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# Summary

## Statistical summary

|  |  | **AA11** | | |  | **BB22** | | |  | **CC33** | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **time\_value** |  | **avg** | **sd** | **n** |  | **avg** | **sd** | **n** |  | **avg** | **sd** | **n** |
| 5 |  | 70.25 | 52.63 | 32 |  | 55.07 | 45.01 | 32 |  | 73.31 | 61.74 | 32 |
| 8 |  | 62.93 | 36.86 | 32 |  | 54.42 | 32.22 | 32 |  | 58.36 | 39.17 | 32 |
| 9 |  | 316.69 | 94.08 | 32 |  | 318.41 | 104.74 | 32 |  | 355.76 | 117.30 | 32 |
| 10 |  | 510.99 | 169.46 | 32 |  | 564.06 | 140.23 | 32 |  | 624.38 | 123.31 | 32 |
| 11 |  | 791.37 | 196.22 | 32 |  | 776.79 | 183.67 | 32 |  | 824.72 | 178.67 | 32 |
| 12 |  | 1003.02 | 221.92 | 32 |  | 990.44 | 218.08 | 32 |  | 1046.02 | 196.35 | 32 |
| 15 |  | 965.60 | 230.65 | 32 |  | 992.14 | 228.92 | 32 |  | 1057.25 | 219.41 | 32 |
| 17 |  | 913.48 | 253.88 | 32 |  | 941.80 | 227.12 | 32 |  | 987.34 | 246.03 | 32 |
| 19 |  | 888.19 | 200.06 | 32 |  | 899.60 | 226.24 | 32 |  | 977.60 | 210.68 | 32 |
| 22 |  | 874.97 | 209.66 | 32 |  | 897.47 | 225.24 | 32 |  | 948.95 | 231.90 | 32 |
| 24 |  | 856.27 | 207.54 | 32 |  | 875.40 | 199.08 | 32 |  | 929.53 | 234.71 | 32 |
| 26 |  | 837.20 | 219.24 | 32 |  | 884.36 | 214.26 | 32 |  | 912.89 | 247.13 | 32 |
| 29 |  | 814.15 | 212.52 | 32 |  | 859.66 | 231.33 | 32 |  | 886.65 | 206.94 | 32 |
| 31 |  | 789.89 | 224.30 | 32 |  | 809.09 | 210.47 | 32 |  | 867.47 | 217.43 | 32 |
| 33 |  | 771.16 | 189.74 | 32 |  | 798.24 | 201.71 | 32 |  | 838.21 | 226.53 | 32 |
| 36 |  | 749.80 | 224.91 | 31 |  | 812.97 | 240.31 | 32 |  | 801.71 | 234.65 | 32 |
| 38 |  | 746.63 | 206.89 | 32 |  | 794.63 | 229.27 | 32 |  | 805.95 | 226.63 | 32 |
| 40 |  | 747.59 | 203.98 | 32 |  | 766.70 | 218.87 | 32 |  | 785.69 | 206.89 | 32 |
| 43 |  | 712.25 | 204.56 | 32 |  | 766.66 | 222.99 | 32 |  | 771.22 | 234.08 | 32 |
| 45 |  | 706.94 | 180.51 | 32 |  | 746.75 | 198.53 | 32 |  | 766.03 | 191.54 | 32 |
| 47 |  | 712.85 | 187.68 | 32 |  | 718.24 | 190.66 | 32 |  | 758.76 | 197.50 | 32 |

1. statistical summary

AA11

BB22

CC33

0

250

500

750

1000

1250

0

250

500

750

1000

1250

0

250

500

750

1000

1250

10

20

30

40

time\_value

q50

1. graphical summary

### Demography

|  | | **A** | **B** | **Sum** |
| --- | --- | --- | --- | --- |
| **Female** | # | 6 | 14 | 20 |
| % | 18.8 | 43.8 | 62.5 |
| row % | 30.0 | 70.0 |  |
| col % | 66.7 | 60.9 |  |
| **Male** | # | 3 | 9 | 12 |
| % | 9.4 | 28.1 | 37.5 |
| row % | 25.0 | 75.0 |  |
| col % | 33.3 | 39.1 |  |
| **Sum** | # | 9 | 23 | 32 |
| % | 28.1 | 71.9 | 100.0 |

