

# ROSE Table for Patient Data Simulation

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## **Data Simulation Process**

The data is simulated using R software based on summary statistics from *Table 1. Patient characteristics by ethnicity or race* in the clinical trial manuscript.

The process is as follows :

1. Generate patient data for each ethnic or race group;
2. Then merge all ethnic or race group subsample data into one large dataset.

Table 1: Table 1. Patient characteristics by ethnicity or race

	Overall, N = 471	Black, N = 70	Hispanic, N = 48	Other, N = 51	White, N = 302
Age	55.87 (16.14)	54.65 (14.33)	57.39 (15.40)	56.75 (15.38)	55.76 (16.81)
Male	256 (54%)	42 (60%)	25 (52%)	29 (57%)	160 (53%)
Former.smoker	129 (27%)	11 (16%)	9 (19%)	17 (33%)	92 (30%)
Current.smoker	117 (25%)	23 (33%)	11 (23%)	14 (27%)	69 (23%)
Leukemia.or.lymphoma	20 (4.2%)	2 (2.9%)	4 (8.3%)	0 (0%)	14 (4.6%)
Metastatic.cancer	21 (4.5%)	3 (4.3%)	2 (4.2%)	4 (7.8%)	12 (4.0%)
Immune.suppression	75 (16%)	8 (11%)	12 (25%)	4 (7.8%)	51 (17%)
Cirrhosis	34 (7.2%)	6 (8.6%)	6 (12%)	1 (2.0%)	21 (7.0%)
Diabetes	121 (26%)	17 (24%)	16 (33%)	12 (24%)	76 (25%)
Hypertension	190 (40%)	35 (50%)	12 (25%)	13 (25%)	130 (43%)
Myocardial.infarction	29 (6.2%)	4 (5.7%)	2 (4.2%)	7 (14%)	16 (5.3%)
Heart.failure	33 (7.0%)	12 (17%)	3 (6.2%)	3 (5.9%)	15 (5.0%)
Stroke	24 (5.1%)	3 (4.3%)	4 (8.3%)	2 (3.9%)	15 (5.0%)
Dementia	12 (2.5%)	3 (4.3%)	3 (6.2%)	2 (3.9%)	4 (1.3%)
Chronic.lung.disease	79 (17%)	13 (19%)	6 (12%)	8 (16%)	52 (17%)
Dialysis	12 (2.5%)	4 (5.7%)	1 (2.1%)	3 (5.9%)	4 (1.3%)
Body.mass.index	31.78 (8.98)	30.61 (8.26)	29.05 (5.87)	28.73 (7.91)	33.01 (9.48)
Baseline.PF.ratio	112.63 (39.35)	95.59 (41.93)	121.53 (33.95)	111.62 (34.33)	115.34 (39.38)
Neuromuscular.Blockade	136 (29%)	19 (27%)	14 (29%)	20 (39%)	83 (27%)
Received.deep.sedation	419 (89%)	62 (89%)	44 (92%)	51 (100%)	262 (87%)
Prop.days.deeply.sedated	67.21 (34.76)	53.79 (35.06)	89.48 (27.14)	70.28 (30.17)	66.26 (34.86)
Received.benzodiazepines	207 (44%)	16 (23%)	24 (50%)	17 (33%)	150 (50%)
Prop.days.receiving.benzodiazepines	28.40 (39.54)	14.02 (34.97)	34.66 (39.04)	15.35 (38.44)	32.94 (39.68)
SOFA.score.Neuro.excl	9.17 (3.60)	9.56 (3.49)	9.34 (3.63)	9.43 (4.44)	9.00 (3.48)
APACHE.score.All.categ	109.45 (30.78)	110.92 (26.31)	113.23 (35.85)	105.58 (30.34)	109.16 (31.01)
APACHE.score.GCS.excl	77.65 (21.53)	74.20 (17.08)	82.31 (23.86)	73.64 (22.32)	78.39 (21.81)
pH	7.31 (0.10)	7.33 (0.09)	7.26 (0.12)	7.29 (0.11)	7.32 (0.10)
Prop.days.0to4.ventilated	90.68 (17.94)	92.37 (16.05)	90.35 (14.06)	83.48 (21.82)	91.56 (17.98)
Died.within.90.Days	200 (42%)	23 (33%)	25 (52%)	19 (37%)	133 (44%)

<sup>1</sup> Mean (SD) or N (%). Data is Simulated for the 471 patients for whom complete sedation data were available.