

Supplemental online material

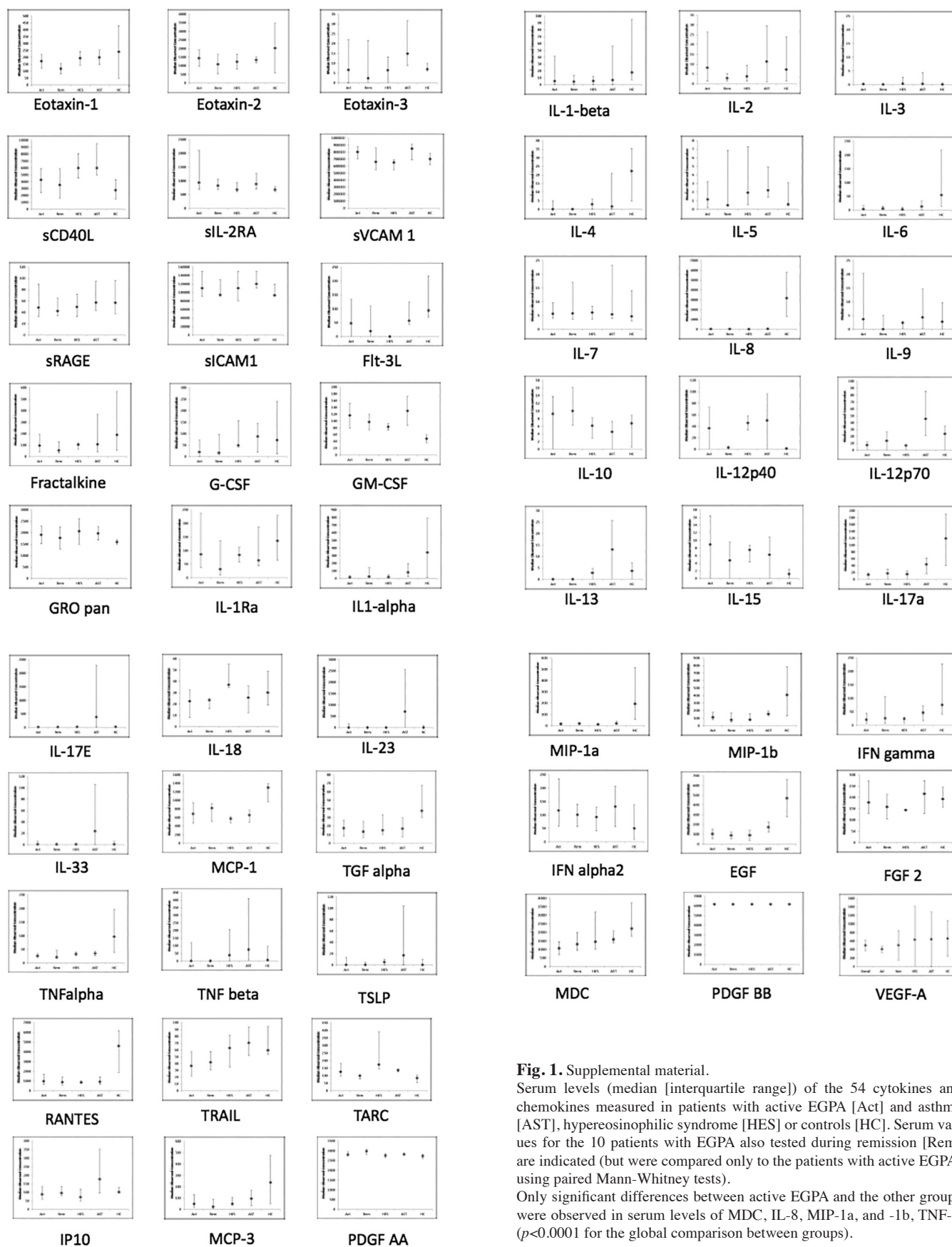


Fig. 1. Supplemental material. Serum levels (median [interquartile range]) of the 54 cytokines and chemokines measured in patients with active EGPA [Act] and asthma [AST], hypereosinophilic syndrome [HES] or controls [HC]. Serum values for the 10 patients with EGPA also tested during remission [Rem] are indicated (but were compared only to the patients with active EGPA, using paired Mann-Whitney tests). Only significant differences between active EGPA and the other groups were observed in serum levels of MDC, IL-8, MIP-1a, and -1b, TNF- α ($p < 0.0001$ for the global comparison between groups).

Table I. Supplementary material.

Complete results of the logistic regression for all tested cytokines and chemokines (comparisons between values in patients with active eosinophilic granulomatosis with polyangiitis [EGPA] vs. other 3 groups – hypereosinophilic syndrome [HES], healthy controls [CTR] and asthma patients [AST]).

