)	0.009
Unknown		2	1	1	
type_of_support	58				0.843
1, ECMO		46.0 (79.3%)	35.0 (77.8%)	11.0 (84.6%)	
2, IABP		0.0 (0.0%)	0.0 (0.0%)	0.0 (0.0%)	
3, Ventilator		5.0 (8.6%)	4.0 (8.9%)	1.0 (7.7%)	
4, Noninvasive PPV		7.0 (12.1%)	6.0 (13.3%)	1.0 (7.7%)	
Unknown		402	362	40	
days_on_ecmo	46	31.83 (35.27)	37.51 (38.45)	13.73 (9.94)	0.206
Unknown		414	372	42	
condition_at_time_of_trans	460				0.080
1, In Intensive Care Unit		78.0 (17.0%)	64.0 (15.7%)	14.0 (26.4%)	
2, Hospitalized, Not in ICU		23.0 (5.0%)	19.0 (4.7%)	4.0 (7.5%)	
3, Not Hospitalized		359.0 (78.0%)	324.0 (79.6%)	35.0 (66.0%)	
functional_status_at_time	460				0.009
1, > 60%		230.0 (50.0%)	210.0 (51.6%)	20.0 (37.7%)	
2, 40–60%		161.0 (35.0%)	143.0 (35.1%)	18.0 (34.0%)	
3, 20–30%		56.0 (12.2%)	46.0 (11.3%)	10.0 (18.9%)	
4, 10%		13.0 (2.8%)	8.0 (2.0%)	5.0 (9.4%)	

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Variable	N	AKI Status			p-value ²
		Overall N = 460 ¹	0 N = 407 ¹	1 N = 53 ¹	
diabetes	460				0.287
1, No		380.0 (82.6%)	339.0 (83.3%)	41.0 (77.4%)	
2, Type 1		12.0 (2.6%)	11.0 (2.7%)	1.0 (1.9%)	
3, Type 2		65.0 (14.1%)	55.0 (13.5%)	10.0 (18.9%)	
4, Unknown		3.0 (0.7%)	2.0 (0.5%)	1.0 (1.9%)	
any_previous_malignancy	460	31.0 (6.7%)	31.0 (7.6%)	0.0 (0.0%)	0.074
multi_drug_resistant_bacte	460	41.0 (8.9%)	37.0 (9.1%)	4.0 (7.5%)	0.909
ever_smoked	460	242.0 (52.6%)	220.0 (54.1%)	22.0 (41.5%)	0.115
lung_infection_requiring_i	460	42.0 (9.1%)	37.0 (9.1%)	5.0 (9.4%)	>0.999
prior_cardiac_surgery	460	13.0 (2.8%)	12.0 (2.9%)	1.0 (1.9%)	>0.999
prior_lung_surgery_non_tra	460	60.0 (13.0%)	54.0 (13.3%)	6.0 (11.3%)	0.858
prior_lung_transplant	460	32.0 (7.0%)	26.0 (6.4%)	6.0 (11.3%)	0.298
tracheostomy	460	24.0 (5.2%)	18.0 (4.4%)	6.0 (11.3%)	0.073
prior_pleurodesis	460	19.0 (4.1%)	17.0 (4.2%)	2.0 (3.8%)	>0.999
chronic_steroid_use_5_mg_2	460	156.0 (33.9%)	130.0 (31.9%)	26.0 (49.1%)	0.020
pulmonary_artery_systolic	456	42.30 (16.55)	41.69 (16.24)	46.96 (18.20)	0.013
Unknown		4	4	0	
mean_pulmonary_capillary_w	453	10.00 (5.41)	10.00 (5.42)	9.94 (5.41)	0.997
Unknown		7	7	0	
cardiac_output_l_min	446	5.26 (2.09)	5.22 (2.11)	5.62 (1.89)	0.072
Unknown		14	12	2	
cardiac_index_l_m_m2	437	2.92 (1.13)	2.90 (1.16)	3.03 (0.87)	0.104
Unknown		23	19	4	
pulmonary_artery_diastolic	456	16.64 (8.46)	16.29 (8.40)	19.28 (8.46)	0.005