1. demo frequency table

# Model

## Quality

|  |  |
| --- | --- |
| *Observations* | 2015 |
| *Akaike Inf. Crit.* | 24906.85 |
| *Bayesian Inf. Crit.* | 25069.1 |
| *Log Likelihood* | -12424.42 |

## Coefficients

|  | Value | Std.Error | DF | t-value | p-value |
| --- | --- | --- | --- | --- | --- |
| (Intercept) | 49.675 | 31.030 | 1957 | 1.601 | 0.110 |
| baseline | 0.013 | 0.082 | 1957 | 0.155 | 0.877 |
| treatmentBB22 | 18.848 | 6.448 | 1957 | 2.923 | 0.004 |
| treatmentCC33 | 55.347 | 6.480 | 1957 | 8.541 | 0.000 |
| timeday\_08 | -7.640 | 16.831 | 1957 | -0.454 | 0.650 |
| timeday\_09 | 264.075 | 16.831 | 1957 | 15.690 | 0.000 |
| timeday\_10 | 500.269 | 16.831 | 1957 | 29.724 | 0.000 |
| timeday\_11 | 731.412 | 16.831 | 1957 | 43.457 | 0.000 |
| timeday\_12 | 946.951 | 16.831 | 1957 | 56.263 | 0.000 |
| timeday\_15 | 938.786 | 16.831 | 1957 | 55.778 | 0.000 |
| timeday\_17 | 881.329 | 16.831 | 1957 | 52.364 | 0.000 |
| timeday\_19 | 855.586 | 16.831 | 1957 | 50.835 | 0.000 |
| timeday\_22 | 840.920 | 16.831 | 1957 | 49.963 | 0.000 |
| timeday\_24 | 820.855 | 16.831 | 1957 | 48.771 | 0.000 |
| timeday\_26 | 811.936 | 16.831 | 1957 | 48.241 | 0.000 |
| timeday\_29 | 787.277 | 16.831 | 1957 | 46.776 | 0.000 |
| timeday\_31 | 755.938 | 16.831 | 1957 | 44.914 | 0.000 |
| timeday\_33 | 736.325 | 16.831 | 1957 | 43.749 | 0.000 |
| timeday\_36 | 724.136 | 16.876 | 1957 | 42.910 | 0.000 |
| timeday\_38 | 716.190 | 16.831 | 1957 | 42.553 | 0.000 |
| timeday\_40 | 700.448 | 16.831 | 1957 | 41.617 | 0.000 |
| timeday\_43 | 683.833 | 16.831 | 1957 | 40.630 | 0.000 |
| timeday\_45 | 673.698 | 16.831 | 1957 | 40.028 | 0.000 |
| timeday\_47 | 663.741 | 16.831 | 1957 | 39.436 | 0.000 |
| areaB | -24.701 | 7.328 | 1957 | -3.371 | 0.001 |
| areaC | 25.157 | 7.793 | 1957 | 3.228 | 0.001 |
| areaD | -44.038 | 8.625 | 1957 | -5.106 | 0.000 |