| Outcome | Label 1 | Num | Parameter | Level1 | Estimate | StdErr | LowerCL | UpperCL | ChiSq | PVal | ChiSq Overall | PVal Overall |
|-----------|--------------------------|-----|-----------|--------|----------|--------|---------|---------|-----------|--------|---------------|--------------|
| sICAM_1 | Number of Observations | 64 | Intercept | | 11.6274 | 0.0468 | 11.5357 | 11.7190 | 61834.19 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | 0.0240 | 0.1295 | -0.2298 | 0.2777 | 0.03 | 0.8531 | 2.37 | 0.4992 |
| | Right Censored Values | 0 | | CTR | -0.1143 | 0.1046 | -0.3192 | 0.0906 | 1.20 | 0.2742 | | |
| | Left Censored Values | 0 | | AST | 0.0962 | 0.1145 | -0.1283 | 0.3206 | 0.70 | 0.4012 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 0.2957 | 0.0261 | 0.2487 | 0.3517 | | | |
| sVCAM_1 | Number of Observations | 64 | Intercept | | 13.6094 | 0.0351 | 13.5406 | 13.6783 | 150170.85 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | -0.1841 | 0.0972 | -0.3747 | 0.0065 | 3.58 | 0.0583 | 7.16 | 0.0670 |
| | Right Censored Values | 0 | | CTR | -0.1644 | 0.0785 | -0.3183 | -0.0105 | 4.38 | 0.0363 | | |
| | Left Censored Values | 0 | | AST | -0.0036 | 0.0860 | -0.1722 | 0.1651 | 0.00 | 0.9670 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 0.2221 | 0.0196 | 0.1868 | 0.2641 | | | |
| IL17_E | Number of Observations | 64 | Intercept | | 4.6342 | 0.6193 | 3.4204 | 5.8481 | 55.99 | <.0001 | | |
| | Noncensored Values | 63 | Group | HES | -1.1737 | 1.7143 | -4.5338 | 2.1863 | 0.47 | 0.4936 | 1.53 | 0.6758 |
| | Right Censored Values | 1 | | CTR | -0.9613 | 1.3845 | -3.6748 | 1.7523 | 0.48 | 0.4875 | | |
| | Left Censored Values | 0 | | AST | 0.9490 | 1.5166 | -2.0235 | 3.9216 | 0.39 | 0.5315 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 3.9157 | 0.3514 | 3.2842 | 4.6687 | | | |
| EGF | Number of Observations | 64 | Intercept | | 4.5253 | 0.1839 | 4.1650 | 4.8857 | 605.83 | <.0001 | | |
| | Noncensored Values | 62 | Group | HES | 0.1005 | 0.5082 | -0.8956 | 1.0967 | 0.04 | 0.8432 | 14.64 | 0.0022 |
| | Right Censored Values | 0 | | CTR | 1.5249 | 0.4105 | 0.7203 | 2.3294 | 13.80 | 0.0002 | | |
| | Left Censored Values | 2 | | AST | 0.6434 | 0.4496 | -0.2378 | 1.5247 | 2.05 | 0.1524 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 1.1606 | 0.1055 | 0.9712 | 1.3869 | | | |
| FGF_2 | Number of Observations | 64 | Intercept | | 5.1878 | 0.1135 | 4.9653 | 5.4103 | 2088.55 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | 0.1208 | 0.3143 | -0.4952 | 0.7369 | 0.15 | 0.7007 | 1.29 | 0.7317 |
| | Right Censored Values | 0 | | CTR | 0.2485 | 0.2538 | -0.2490 | 0.7460 | 0.96 | 0.3275 | | |
| | Left Censored Values | 0 | | AST | 0.2004 | 0.2781 | -0.3445 | 0.7454 | 0.52 | 0.4710 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 0.7179 | 0.0635 | 0.6037 | 0.8537 | | | |
| Eotaxin_1 | Number of Observations | 64 | Intercept | | 5.0803 | 0.0794 | 4.9246 | 5.2360 | 4090.66 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | 0.2948 | 0.2199 | -0.1363 | 0.7259 | 1.80 | 0.1801 | 5.13 | 0.1623 |
| | Right Censored Values | 0 | | CTR | 0.3065 | 0.1776 | -0.0416 | 0.6546 | 2.98 | 0.0844 | | |
| | Left Censored Values | 0 | | AST | 0.2760 | 0.1946 | -0.1053 | 0.6574 | 2.01 | 0.1560 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 0.5024 | 0.0444 | 0.4225 | 0.5974 | | | |
| TGF_a | Number of Observations | 64 | Intercept | | 2.9220 | 0.1875 | 2.5546 | 3.2894 | 242.96 | <.0001 | | |
| | Noncensored Values | 63 | Group | HES | 0.0574 | 0.5188 | -0.9594 | 1.0741 | 0.01 | 0.9120 | 3.07 | 0.3816 |
| | Right Censored Values | 1 | | CTR | 0.7260 | 0.4189 | -0.0951 | 1.5471 | 3.00 | 0.0831 | | |
| | Left Censored Values | 0 | | AST | 0.2178 | 0.4589 | -0.6816 | 1.1173 | 0.23 | 0.6350 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 1.1848 | 0.1062 | 0.9939 | 1.4124 | | | |
| G-CSF | Number of Observations | 64 | Intercept | | 2.0894 | 0.4192 | 1.2678 | 2.9109 | 24.85 | <.0001 | | |
| | Noncensored Values | 53 | Group | HES | 2.1992 | 1.1353 | -0.0260 | 4.4244 | 3.75 | 0.0527 | 7.24 | 0.0646 |
| | Right Censored Values | 0 | | CTR | 1.6826 | 0.9223 | -0.1252 | 3.4903 | 3.33 | 0.0681 | | |