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Variable	N	AKI Status			p-value ²
		Overall N = 460 ¹	0 N = 407 ¹	1 N = 53 ¹	
Unknown		4	4	0	
pulmonary_artery_mean_pres	456	26.80 (10.90)	26.45 (10.80)	29.50 (11.36)	0.025
Unknown		4	4	0	
ejection_fraction	444	59.57 (5.30)	59.62 (5.22)	59.19 (5.92)	0.340
Unknown		16	14	2	
rv_dysfunction	451				0.806
1, None		320.0 (71.0%)	286.0 (71.7%)	34.0 (65.4%)	
2, Mild		83.0 (18.4%)	72.0 (18.0%)	11.0 (21.2%)	
3, Moderate		29.0 (6.4%)	25.0 (6.3%)	4.0 (7.7%)	
4, Severe		19.0 (4.2%)	16.0 (4.0%)	3.0 (5.8%)	
Unknown		9	8	1	
rvsp_or_spap	322				0.398
< 40 mmHg		161.0 (50.0%)	144.0 (51.1%)	17.0 (42.5%)	
≥ 40 mmHg		161.0 (50.0%)	138.0 (48.9%)	23.0 (57.5%)	
Unknown		138	125	13	
abo_group	460				0.298
1, A		165.0 (35.9%)	150.0 (36.9%)	15.0 (28.3%)	
2, B		46.0 (10.0%)	38.0 (9.3%)	8.0 (15.1%)	
3, AB		21.0 (4.6%)	17.0 (4.2%)	4.0 (7.5%)	
4, O		228.0 (49.6%)	202.0 (49.6%)	26.0 (49.1%)	
rh	460				0.877
Positive		415.0 (90.2%)	368.0 (90.4%)	47.0 (88.7%)	
Negative		45.0 (9.8%)	39.0 (9.6%)	6.0 (11.3%)	
most_recent_creatinine_mg	459	0.81 (0.21)	0.81 (0.20)	0.83 (0.29)	0.484

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		Overall N = 460 ¹	0 N = 407 ¹	1 N = 53 ¹	
Unknown		1	1	0	
most_recent_total_bilirubi	459	0.58 (0.39)	0.57 (0.36)	0.67 (0.58)	0.286
Unknown		1	1	0	
most_recent_hemoglobin	459	12.18 (2.23)	12.24 (2.22)	11.75 (2.32)	0.101
Unknown		1	1	0	
most_recent_hematocrit	459	38.42 (6.31)	38.54 (6.14)	37.49 (7.50)	0.168
Unknown		1	1	0	
fvc	441	1.74 (0.73)	1.73 (0.74)	1.75 (0.67)	0.786
Unknown		19	16	3	
fvc_predicted	438	45.09 (16.51)	45.01 (16.48)	45.73 (16.89)	0.845
Unknown		22	19	3	
fev1	441	1.33 (2.27)	1.34 (2.40)	1.25 (0.57)	0.550
Unknown		19	16	3	
fev1_predicted	439	40.92 (18.69)	40.76 (18.71)	42.21 (18.69)	0.580
Unknown		21	18	3	
fio2_estimate	451	32.52 (22.56)	32.28 (22.64)	34.37 (22.12)	0.362
Unknown		9	8	1	
paco2	456	43.92 (10.91)	43.62 (10.50)	46.18 (13.54)	0.038
Unknown		4	4	0	
pao2	449	83.10 (48.30)	83.56 (49.86)	79.45 (33.90)	0.972
Unknown		11	9	2	
perfusion_right_lung	318	53.56 (12.36)	53.52 (12.01)	53.83 (14.92)	0.429
Unknown		142	126	16	
perfusion_left_lung	318	46.44 (12.26)	46.48 (11.90)	46.16 (14.92)	0.408

