**Suppl 1.** **Demographics, laboratory studies, and iron status in High Altitude Anemia and High Altitude Erythrocytosis patients.**

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| **Baseline Variable** | **High Altitude Anemia** | | **High Altitude Erythrocytosis** | | **P-Value** |
| **Median (IQR) or No. (%)** | **N** | **Median (IQR) or No. (%)** | **N** |
| Age (years) | 43 (33 - 55) | 137 | 55 (49 - 64) | 149 | <0.001 |
| Female gender | 118(86.1%) | 137 | 44(29.5%) | 149 | <0.001 |
| MCV (fL) | 71.4 (62.2 - 88.7) | 137 | 89.3 (79 - 93.4) | 149 | <0.001 |
| WBC (per uL) | 5400 (4420 - 6600) | 137 | 6030 (4980 - 7250) | 149 | 0.0076 |
| Neutrophils (per uL) | 3200 (2500 - 3910) | 137 | 3620 (2900 - 4520) | 149 | 0.054 |
| Lymphocytes (per uL) | 1660 (1230 - 2120) | 137 | 1980 (1500 - 2300) | 149 | <0.001 |
| Platelets (x103/uL) | 322 (249 - 415) | 136 | 177 (145 - 206) | 149 | <0.001 |
| Iron (ug/dL) | 30 (18 - 74) | 121 | 85.9 (57 - 118.2) | 148 | <0.001 |
| Ferritin (ng/mL) | 15 (4 - 64) | 137 | 49 (21.3 - 116) | 149 | <0.001 |
| Iron deficiency | 78(56.9%) | 137 | 34(22.8%) | 149 | <0.001 |
| Transferrin (mg/dL) | 310 (210 - 401) | 137 | 339 (294 - 371) | 149 | 0.037 |
| History of thrombosis | 11(8.03%) | 137 | 19(12.8%) | 149 | 0.25 |
| History of venous thrombosis | 7(5.11%) | 137 | 13(8.72%) | 149 | 0.25 |
| History of arterial thrombosis | 5(3.65%) | 137 | 6(4.03%) | 149 | 1 |