| | Left Censored Values | 11 | | AST | 1.6178 | 1.0111 | -0.3640 | 3.5995 | 2.56 | 0.1096 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 2.5845 | 0.2653 | 2.1134 | 3.1605 | | | |
| Flt_3L | Number of Observations | 64 | Intercept | | 1.4437 | 0.6479 | 0.1737 | 2.7136 | 4.96 | 0.0259 | | |
| | Noncensored Values | 45 | Group | HES | -5.2477 | 2.1630 | -9.4871 | -1.0083 | 5.89 | 0.0153 | 14.79 | 0.0020 |
| | Right Censored Values | 0 | | CTR | 3.3714 | 1.3913 | 0.6444 | 6.0984 | 5.87 | 0.0154 | | |
| | Left Censored Values | 19 | | AST | 2.1108 | 1.5312 | -0.8903 | 5.1118 | 1.90 | 0.1680 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 3.8936 | 0.4485 | 3.1067 | 4.8797 | | | |

| Outcome | Label 1 | Num | Parameter | Level1 | Estimate | StdErr | LowerCL | UpperCL | ChiSq | PVal | ChiSq Overall | PVal Overall |
|-------------|--------------------------|-----|-----------|--------|----------|--------|---------|---------|---------|--------|---------------|--------------|
| GM_CSF | Number of Observations | 64 | Intercept | | 4.8984 | 0.1446 | 4.6149 | 5.1819 | 1147.08 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | -0.1267 | 0.4005 | -0.9116 | 0.6582 | 0.10 | 0.7516 | 6.48 | 0.0905 |
| | Right Censored Values | 0 | | CTR | -0.8166 | 0.3234 | -1.4505 | -0.1828 | 6.38 | 0.0116 | | |
| | Left Censored Values | 0 | | AST | -0.0533 | 0.3543 | -0.7476 | 0.6411 | 0.02 | 0.8805 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 0.9147 | 0.0809 | 0.7692 | 1.0877 | | | |
| Fractalkine | Number of Observations | 64 | Intercept | | 4.3239 | 0.2589 | 3.8165 | 4.8314 | 278.92 | <.0001 | | |
| | Noncensored Values | 61 | Group | HES | 0.5729 | 0.7156 | -0.8297 | 1.9754 | 0.64 | 0.4234 | 3.92 | 0.2699 |
| | Right Censored Values | 0 | | CTR | 1.1071 | 0.5780 | -0.0257 | 2.2399 | 3.67 | 0.0554 | | |
| | Left Censored Values | 3 | | AST | 0.2071 | 0.6355 | -1.0385 | 1.4528 | 0.11 | 0.7445 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 1.6341 | 0.1507 | 1.3639 | 1.9578 | | | |
| IFNa2 | Number of Observations | 64 | Intercept | | 4.6556 | 0.2067 | 4.2506 | 5.0606 | 507.55 | <.0001 | | |
| | Noncensored Values | 63 | Group | HES | 0.0635 | 0.5718 | -1.0572 | 1.1841 | 0.01 | 0.9116 | 7.70 | 0.0527 |
| | Right Censored Values | 0 | | CTR | -1.2215 | 0.4618 | -2.1265 | -0.3164 | 7.00 | 0.0082 | | |
| | Left Censored Values | 1 | | AST | 0.1011 | 0.5058 | -0.8904 | 1.0925 | 0.04 | 0.8417 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 1.3059 | 0.1170 | 1.0955 | 1.5567 | | | |
| IFNy | Number of Observations | 64 | Intercept | | 3.0131 | 0.1927 | 2.6355 | 3.3907 | 244.54 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | 0.4299 | 0.5335 | -0.6157 | 1.4756 | 0.65 | 0.4203 | 14.13 | 0.0027 |
| | Right Censored Values | 0 | | CTR | 1.5141 | 0.4308 | 0.6696 | 2.3585 | 12.35 | 0.0004 | | |
| | Left Censored Values | 0 | | AST | 0.9213 | 0.4720 | -0.0037 | 1.8464 | 3.81 | 0.0509 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 1.2186 | 0.1077 | 1.0248 | 1.4491 | | | |
| GRO_pan | Number of Observations | 64 | Intercept | | 7.5577 | 0.0773 | 7.4062 | 7.7091 | 9567.37 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | -0.0644 | 0.2139 | -0.4837 | 0.3549 | 0.09 | 0.7635 | 2.29 | 0.5152 |
| | Right Censored Values | 0 | | CTR | 0.2408 | 0.1728 | -0.0979 | 0.5794 | 1.94 | 0.1634 | | |
| | Left Censored Values | 0 | | AST | 0.0813 | 0.1893 | -0.2897 | 0.4522 | 0.18 | 0.6676 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 0.4887 | 0.0432 | 0.4109 | 0.5811 | | | |
| IL_10 | Number of Observations | 64 | Intercept | | 1.8603 | 0.3223 | 1.2286 | 2.4921 | 33.31 | <.0001 | | |
| | Noncensored Values | 57 | Group | HES | 0.0762 | 0.8953 | -1.6787 | 1.8310 | 0.01 | 0.9322 | 0.36 | 0.9485 |
| | Right Censored Values | 0 | | CTR | 0.2499 | 0.7199 | -1.1612 | 1.6609 | 0.12 | 0.7285 | | |
| | Left Censored Values | 7 | | AST | -0.3238 | 0.7906 | -1.8735 | 1.2258 | 0.17 | 0.6821 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 2.0227 | 0.1962 | 1.6725 | 2.4462 | | | |
| MCP_3 | Number of Observations | 64 | Intercept | | 3.8004 | 0.2454 | 3.3194 | 4.2813 | 239.89 | <.0001 | | |
| | Noncensored Values | 59 | Group | HES | 0.4570 | 0.6750 | -0.8659 | 1.7799 | 0.46 | 0.4984 | 6.39 | 0.0942 |