## Estimates

0

250

500

750

1000

0

10

20

30

40

Days

Estimates for xxx

*treatment*

AA11

BB22

CC33

Log-restricted-likelihood: -12424.4

Least-squares means for time and treatment

Linear mixed-effects model fit by REML

1. LS means values

|  |  | **AA11** | |  | **BB22** | |  | **CC33** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **time** |  | **est.** | **ci** |  | **est.** | **ci** |  | **est.** | **ci** |
| day\_05 |  | 39.49 (30.38) | [-22.47 - 101.46] |  | 58.34 (30.39) | [-3.63 - 120.32] |  | 94.84 (30.38) | [32.88 - 156.80] |
| day\_08 |  | 31.85 (30.38) | [-30.11 - 93.82] |  | 50.70 (30.39) | [-11.27 - 112.68] |  | 87.20 (30.38) | [25.24 - 149.16] |
| day\_09 |  | 303.57 (30.38) | [241.60 - 365.54] |  | 322.42 (30.39) | [260.44 - 384.39] |  | 358.92 (30.38) | [296.96 - 420.88] |
| day\_10 |  | 539.76 (30.38) | [477.80 - 601.73] |  | 558.61 (30.39) | [496.64 - 620.59] |  | 595.11 (30.38) | [533.15 - 657.07] |
| day\_11 |  | 770.91 (30.38) | [708.94 - 832.88] |  | 789.76 (30.39) | [727.78 - 851.73] |  | 826.25 (30.38) | [764.30 - 888.21] |
| day\_12 |  | 986.45 (30.38) | [924.48 - 1048.41] |  | 1005.29 (30.39) | [943.32 - 1067.27] |  | 1041.79 (30.38) | [979.84 - 1103.75] |
| day\_15 |  | 978.28 (30.38) | [916.31 - 1040.25] |  | 997.13 (30.39) | [935.16 - 1059.10] |  | 1033.63 (30.38) | [971.67 - 1095.59] |
| day\_17 |  | 920.82 (30.38) | [858.86 - 982.79] |  | 939.67 (30.39) | [877.70 - 1001.65] |  | 976.17 (30.38) | [914.21 - 1038.13] |
| day\_19 |  | 895.08 (30.38) | [833.11 - 957.05] |  | 913.93 (30.39) | [851.96 - 975.90] |  | 950.43 (30.38) | [888.47 - 1012.39] |
| day\_22 |  | 880.41 (30.38) | [818.45 - 942.38] |  | 899.26 (30.39) | [837.29 - 961.24] |  | 935.76 (30.38) | [873.80 - 997.72] |
| day\_24 |  | 860.35 (30.38) | [798.38 - 922.32] |  | 879.20 (30.39) | [817.22 - 941.17] |  | 915.70 (30.38) | [853.74 - 977.66] |
| day\_26 |  | 851.43 (30.38) | [789.46 - 913.40] |  | 870.28 (30.39) | [808.31 - 932.25] |  | 906.78 (30.38) | [844.82 - 968.74] |
| day\_29 |  | 826.77 (30.38) | [764.80 - 888.74] |  | 845.62 (30.39) | [783.65 - 907.59] |  | 882.12 (30.38) | [820.16 - 944.08] |
| day\_31 |  | 795.43 (30.38) | [733.46 - 857.40] |  | 814.28 (30.39) | [752.31 - 876.26] |  | 850.78 (30.38) | [788.82 - 912.74] |
| day\_33 |  | 775.82 (30.38) | [713.85 - 837.79] |  | 794.67 (30.39) | [732.69 - 856.64] |  | 831.17 (30.38) | [769.21 - 893.12] |
| day\_36 |  | 763.63 (30.42) | [701.60 - 825.66] |  | 782.48 (30.41) | [720.46 - 844.50] |  | 818.98 (30.40) | [756.98 - 880.98] |
| day\_38 |  | 755.68 (30.38) | [693.72 - 817.65] |  | 774.53 (30.39) | [712.56 - 836.51] |  | 811.03 (30.38) | [749.07 - 872.99] |
| day\_40 |  | 739.94 (30.38) | [677.97 - 801.91] |  | 758.79 (30.39) | [696.82 - 820.76] |  | 795.29 (30.38) | [733.33 - 857.25] |
| day\_43 |  | 723.33 (30.38) | [661.36 - 785.30] |  | 742.18 (30.39) | [680.20 - 804.15] |  | 778.67 (30.38) | [716.72 - 840.63] |
| day\_45 |  | 713.19 (30.38) | [651.22 - 775.16] |  | 732.04 (30.39) | [670.07 - 794.02] |  | 768.54 (30.38) | [706.58 - 830.50] |
| day\_47 |  | 703.24 (30.38) | [641.27 - 765.20] |  | 722.08 (30.39) | [660.11 - 784.06] |  | 758.58 (30.38) | [696.63 - 820.54] |

1. LS means values

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