Alloimmunity & Trauma

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Descriptive Statistics

Main results

Total number of admission associated with AB is 47.

Supplemental Figure 1: Antibody Frequency by Gender

Supplemental Figure 2: Antibody Frequency by Race

Table 1: Clinical and Demographic Characteristics of Study Population

	Anti- (n = 4098)	Anti+ (n = 84)	p^a
age (mean (sd))	47.34 (19.11)	46.48 (20.31)	0.683
gender = M (%)	2918 (71.2)	57 (67.9)	0.583
race = Other (%)	2885 (70.4)	58 (69.0)	0.882
death = 1 (%)	463 (11.3)	19 (22.6)	0.002
los (median [IQR])	11.61 [5.98, 22.29]	37.36 [24.17, 58.97]	<0.001
RBCtrans (median [IQR])	1.00 [0.00, 5.00]	13.00 [6.00, 28.25]	<0.001
plasmatrans (median [IQR])	0.00 [0.00, 1.00]	4.00 [0.00, 18.00]	<0.001
cryop (median [IQR])	0.00 [0.00, 0.00]	0.00 [0.00, 0.00]	<0.001
pp (median [IQR])	0.00 [0.00, 0.00]	1.00 [0.00, 4.00]	<0.001
ntest (median [IQR])	2.00 [1.00, 3.00]	7.00 [4.00, 14.00]	<0.001

Table 2: Antibody Characteristics: Number of antibodies

	Median # Antibody during H	New Ant w H	New Ant w/o H	New Anti w+w/o H
Totnum	160	47	156	84
mean	0.6625	1.25	1.2625	1.26190476190476
q1	0	1	1	1
median	1	1	1	1
q3	1	1.25	1	1
max	4	2	4	4
min	0	1	1	1
range	4	1	3	3
n	160	4	80	84

Table 3: Antibody Characteristics: Antibody Specificity

Antibody	Pre Admission	Post Admission
c	1	0
C	4	4
Cw	1	0
D	4	11
e	1	1
E	16	26
Fya	1	2
Jka	1	10
Jkb	2	0
K	9	7
Lea	1	5
Leb	1	3
M	9	4
NSE	12	33
S	1	1
V	1	0
A1	0	1

Table 4: Transfusion and Antibody Development

Number of RBC transfusion	Anti-	Anti+	% Developed Antibody During Encounter
0	1789	2	0.11
1-5	1439	17	1.17
6-10	503	18	3.45
11-20	263	19	6.74
>20	104	28	21.21

Table 5: Time to Antibody Analysis

	RBC to FA	RBC to 1NS	RBC to 2NS	Time F/S NS
mean	5.28	4.67	11.57	6.90
q1	2.13	1.55	5.18	2.97
median	4.32	2.63	7.38	4.06
q3	6.86	4.76	11.01	6.42
max	18.64	251.94	602.94	599.59
min	0.58	0.50	1.48	0.50
n	67.00	744.00	744.00	744.00