| | Right Censored Values | 0 | | CTR | 1.3678 | 0.5454 | 0.2990 | 2.4367 | 6.29 | 0.0121 | | |
| | Left Censored Values | 5 | | AST | 0.3851 | 0.6009 | -0.7927 | 1.5628 | 0.41 | 0.5216 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 1.5402 | 0.1453 | 1.2801 | 1.8531 | | | |
| IL_12P40 | Number of Observations | 64 | Intercept | | 2.1230 | 0.5765 | 0.9930 | 3.2529 | 13.56 | 0.0002 | | |
| | Noncensored Values | 46 | Group | HES | 1.6667 | 1.5442 | -1.3599 | 4.6932 | 1.16 | 0.2805 | 5.72 | 0.1262 |
| | Right Censored Values | 0 | | CTR | -2.5175 | 1.3364 | -5.1368 | 0.1018 | 3.55 | 0.0596 | | |
| | Left Censored Values | 18 | | AST | 0.4681 | 1.3921 | -2.2603 | 3.1964 | 0.11 | 0.7367 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 3.5090 | 0.3992 | 2.8077 | 4.3854 | | | |
| MDC | Number of Observations | 64 | Intercept | | 6.9624 | 0.0935 | 6.7792 | 7.1457 | 5545.64 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | 0.4851 | 0.2589 | -0.0222 | 0.9925 | 3.51 | 0.0609 | 19.46 | 0.0002 |
| | Right Censored Values | 0 | | CTR | 0.8064 | 0.2091 | 0.3967 | 1.2162 | 14.88 | 0.0001 | | |
| | Left Censored Values | 0 | | AST | 0.5817 | 0.2290 | 0.1328 | 1.0305 | 6.45 | 0.0111 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 0.5913 | 0.0523 | 0.4973 | 0.7032 | | | |
| IL_12P70 | Number of Observations | 64 | Intercept | | 2.1253 | 0.4558 | 1.2319 | 3.0187 | 21.74 | <.0001 | | |
| | Noncensored Values | 61 | Group | HES | 0.9342 | 1.2578 | -1.5311 | 3.3995 | 0.55 | 0.4577 | 3.46 | 0.3255 |
| | Right Censored Values | 0 | | CTR | 1.6074 | 1.0161 | -0.3840 | 3.5988 | 2.50 | 0.1137 | | |
| | Left Censored Values | 3 | | AST | 1.3101 | 1.1129 | -0.8711 | 3.4913 | 1.39 | 0.2391 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 2.8716 | 0.2644 | 2.3975 | 3.4395 | | | |

| Outcome | Label 1 | Num | Parameter | Level1 | Estimate | StdErr | LowerCL | UpperCL | ChiSq | PVal | ChiSq Overall | PVal Overall |
|---------|--------------------------|-----|-----------|--------|------------------|-----------------------|---------|---------|-----------|--------|---------------|--------------|
| PDGF_AA | Number of Observations | 64 | Intercept | | 7.9272 | 0.0217 | 7.8846 | 7.9697 | 133279.36 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | -0.0087 | 0.0601 | -0.1265 | 0.1092 | 0.02 | 0.8851 | 3.52 | 0.3184 |
| | Right Censored Values | 0 | | CTR | -0.0839 | 0.0486 | -0.1791 | 0.0112 | 2.99 | 0.0839 | | |
| | Left Censored Values | 0 | | AST | 0.0213 | 0.0532 | -0.0830 | 0.1255 | 0.16 | 0.6895 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 0.1373 | 0.0121 | 0.1155 | 0.1633 | | | |
| IL_13 | Number of Observations | 64 | Intercept | | -3.1964 | 0.8960 | -4.9524 | -1.4403 | 12.73 | 0.0004 | | |
| | Noncensored Values | 40 | Group | HES | 3.3871 | 2.2505 | -1.0238 | 7.7980 | 2.27 | 0.1323 | 5.95 | 0.1142 |
| | Right Censored Values | 0 | | CTR | 3.0478 | 1.8335 | -0.5459 | 6.6414 | 2.76 | 0.0965 | | |
| | Left Censored Values | 24 | | AST | 3.5466 | 2.0076 | -0.3883 | 7.4815 | 3.12 | 0.0773 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 4.9914 | 0.6185 | 3.9151 | 6.3636 | | | |
| PDGF_BB | Number of Observations | 64 | Intercept | | 9.8450 | 0.5155 | 8.8346 | 10.8554 | 364.69 | <.0001 | | |
| | Noncensored Values | 6 | Group | HES | 5.132838063.1807 | -74597.330674607.5962 | 0.00 | 0.9999 | 0.44 | 0.9312 | | |
| | Right Censored Values | 58 | | CTR | -0.3147 | 0.4727 | -1.2412 | 0.6118 | 0.44 | 0.5056 | | |
| | Left Censored Values | 0 | | AST | 5.132832963.6815 | -64602.495764612.7613 | 0.00 | 0.9999 | | | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 0.9001 | 0.3259 | 0.4426 | 1.8302 | | | |
| IL_15 | Number of Observations | 64 | Intercept | | 1.3095 | 0.5693 | 0.1936 | 2.4253 | 5.29 | 0.0214 | | |
| | Noncensored Values | 52 | Group | HES | 0.8253 | 1.5594 | -2.2311 | 3.8818 | 0.28 | 0.5966 | 8.14 | 0.0432 |
| | Right Censored Values | 0 | | CTR | -3.5642 | 1.3335 | -6.1779 | -0.9506 | 7.14 | 0.0075 | | |
| | Left Censored Values | 12 | | AST | -0.0601 | 1.3897 | -2.7840 | 2.6637 | 0.00 | 0.9655 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 3.5562 | 0.3709 | 2.8987 | 4.3627 | | | |
