

Supplementary Table 1. Comparison of the relative abundances at the genus level between the no-medication and control groups.

| Genus | NM group (n=65) Relative abundance (%) | Control group (n=18) Relative abundance (%) | P-value |
|--|--|---|---------|
| <i>Megasphaera</i> | 0.835±2.803 | 0±0 | 0.013 |
| <i>Sneathia</i> | 0.572±2.144 | 0±0 | 0.051 |
| <i>Gemella</i> | 0.017±0.062 | 0±0 | 0.078 |
| <i>Rhodococcus</i> | 0.050±0.165 | 0.137±0.311 | 0.012 |
| <i>Burkholderia–Caballeroni a–Paraburkholderia</i> | 0.005±0.014 | 0.285±1.164 | 0.000 |
| <i>Pseudomonas</i> | 0.022±0.110 | 1.961±8.312 | 0.032 |
| <i>Bacteria_unclassified</i> | 0.015±0.033 | 0.038±0.054 | 0.007 |
| <i>Sphingomonas</i> | 0.012±0.056 | 0.014±0.023 | 0.003 |
| <i>Corynebacterium_1</i> | 0.003±0.004 | 0.002±0.008 | 0.038 |
| <i>Staphylococcus</i> | 0.001±0.003 | 0.049±0.193 | 0.029 |
| <i>Sediminibacterium</i> | 0±0.002 | 0.004±0.009 | 0.001 |
| <i>Pelomonas</i> | 0±0.000 | 0.007±0.022 | 0.049 |
| <i>Cutibacterium</i> | 0±0 | 0.002±0.005 | 0.016 |
| <i>0319–6G20_norank</i> | 0±0 | 0.001±0.004 | 0.031 |
| <i>BD7–11_norank</i> | 0±0 | 0.002±0.006 | 0.001 |
| <i>Obscuribacterales_norank</i> | 0±0 | 0±0.002 | 0.007 |
| <i>Sulfuritalea</i> | 0±0 | 0±0.002 | 0.009 |

NM, no medication.