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Unknown		142	126	16	
ventilation_right_lung	83	52.95 (8.91)	53.23 (8.79)	50.92 (9.95)	0.634
Unknown		377	334	43	
ventilation_left_lung	83	47.07 (8.83)	46.78 (8.70)	49.17 (9.95)	0.624
Unknown		377	334	43	
age	460	39.06 (15.33)	39.13 (15.47)	38.51 (14.42)	0.875
gender_donor	460				0.130
Male		300.0 (65.2%)	260.0 (63.9%)	40.0 (75.5%)	
Female		160.0 (34.8%)	147.0 (36.1%)	13.0 (24.5%)	
race_donor	460				0.089
1, White		222.0 (48.3%)	202.0 (49.6%)	20.0 (37.7%)	
2, African American/Black		98.0 (21.3%)	88.0 (21.6%)	10.0 (18.9%)	
3, Other		140.0 (30.4%)	117.0 (28.7%)	23.0 (43.4%)	
diabetes_donor	457	61.0 (13.3%)	55.0 (13.6%)	6.0 (11.3%)	0.805
Unknown		3	3	0	
cxr_abnormalities	460				0.439
1, None		209.0 (45.4%)	181.0 (44.5%)	28.0 (52.8%)	
2, Minor		141.0 (30.7%)	124.0 (30.5%)	17.0 (32.1%)	
3, Single Lobe		41.0 (8.9%)	38.0 (9.3%)	3.0 (5.7%)	
4, Multilobe		69.0 (15.0%)	64.0 (15.7%)	5.0 (9.4%)	
pneumonia	459	43.0 (9.4%)	38.0 (9.4%)	5.0 (9.4%)	>0.999
Unknown		1	1	0	
secretions	455				0.885
1, None		247.0 (54.3%)	218.0 (54.1%)	29.0 (55.8%)	

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2, Moderate		202.0 (44.4%)	180.0 (44.7%)	22.0 (42.3%)	
3, Major		6.0 (1.3%)	5.0 (1.2%)	1.0 (1.9%)	
Unknown		5	4	1	
ecd_extended_criteria	460	319.0 (69.3%)	281.0 (69.0%)	38.0 (71.7%)	0.813
cause_of_death	460				0.479
1, Anoxia		130.0 (28.3%)	117.0 (28.7%)	13.0 (24.5%)	
2, CVA/Stroke		146.0 (31.7%)	130.0 (31.9%)	16.0 (30.2%)	
3, Head Trauma		177.0 (38.5%)	155.0 (38.1%)	22.0 (41.5%)	
4, CNS		0.0 (0.0%)	0.0 (0.0%)	0.0 (0.0%)	
5, Other		7.0 (1.5%)	5.0 (1.2%)	2.0 (3.8%)	
donor_type	460				0.915
DBD		428.0 (93.0%)	378.0 (92.9%)	50.0 (94.3%)	
DCD		32.0 (7.0%)	29.0 (7.1%)	3.0 (5.7%)	
cmv_status_donor	460				0.560
1, Positive		341.0 (74.1%)	299.0 (73.5%)	42.0 (79.2%)	
2, Negative		113.0 (24.6%)	103.0 (25.3%)	10.0 (18.9%)	
3, Unknown		6.0 (1.3%)	5.0 (1.2%)	1.0 (1.9%)	
ever_smoked_donor	453	170.0 (37.5%)	152.0 (38.0%)	18.0 (34.0%)	0.675
Unknown		7	7	0	
estimated_pack_year_histor	157	7.62 (8.00)	7.14 (7.78)	11.80 (8.88)	0.032
Unknown		303	266	37	
best_pf_ratio_prior_to_ret	460	511.20 (83.54)	511.20 (85.89)	511.18 (63.27)	0.876
last_pf_ratio_prior_to_ret	460	445.52 (104.02)	443.18 (106.19)	463.48 (84.19)	0.067

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evlp	460	154.0 (33.5%)	137.0 (33.7%)	17.0 (32.1%)	0.940
type_of_lung_transplant	460				0.357
1, Single Right		57.0 (12.4%)	49.0 (12.0%)	8.0 (15.1%)	
2, Single Left		40.0 (8.7%)	38.0 (9.3%)	2.0 (3.8%)	
3, Double		363.0 (78.9%)	320.0 (78.6%)	43.0 (81.1%)	
warm_ischemic_time_left_lu	397	48.31 (19.35)	47.99 (19.07)	50.93 (21.46)	0.260
Unknown		63	54	9	
warm_ischemic_time_right_l	416	47.96 (16.09)	47.96 (16.54)	48.02 (12.51)	0.510
Unknown		44	41	3	
type_of_incision	364				0.219
1, Clamshell		324.0 (89.0%)	288.0 (90.0%)	36.0 (81.8%)	
2, Sternotomy		27.0 (7.4%)	21.0 (6.6%)	6.0 (13.6%)	
3, Isolated Bilateral Thoracotomies		13.0 (3.6%)	11.0 (3.4%)	2.0 (4.5%)	
Unknown		96	87	9	
skin_skin_time	298	366.10 (109.67)	363.61 (109.29)	398.95 (112.15)	0.137
Unknown		162	130	32	
skin_to_skin_time_2	349	364.23 (105.29)	358.90 (103.87)	397.67 (109.05)	0.020
Unknown		111	106	5	
chest_left_open	460	49.0 (10.7%)	41.0 (10.1%)	8.0 (15.1%)	0.380
use_of_ecls	460	264.0 (57.4%)	227.0 (55.8%)	37.0 (69.8%)	0.072
if_yes_type_of_support	264				0.154
1, CPB		55.0 (20.8%)	43.0 (18.9%)	12.0 (32.4%)	