| sCD40L | Number of Observations | 64 | Intercept | | 8.1308 | 0.1235 | 7.8888 | 8.3729 | 4334.59 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | 0.5402 | 0.3420 | -0.1300 | 1.2104 | 2.50 | 0.1142 | 12.42 | 0.0061 |
| | Right Censored Values | 0 | | CTR | -0.4884 | 0.2761 | -1.0296 | 0.0529 | 3.13 | 0.0770 | | |
| | Left Censored Values | 0 | | AST | 0.6767 | 0.3025 | 0.0838 | 1.2696 | 5.00 | 0.0253 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 0.7811 | 0.0690 | 0.6568 | 0.9288 | | | |
| IL_17A | Number of Observations | 64 | Intercept | | 3.0002 | 0.2113 | 2.5861 | 3.4144 | 201.58 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | 0.1765 | 0.5851 | -0.9703 | 1.3232 | 0.09 | 0.7629 | 13.73 | 0.0033 |
| | Right Censored Values | 0 | | CTR | 1.6366 | 0.4725 | 0.7105 | 2.5627 | 12.00 | 0.0005 | | |
| | Left Censored Values | 0 | | AST | 0.9624 | 0.5176 | -0.0521 | 1.9769 | 3.46 | 0.0630 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 1.3365 | 0.1181 | 1.1239 | 1.5893 | | | |
| IL_1RA | Number of Observations | 64 | Intercept | | 4.4705 | 0.1895 | 4.0991 | 4.8419 | 556.52 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | 0.1673 | 0.5247 | -0.8611 | 1.1957 | 0.10 | 0.7499 | 1.55 | 0.6700 |
| | Right Censored Values | 0 | | CTR | 0.5246 | 0.4237 | -0.3059 | 1.3552 | 1.53 | 0.2157 | | |
| | Left Censored Values | 0 | | AST | 0.1463 | 0.4642 | -0.7635 | 1.0561 | 0.10 | 0.7526 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 1.1985 | 0.1059 | 1.0079 | 1.4252 | | | |
| IL_1a | Number of Observations | 64 | Intercept | | 2.9723 | 0.2848 | 2.4140 | 3.5306 | 108.89 | <.0001 | | |
| | Noncensored Values | 62 | Group | HES | 0.5451 | 0.7868 | -0.9970 | 2.0872 | 0.48 | 0.4884 | 10.17 | 0.0172 |
| | Right Censored Values | 0 | | CTR | 1.6855 | 0.6355 | 0.4399 | 2.9312 | 7.03 | 0.0080 | | |
| | Left Censored Values | 2 | | AST | 1.5505 | 0.6961 | 0.1862 | 2.9149 | 4.96 | 0.0259 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 1.7966 | 0.1630 | 1.5038 | 2.1463 | | | |
| IL_9 | Number of Observations | 64 | Intercept | | -0.3846 | 0.6838 | -1.7249 | 0.9557 | 0.32 | 0.5738 | | |
| | Noncensored Values | 47 | Group | HES | 0.2997 | 1.8551 | -3.3362 | 3.9355 | 0.03 | 0.8717 | 1.18 | 0.7586 |
| | Right Censored Values | 0 | | CTR | -1.3872 | 1.5423 | -4.4100 | 1.6356 | 0.81 | 0.3684 | | |
| | Left Censored Values | 17 | | AST | 0.6305 | 1.6361 | -2.5762 | 3.8373 | 0.15 | 0.6999 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 4.1624 | 0.4670 | 3.3407 | 5.1861 | | | |
| IL_1B | Number of Observations | 64 | Intercept | | 1.3034 | 0.3845 | 0.5498 | 2.0569 | 11.49 | 0.0007 | | |
| | Noncensored Values | 64 | Group | HES | -0.3359 | 1.0646 | -2.4224 | 1.7506 | 0.10 | 0.7523 | 3.16 | 0.3673 |
| | Right Censored Values | 0 | | CTR | 1.4402 | 0.8597 | -0.2448 | 3.1253 | 2.81 | 0.0939 | | |
| | Left Censored Values | 0 | | AST | 0.1726 | 0.9418 | -1.6732 | 2.0185 | 0.03 | 0.8546 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | | 2.4316 | 0.2149 | 2.0449 | 2.8916 | | | |

| Outcome | Label 1 | Num | Parameter | Level1 | Estimate | StdErr | LowerCL | UpperCL | ChiSq | PVal | ChiSq Overall | PVal Overall |
|---------|--------------------------|-----|-----------|--------|----------|--------|---------|---------|----------|--------|---------------|--------------|
| IL_2 | Number of Observations | 64 | Intercept | | 0.9707 | 0.5009 | -0.0110 | 1.9524 | 3.76 | 0.0526 | 0.64 | 0.8882 |
| | Noncensored Values | 56 | Group | HES | 0.7430 | 1.3704 | -1.9430 | 3.4291 | 0.29 | 0.5877 | | |
| | Right Censored Values | 0 | | CTR | 0.7065 | 1.1078 | -1.4647 | 2.8778 | 0.41 | 0.5236 | | |
| | Left Censored Values | 8 | | AST | 0.4243 | 1.2201 | -1.9671 | 2.8157 | 0.12 | 0.7280 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 3.1247 | 0.3087 | 2.5746 | 3.7923 | | | | |
| IL_3 | Number of Observations | 64 | Intercept | | -1.1157 | 0.2440 | -1.5940 | -0.6375 | 20.91 | <.0001 | 5.59 | 0.1334 |
| | Noncensored Values | 64 | Group | HES | 0.9478 | 0.6756 | -0.3764 | 2.2720 | 1.97 | 0.1607 | | |
| | Right Censored Values | 0 | | CTR | -0.4573 | 0.5456 | -1.5267 | 0.6121 | 0.70 | 0.4020 | | |
