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| Supplemental Table 2- Average squared error per MAP value in exponential with theta model training and validation datasets for identified 36 subgroups. |
| ID | Mean SE per MAP Proportion- Training | Mean SE per MAP Proportion- Validation |
| **0\_1\_Female\_Q1** | 2.70E-05 | 1.38E-04 |
| **0\_1\_Male\_Q1** | 2.14E-05 | 3.15E-05 |
| **0\_2\_Female\_Q1** | 1.14E-05 | 6.19E-05 |
| **0\_2\_Female\_Q2** | 9.49E-06 | 2.03E-04 |
| **0\_2\_Female\_Q3** | 3.40E-05 | 7.27E-05 |
| **0\_2\_Female\_Q4** | 4.66E-05 | 1.09E-04 |
| **0\_2\_Male\_Q1** | 1.06E-05 | 3.53E-05 |
| **0\_2\_Male\_Q2** | 1.83E-05 | 7.18E-05 |
| **0\_2\_Male\_Q3** | 1.49E-05 | 4.45E-05 |
| **0\_2\_Male\_Q4** | 5.26E-05 | 9.37E-05 |
| **0\_3\_Female\_Q1** | 1.03E-05 | 1.61E-04 |
| **0\_3\_Female\_Q2** | 1.17E-05 | 9.60E-05 |
| **0\_3\_Female\_Q3** | 1.44E-05 | 9.51E-05 |
| **0\_3\_Female\_Q4** | 1.29E-05 | 1.54E-04 |
| **0\_3\_Male\_Q1** | 1.11E-05 | 1.80E-04 |
| **0\_3\_Male\_Q2** | 5.52E-06 | 8.59E-05 |
| **0\_3\_Male\_Q3** | 8.45E-06 | 2.05E-04 |
| **0\_3\_Male\_Q4** | 6.26E-06 | 2.23E-04 |
| **0\_4\_Female\_Q1** | 3.18E-05 | 7.12E-05 |
| **0\_4\_Female\_Q2** | 2.78E-05 | 1.38E-04 |
| **0\_4\_Female\_Q3** | 3.85E-05 | 1.01E-04 |
| **0\_4\_Female\_Q4** | 3.09E-05 | 6.33E-05 |
| **0\_4\_Male\_Q1** | 4.95E-05 | 9.75E-05 |
| **0\_4\_Male\_Q2** | 2.26E-05 | 4.95E-05 |
| **0\_4\_Male\_Q3** | 2.85E-05 | 2.79E-04 |
| **0\_4\_Male\_Q4** | 2.52E-05 | 7.35E-05 |
| **1\_2\_Male\_Q1** | 1.89E-05 | 1.41E-04 |
| **1\_3\_Female\_Q4** | 4.63E-05 | 1.08E-04 |
| **1\_3\_Male\_Q1** | 4.95E-05 | 1.78E-04 |
| **1\_3\_Male\_Q2** | 3.72E-05 | 9.56E-05 |
| **1\_3\_Male\_Q3** | 4.76E-05 | 1.32E-04 |
| **1\_3\_Male\_Q4** | 6.84E-05 | 7.53E-05 |
| **1\_4\_Male\_Q1** | 7.38E-05 | 1.29E-04 |
| **1\_4\_Male\_Q2** | 8.22E-05 | 1.23E-04 |
| **1\_4\_Male\_Q3** | 5.99E-05 | 1.00E-04 |
| **1\_4\_Male\_Q4** | 9.10E-05 | 8.64E-05 |