# Alloimmunity & Trauma

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*19 November, 2018*

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Total number of admission associated with AB is 47.

## Table 4: Outcomes analysis

## Supplemental Figure 1: Antibody Frequency by Gender

## Supplemental Figure 2: Antibody Frequency by Race

Table 1: Demographics

|  | Anti-<br>(n = 4098) | Anti+<br>(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, 0.75] | 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 Specificity

| Antibody | Pre Admission | Post Admission |
|---|---|---|
| c | 1 | 0 |
| C | 4 | 2 |
| Cw | 1 | 0 |
| D | 4 | 7 |
| e | 1 | 0 |
| E | 16 | 15 |
| Fya | 1 | 1 |
| Jka | 1 | 6 |
| Jkb | 2 | 0 |
| K | 9 | 0 |
| Lea | 1 | 4 |
| Leb | 1 | 1 |
| M | 9 | 3 |
| NSE | 12 | 28 |
| S | 1 | 1 |
| V | 1 | 0 |
| A1 | 0 | 1 |

Table 3: Transfusion and Antibody Development

| Number of RBC transfusion | Anti- | Anti+ | % Developed Antibody During Encounter |
|---|---|---|---|
| 0 | 1795 | 2 | 0.1112966 |
| 1-5 | 1433 | 17 | 1.1724138 |
| 6-10 | 503 | 18 | 3.4548944 |
| 11-20 | 263 | 19 | 6.7375887 |
| >20 | 104 | 28 | 21.2121212 |