| | Left Censored Values | 0 | | AST | 0.9344 | 0.5977 | -0.2370 | 2.1059 | 2.44 | 0.1180 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 1.5432 | 0.1364 | 1.2978 | 1.8351 | | | | |
| IL_4 | Number of Observations | 64 | Intercept | | -2.6603 | 0.7749 | -4.1790 | -1.1415 | 11.79 | 0.0006 | 10.57 | 0.0143 |
| | Noncensored Values | 32 | Group | HES | 2.0901 | 1.7708 | -1.3807 | 5.5609 | 1.39 | 0.2379 | | |
| | Right Censored Values | 0 | | CTR | 4.4827 | 1.4249 | 1.6900 | 7.2754 | 9.90 | 0.0017 | | |
| | Left Censored Values | 32 | | AST | 2.2239 | 1.5792 | -0.8714 | 5.3191 | 1.98 | 0.1591 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 3.7714 | 0.5356 | 2.8550 | 4.9819 | | | | |
| IL_5 | Number of Observations | 64 | Intercept | | -0.0697 | 0.3031 | -0.6638 | 0.5243 | 0.05 | 0.8180 | 4.56 | 0.2068 |
| | Noncensored Values | 64 | Group | HES | 0.7169 | 0.8392 | -0.9279 | 2.3617 | 0.73 | 0.3930 | | |
| | Right Censored Values | 0 | | CTR | -0.3568 | 0.6777 | -1.6851 | 0.9715 | 0.28 | 0.5985 | | |
| | Left Censored Values | 0 | | AST | 1.3449 | 0.7424 | -0.1101 | 2.8000 | 3.28 | 0.0700 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 1.9169 | 0.1694 | 1.6120 | 2.2794 | | | | |
| IL_6 | Number of Observations | 64 | Intercept | | 0.7468 | 0.4449 | -0.1252 | 1.6188 | 2.82 | 0.0932 | 8.41 | 0.0382 |
| | Noncensored Values | 64 | Group | HES | -0.4215 | 1.2319 | -2.8360 | 1.9930 | 0.12 | 0.7322 | | |
| | Right Censored Values | 0 | | CTR | 2.6875 | 0.9948 | 0.7377 | 4.6374 | 7.30 | 0.0069 | | |
| | Left Censored Values | 0 | | AST | 1.1811 | 1.0898 | -0.9548 | 3.3171 | 1.17 | 0.2785 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 2.8138 | 0.2487 | 2.3663 | 3.3461 | | | | |
| IL_7 | Number of Observations | 64 | Intercept | | 1.5757 | 0.2248 | 1.1351 | 2.0163 | 49.14 | <.0001 | 0.63 | 0.8890 |
| | Noncensored Values | 62 | Group | HES | 0.1605 | 0.6220 | -1.0586 | 1.3796 | 0.07 | 0.7964 | | |
| | Right Censored Values | 0 | | CTR | 0.3937 | 0.5023 | -0.5909 | 1.3783 | 0.61 | 0.4332 | | |
| | Left Censored Values | 2 | | AST | 0.0996 | 0.5520 | -0.9822 | 1.1815 | 0.03 | 0.8568 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 1.4206 | 0.1292 | 1.1886 | 1.6979 | | | | |
| IL_8 | Number of Observations | 64 | Intercept | | 3.5016 | 0.1596 | 3.1889 | 3.8144 | 481.56 | <.0001 | 141.77 | <.0001 |
| | Noncensored Values | 64 | Group | HES | -0.2476 | 0.4418 | -1.1136 | 0.6183 | 0.31 | 0.5752 | | |
| | Right Censored Values | 0 | | CTR | 4.1536 | 0.3568 | 3.4543 | 4.8529 | 135.52 | <.0001 | | |
| | Left Censored Values | 0 | | AST | 0.5723 | 0.3909 | -0.1937 | 1.3384 | 2.14 | 0.1431 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 1.0092 | 0.0892 | 0.8487 | 1.2001 | | | | |
| IP_10 | Number of Observations | 64 | Intercept | | 4.6309 | 0.1112 | 4.4129 | 4.8488 | 1733.79 | <.0001 | 5.38 | 0.1459 |
| | Noncensored Values | 64 | Group | HES | -0.3174 | 0.3079 | -0.9210 | 0.2861 | 1.06 | 0.3026 | | |
| | Right Censored Values | 0 | | CTR | 0.0954 | 0.2487 | -0.3920 | 0.5828 | 0.15 | 0.7014 | | |
| | Left Censored Values | 0 | | AST | 0.5153 | 0.2724 | -0.0186 | 1.0492 | 3.58 | 0.0586 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 0.7034 | 0.0622 | 0.5915 | 0.8364 | | | | |
| MCP_1 | Number of Observations | 64 | Intercept | | 6.5046 | 0.0645 | 6.3781 | 6.6310 | 10161.55 | <.0001 | 14.12 | 0.0028 |
| | Noncensored Values | 64 | Group | HES | -0.2026 | 0.1787 | -0.5527 | 0.1476 | 1.29 | 0.2569 | | |
| | Right Censored Values | 0 | | CTR | 0.4802 | 0.1443 | 0.1974 | 0.7630 | 11.08 | 0.0009 | | |
| | Left Censored Values | 0 | | AST | 0.0000 | 0.1581 | -0.3098 | 0.3098 | 0.00 | 0.9998 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 0.4081 | 0.0361 | 0.3432 | 0.4853 | | | | |
| MIP_1a | Number of Observations | 64 | Intercept | | 2.3123 | 0.1993 | 1.9217 | 2.7030 | 134.61 | <.0001 | 48.70 | <.0001 |
| | Noncensored Values | 61 | Group | HES | 0.2962 | 0.5496 | -0.7811 | 1.3735 | 0.29 | 0.5900 | | |
| | Right Censored Values | 0 | | CTR | 3.0718 | 0.4440 | 2.2015 | 3.9421 | 47.86 | <.0001 | | |
| | Left Censored Values | 3 | | AST | 0.9132 | 0.4863 | -0.0400 | 1.8664 | 3.53 | 0.0604 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 1.2547 | 0.1154 | 1.0478 | 1.5025 | | | | |