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2, ECMO		197.0 (74.6%)	174.0 (76.7%)	23.0 (62.2%)	
3, Modified Bypass		12.0 (4.5%)	10.0 (4.4%)	2.0 (5.4%)	
4, Other		0.0 (0.0%)	0.0 (0.0%)	0.0 (0.0%)	
Unknown		196	180	16	
circuit_with_heparin_coati	211	172.0 (81.5%)	150.0 (82.0%)	22.0 (78.6%)	0.865
Unknown		249	224	25	
if_cpb_or_modified_cpb_was	60	41.0 (68.3%)	34.0 (69.4%)	7.0 (63.6%)	0.990
Unknown		400	358	42	
if_cpb_was_a_leukocyte_fil	56	4.0 (7.1%)	4.0 (8.5%)	0.0 (0.0%)	0.840
Unknown		404	360	44	
if_cpb_pump_suckers_used	58	43.0 (74.1%)	34.0 (70.8%)	9.0 (90.0%)	0.389
Unknown		402	359	43	
avalon_cannula	198	13.0 (6.6%)	11.0 (6.3%)	2.0 (8.7%)	>0.999
Unknown		262	232	30	
target_flow_rate	239	3.63 (0.76)	3.60 (0.74)	3.76 (0.88)	0.367
Unknown		221	202	19	
time_of_ecls	257	235.60 (139.71)	236.84 (146.33)	227.71 (87.82)	0.622
Unknown		203	185	18	
target_act	260	289.20 (105.73)	285.21 (104.55)	315.74 (111.21)	0.347
Unknown		200	181	19	
total_heparin_dose	402	14,898.77 (13,023.87)	14,735.24 (12,949.53)	16,050.00 (13,615.06)	0.555
Unknown		58	55	3	

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nadir_temperature	428	34.88 (3.54)	34.90 (3.74)	34.74 (1.50)	0.737
Unknown		32	31	1	
nadir_hct	425	26.36 (6.25)	26.60 (6.12)	24.62 (6.95)	0.036
Unknown		35	34	1	
cell_salvage	443	4.07 (62.44)	4.49 (66.46)	0.88 (0.64)	<0.001
Unknown		17	16	1	
units_rbc_intraop	426	2.06 (2.82)	1.81 (2.52)	3.86 (4.06)	<0.001
Unknown		34	32	2	
units_ffp_intraop	401	1.39 (1.99)	1.31 (1.94)	1.98 (2.24)	0.032
Unknown		59	57	2	
units_of_platelets	377				<0.001
0		203.0 (53.8%)	183.0 (55.5%)	20.0 (42.6%)	
1		89.0 (23.6%)	82.0 (24.8%)	7.0 (14.9%)	
2		57.0 (15.1%)	50.0 (15.2%)	7.0 (14.9%)	
3		13.0 (3.4%)	6.0 (1.8%)	7.0 (14.9%)	
4		11.0 (2.9%)	7.0 (2.1%)	4.0 (8.5%)	
5		2.0 (0.5%)	0.0 (0.0%)	2.0 (4.3%)	
6		1.0 (0.3%)	1.0 (0.3%)	0.0 (0.0%)	
7		1.0 (0.3%)	1.0 (0.3%)	0.0 (0.0%)	
Unknown		83	77	6	
units_of_cryoprecipitate	403				0.156
0		197.0 (48.9%)	174.0 (49.6%)	23.0 (44.2%)	
1		71.0 (17.6%)	64.0 (18.2%)	7.0 (13.5%)	
2		111.0 (27.5%)	94.0 (26.8%)	17.0 (32.7%)	

