Table 1. LME with all samples and all variables

|  |  |  |
| --- | --- | --- |
| Variable | Shannon’s Diversity Index | Faith’s Phylogenetic Diversity |
| Glucosamine | <0.001\* | 0.005\* |
| Age | 0.012\* | 0.071† |
| Sex | 0.127 | 0.584 |
| Breed | 0.830 | 0.226 |
| Diet | 0.978 | 0.750 |
| Injuries | 0.763 | 0.879 |
| Exercise | 0.473 | 0.441 |

|  |  |  |
| --- | --- | --- |
| Variable | Shannon’s Diversity Index | Faith’s Phylogenetic Diversity |
| Glucosamine | 0.032\* | 0.116 |
| Age | 0.188 | 0.318 |
| Sex | 0.497 | 0.434 |
| Breed | 0.977 | 0.235 |
| Diet | 0.744 | 0.860 |
| Injuries | 0.976 | 0.287 |

Table 2A. regression in pre-exercise subgroup

Table 2B. regression in post-exercise subgroup

|  |  |  |
| --- | --- | --- |
| Variable | Shannon’s Diversity Index | Faith’s Phylogenetic Diversity |
| Glucosamine | 0.011\* | 0.026\* |
| Age | 0.037\* | 0.120 |
| Sex | 0.153 | 0.180 |
| Breed | 0.607 | 0.589 |
| Diet | 0.758 | 0.772 |
| Injuries | 0.565 | 0.498 |

Table 2C. regression in yes-glucosamine subgroup

|  |  |  |
| --- | --- | --- |
| Variable | Shannon’s Diversity Index | Faith’s Phylogenetic Diversity |
| Exercise | 0.368 | 0.013\* |
| Age | 0.742 | 0.065† |
| Sex | 0.002\* | 0.405 |
| Diet | 0.051† | 0.023\* |

Table 2D. regression in no-glucosamine subgroup

|  |  |  |
| --- | --- | --- |
| Variable | Shannon’s Diversity Index | Faith’s Phylogenetic Diversity |
| Exercise | 0.763 | 0.922 |
| Age | 0.006\* | 0.059† |
| Sex | 0.047\* | 0.490 |
| Breed | 0.624 | 0.262 |
| Injuries | 0.330 | 0.803 |