| Outcome | Label 1 | Num | Parameter | Level1 | Estimate | StdErr | LowerCL | UpperCL | ChiSq | PVal | ChiSq Overall | PVal Overall |
|-----------|--------------------------|-----|-----------|--------|--------------------|-----------------------------|---------|---------|---------|--------|---------------|--------------|
| MIP_1B | Number of Observations | 64 | Intercept | | 4.7136 | 0.1420 | 4.4352 | 4.9920 | 1101.13 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | 0.1706 | 0.3933 | -0.6003 | 0.9414 | 0.19 | 0.6646 | 16.74 | 0.0008 |
| | Right Censored Values | 0 | | CTR | 1.2732 | 0.3176 | 0.6507 | 1.8958 | 16.07 | <.0001 | | |
| | Left Censored Values | 0 | | AST | 0.5134 | 0.3479 | -0.1686 | 1.1953 | 2.18 | 0.1401 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 0.8984 | 0.0794 | 0.7555 | 1.0683 | | | | |
| RANTES | Number of Observations | 64 | Intercept | | 7.0521 | 0.1640 | 6.7307 | 7.3734 | 1849.56 | <.0001 | | |
| | Noncensored Values | 53 | Group | HES | -0.2628 | 0.4501 | -1.1449 | 0.6193 | 0.34 | 0.5593 | 14.58 | 0.0022 |
| | Right Censored Values | 11 | | CTR | 1.4132 | 0.3914 | 0.6461 | 2.1803 | 13.04 | 0.0003 | | |
| | Left Censored Values | 0 | | AST | -0.0036 | 0.4011 | -0.7898 | 0.7825 | 0.00 | 0.9928 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 1.0267 | 0.1045 | 0.8409 | 1.2534 | | | | |
| TNFa | Number of Observations | 64 | Intercept | | 3.2469 | 0.1197 | 3.0123 | 3.4815 | 735.86 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | 0.5696 | 0.3314 | -0.0800 | 1.2192 | 2.95 | 0.0857 | 23.26 | <.0001 |
| | Right Censored Values | 0 | | CTR | 1.2551 | 0.2676 | 0.7305 | 1.7796 | 21.99 | <.0001 | | |
| | Left Censored Values | 0 | | AST | 0.4480 | 0.2932 | -0.1267 | 1.0226 | 2.33 | 0.1265 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 0.7570 | 0.0669 | 0.6366 | 0.9002 | | | | |
| TNFB | Number of Observations | 64 | Intercept | | 0.4783 | 0.6543 | -0.8042 | 1.7607 | 0.53 | 0.4648 | | |
| | Noncensored Values | 42 | Group | HES | 2.5897 | 1.6652 | -0.6740 | 5.8534 | 2.42 | 0.1199 | 6.46 | 0.0914 |
| | Right Censored Values | 0 | | CTR | 1.4114 | 1.3588 | -1.2518 | 4.0747 | 1.08 | 0.2989 | | |
| | Left Censored Values | 22 | | AST | 3.2365 | 1.4723 | 0.3509 | 6.1221 | 4.83 | 0.0279 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 3.7024 | 0.4412 | 2.9312 | 4.6764 | | | | |
| VEGF_A | Number of Observations | 64 | Intercept | | 5.7720 | 0.1400 | 5.4975 | 6.0464 | 1699.20 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | 0.0144 | 0.3877 | -0.7455 | 0.7743 | 0.00 | 0.9704 | 0.85 | 0.8363 |
| | Right Censored Values | 0 | | CTR | 0.2862 | 0.3131 | -0.3275 | 0.8998 | 0.84 | 0.3607 | | |
| | Left Censored Values | 0 | | AST | 0.0806 | 0.3430 | -0.5916 | 0.7529 | 0.06 | 0.8141 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 0.8856 | 0.0783 | 0.7447 | 1.0531 | | | | |
| Eotaxin_2 | Number of Observations | 64 | Intercept | | 7.3087 | 0.1165 | 7.0803 | 7.5371 | 3933.41 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | -0.0651 | 0.3227 | -0.6975 | 0.5674 | 0.04 | 0.8402 | 0.30 | 0.9601 |
| | Right Censored Values | 0 | | CTR | 0.1219 | 0.2606 | -0.3889 | 0.6326 | 0.22 | 0.6400 | | |
| | Left Censored Values | 0 | | AST | 0.0278 | 0.2855 | -0.5317 | 0.5873 | 0.01 | 0.9224 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 0.7370 | 0.0651 | 0.6198 | 0.8764 | | | | |
| TARC | Number of Observations | 64 | Intercept | | 4.9619 | 0.0974 | 4.7711 | 5.1527 | 2597.56 | <.0001 | | |
| | Noncensored Values | 64 | Group | HES | 0.3231 | 0.2696 | -0.2053 | 0.8514 | 1.44 | 0.2307 | 13.06 | 0.0045 |
| | Right Censored Values | 0 | | CTR | -0.6899 | 0.2177 | -1.1166 | -0.2632 | 10.04 | 0.0015 | | |
| | Left Censored Values | 0 | | AST | -0.1121 | 0.2385 | -0.5795 | 0.3553 | 0.22 | 0.6384 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 0.6157 | 0.0544 | 0.5178 | 0.7322 | | | | |
| Eotaxin_3 | Number of Observations | 51 | Intercept | | 2.4227 | 0.2401 | 1.9521 | 2.8932 | 101.83 | <.0001 | | |
| | Noncensored Values | 51 | Group | HES | 0.0680 | 0.6999 | -1.3039 | 1.4399 | 0.01 | 0.9226 | 2.37 | 0.4991 |
