Table 3: Summary of Outputs from Linear Regression Modeling

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Factors Included | r2 | β | F-statistic | Standard Error of Estimate | p-value of model | Predicted Modified Mankin Score |
| Model  | Factor 1 | Factor 2 |  | Mean | CI Lower Limit | CI Upper Limit |  |  |  | Mean | CI lower limit | CI upper limit  |
| *A* | *Methano-brevibacter* spp. | *Lacto-bacillus*spp. | 0.50 | 30.3 | 17.6 | 41.7 | 7.7 | 9.8 | 0.04 | 46.2 | 40.9 | 51.5 |
| *B* | *Methano-brevibacter*spp. |  Body Fat Percentage | 0.37 | 12.7 | -10.3 | 35.7 | 5.3 | 10.6 | 0.16 | 46.2 | 40.9 | 51.5 |
| *C* | *Methano-brevibacter*spp. | Leptin SF | 0.34 | 23.2 | 6.3 | 40.0 | 3.0 | 10.8 | 0.023 | 46.2 | 40.1 | 51.2 |
| *D* | *Lacto-**bacillus*spp. | Body Fat Percentage | 0.21 | 44.1 | 11.7 | 76.5 | 2.3 | 11.9 | 0.13 | 46.2 | 40.9 | 51.1 |
| *E* | *Lacto-**bacillus*spp. | Leptin | 0.27 | 57.2 | 42.9 | 71.5 | 3.2 | 11.2 | 0.67 | 45.4 | 40.0 | 50.6 |
| F | Leptin | Leptin SF | 0.17 | 44.1 | 31.9 | 56.3 | 1.7 | 11.9 | 0.2 | 45.4 | 39.9 | 50.6 |
| G | Body Fat Percentage | Leptin SF | 0.16 | 32.9 | 8.4 | 57.4 | 1.7 | 12.3 | 0.2 | 46.2 | 40.1 | 51.7 |