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3		15.0 (3.7%)	13.0 (3.7%)	2.0 (3.8%)	
4		5.0 (1.2%)	3.0 (0.9%)	2.0 (3.8%)	
5		1.0 (0.2%)	1.0 (0.3%)	0.0 (0.0%)	
6		1.0 (0.2%)	1.0 (0.3%)	0.0 (0.0%)	
7		1.0 (0.2%)	0.0 (0.0%)	1.0 (1.9%)	
10		1.0 (0.2%)	1.0 (0.3%)	0.0 (0.0%)	
Unknown		57	56	1	
total_amount_of_fluids_use	446	3,001.09 (1,342.18)	3,019.97 (1,342.21)	2,854.90 (1,346.15)	0.504
Unknown		14	12	2	
type_of_pressor_used__0	460	35.0 (7.6%)	31.0 (7.6%)	4.0 (7.5%)	>0.999
type_of_pressor_used__1	460	309.0 (67.2%)	272.0 (66.8%)	37.0 (69.8%)	0.780
type_of_pressor_used__2	460	330.0 (71.7%)	293.0 (72.0%)	37.0 (69.8%)	0.866
type_of_pressor_used__3	460	320.0 (69.6%)	286.0 (70.3%)	34.0 (64.2%)	0.452
type_of_pressor_used__4	460	8.0 (1.7%)	6.0 (1.5%)	2.0 (3.8%)	0.518
type_of_pressor_used__5	460	4.0 (0.9%)	3.0 (0.7%)	1.0 (1.9%)	0.951
type_of_pressor_used__6	460	53.0 (11.5%)	46.0 (11.3%)	7.0 (13.2%)	0.857
type_of_pressor_used__7	460	7.0 (1.5%)	7.0 (1.7%)	0.0 (0.0%)	0.715
use_of_inhaled_vasodilator	422				0.638
1, Nitric Oxide		245.0 (58.1%)	219.0 (58.6%)	26.0 (54.2%)	
2, Flolan		77.0 (18.2%)	69.0 (18.4%)	8.0 (16.7%)	
3, N/A		100.0 (23.7%)	86.0 (23.0%)	14.0 (29.2%)	
Unknown		38	33	5	
intraoperative_ecls	460				0.543

¹ Mean (SD); n (%)² Wilcoxon rank sum test; Pearson's Chi-squared test; NA; Fisher's exact test

Variable	N	AKI Status			p-value ²
		Overall N = 460 ¹	0 N = 407 ¹	1 N = 53 ¹	
1, Off-pump		232.0 (50.4%)	209.0 (51.4%)	23.0 (43.4%)	
2, ECMO		174.0 (37.8%)	153.0 (37.6%)	21.0 (39.6%)	
3, CPB		40.0 (8.7%)	33.0 (8.1%)	7.0 (13.2%)	
4, Modified CPB		14.0 (3.0%)	12.0 (2.9%)	2.0 (3.8%)	
type_of_ecls_used	460				0.014
None		413.0 (89.8%)	371.0 (91.2%)	42.0 (79.2%)	
ECMO		47.0 (10.2%)	36.0 (8.8%)	11.0 (20.8%)	
was_there_a_conversion	460	57.0 (12.4%)	46.0 (11.3%)	11.0 (20.8%)	0.081
type_of_ecls_conversion	57				0.336
1, ECMO		40.0 (70.2%)	34.0 (73.9%)	6.0 (54.5%)	
2, CPB		16.0 (28.1%)	11.0 (23.9%)	5.0 (45.5%)	
3, modified CPB		1.0 (1.8%)	1.0 (2.2%)	0.0 (0.0%)	
4, Other		0.0 (0.0%)	0.0 (0.0%)	0.0 (0.0%)	
Unknown		403	361	42	
postoperative_ecls	460	105.0 (22.8%)	82.0 (20.1%)	23.0 (43.4%)	<0.001
total_fluids_in_first_24_h	438	29.70 (244.88)	31.49 (257.95)	15.82 (95.28)	0.204
Unknown		22	19	3	
type_of_post_op_fluids_in	436				0.659
1, ECMO		6.0 (1.4%)	5.0 (1.3%)	1.0 (2.0%)	
2, CPB		127.0 (29.1%)	115.0 (29.8%)	12.0 (24.0%)	
3, modified CPB		303.0 (69.5%)	266.0 (68.9%)	37.0 (74.0%)	
4, Other		0.0 (0.0%)	0.0 (0.0%)	0.0 (0.0%)	
Unknown		24	21	3	

¹ Mean (SD); n (%)² Wilcoxon rank sum test; Pearson's Chi-squared test; NA; Fisher's exact test