| | Right Censored Values | 0 | | CTR | -0.4244 | 0.4802 | -1.3655 | 0.5167 | 0.78 | 0.3767 | | |
| | Left Censored Values | 0 | | AST | 0.5707 | 0.5520 | -0.5111 | 1.6525 | 1.07 | 0.3012 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 1.3150 | 0.1302 | 1.0830 | 1.5966 | | | | |
| TSLP | Number of Observations | 64 | Intercept | | -2.0739 | 1.1506 | -4.3290 | 0.1812 | 3.25 | 0.0715 | | |
| | Noncensored Values | 27 | Group | HES | 1.9617 | 2.5816 | -3.0982 | 7.0215 | 0.58 | 0.4473 | 1.37 | 0.7127 |
| | Right Censored Values | 0 | | CTR | -0.6477 | 2.2445 | -5.0469 | 3.7515 | 0.08 | 0.7729 | | |
| | Left Censored Values | 37 | | AST | 1.9216 | 2.3411 | -2.6668 | 6.5100 | 0.67 | 0.4117 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 5.4502 | 0.8540 | 4.0090 | 7.4097 | | | | |
| IL_33 | Number of Observations | 64 | Intercept | | -3.7957 | 1.7931 | -7.3102 | -0.2812 | 4.48 | 0.0343 | | |
| | Noncensored Values | 18 | Group | HES | -41.621880091.6968 | -157018.4629156935.21930.00 | | | 0.9996 | | 1.33 | 0.7218 |
| | Right Censored Values | 0 | | CTR | -0.3220 | 3.0261 | -6.2530 | 5.6089 | 0.01 | 0.9152 | | |
| | Left Censored Values | 46 | | AST | 3.3770 | 3.0598 | -2.6200 | 9.3740 | 1.22 | 0.2697 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | Scale | | 6.8883 | 1.3663 | 4.6696 | 10.1611 | | | | |

| Outcome | Label 1 | Num | Parameter | Level1 | Estimate | StdErr | LowerCL | UpperCL | ChiSq | PVal | ChiSq Overall | PVal Overall |
|---------|--------------------------|-----|-----------|--------|----------|--------|----------|---------|---------|--------|---------------|--------------|
| IL_23 | Number of Observations | 64 | Intercept | | -3.6298 | 2.2854 | -8.1092 | 0.8495 | 2.52 | 0.1122 | 2.21 | 0.5305 |
| | Noncensored Values | 19 | Group | HES | -4.8383 | 5.7517 | -16.1114 | 6.4348 | 0.71 | 0.4002 | | |
| | Right Censored Values | 1 | | CTR | -0.7371 | 4.0294 | -8.6346 | 7.1604 | 0.03 | 0.8549 | | |
| | Left Censored Values | 44 | | AST | 4.3836 | 4.0605 | -3.5749 | 12.3421 | 1.17 | 0.2803 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | 9.2397 | 1.8053 | 6.3001 | 13.5510 | | | | |
| TRAIL | Number of Observations | 64 | Intercept | | 3.2610 | 0.1517 | 2.9637 | 3.5584 | 461.92 | <.0001 | 13.73 | 0.0033 |
| | Noncensored Values | 62 | Group | HES | 0.7546 | 0.4195 | -0.0677 | 1.5769 | 3.23 | 0.0721 | | |
| | Right Censored Values | 0 | | CTR | 0.9990 | 0.3388 | 0.3348 | 1.6631 | 8.69 | 0.0032 | | |
| | Left Censored Values | 2 | | AST | 0.9126 | 0.3712 | 0.1851 | 1.6401 | 6.05 | 0.0139 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | 0.9581 | 0.0871 | 0.8016 | 1.1451 | | | | |
| IL_18 | Number of Observations | 64 | Intercept | | 3.0840 | 0.1207 | 2.8473 | 3.3206 | 652.36 | <.0001 | 1.00 | 0.8022 |
| | Noncensored Values | 64 | Group | HES | 0.3309 | 0.3343 | -0.3244 | 0.9862 | 0.98 | 0.3223 | | |
| | Right Censored Values | 0 | | CTR | 0.0732 | 0.2700 | -0.4560 | 0.6023 | 0.07 | 0.7864 | | |
| | Left Censored Values | 0 | | AST | 0.0660 | 0.2958 | -0.5136 | 0.6457 | 0.05 | 0.8233 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | 0.7636 | 0.0675 | 0.6422 | 0.9081 | | | | |
| sIL2Ra | Number of Observations | 64 | Intercept | | 7.1327 | 0.1255 | 6.8867 | 7.3786 | 3230.87 | <.0001 | 6.83 | 0.0775 |
| | Noncensored Values | 64 | Group | HES | -0.6601 | 0.3475 | -1.3410 | 0.0209 | 3.61 | 0.0575 | | |
| | Right Censored Values | 0 | | CTR | -0.5619 | 0.2806 | -1.1119 | -0.0120 | 4.01 | 0.0452 | | |
| | Left Censored Values | 0 | | AST | -0.3263 | 0.3074 | -0.9288 | 0.2761 | 1.13 | 0.2884 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | 0.7936 | 0.0701 | 0.6674 | 0.9438 | | | | |
| sRAGE | Number of Observations | 64 | Intercept | | 4.2039 | 0.1978 | 3.8163 | 4.5915 | 451.81 | <.0001 | 0.20 | 0.9774 |
| | Noncensored Values | 64 | Group | HES | -0.2216 | 0.5476 | -1.2949 | 0.8517 | 0.16 | 0.6857 | | |
| | Right Censored Values | 0 | | CTR | -0.0358 | 0.4422 | -0.9026 | 0.8309 | 0.01 | 0.9354 | | |
| | Left Censored Values | 0 | | AST | -0.1215 | 0.4844 | -1.0710 | 0.8280 | 0.06 | 0.8020 | | |
| | Interval Censored Values | 0 | | ACT | 0.0000 | | | | | | | |
| | | | | Scale | 1.2508 | 0.1106 | 1.0519 | 1.4874 | | | | |