

Supplementary Table S9. ICU-COV(+) (tracheal aspirates vs rectal swabs) (MaAsLin2 test)

|                                                                                                                 | feature           | metadata              | value      | coef       | sdterr | N  | Nnot0      | pval       | qval |
|-----------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|------------|------------|--------|----|------------|------------|------|
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_Bacteroides_                        | SampleStatus_type | ICU-COV(+) Patient_TA | -8.2867712 | 0.59964401 | 71     | 47 | 1.48E-21   | 3.33E-20   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Lachnospiraceae.g_                                       | SampleStatus_type | ICU-COV(+) Patient_TA | -7.8550433 | 0.48991425 | 71     | 50 | 2.83E-24   | 1.77E-24   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Ruminococcaceae.g_                                       | SampleStatus_type | ICU-COV(+) Patient_TA | -6.0496189 | 0.37191844 | 71     | 46 | 2.83E-25   | 1.18E-23   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.g_                                                         | SampleStatus_type | ICU-COV(+) Patient_TA | -5.9741136 | 0.48075646 | 71     | 51 | 2.85E-19   | 4.27E-18   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Ruminococcaceae.g_                                       | SampleStatus_type | ICU-COV(+) Patient_TA | -5.909147  | 0.41623116 | 71     | 45 | 3.72E-22   | 1.00E-20   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Tissierellaceae.g_Peptoniphilus_                         | SampleStatus_type | ICU-COV(+) Patient_TA | -5.7310987 | 0.30458081 | 71     | 47 | 7.05E-29   | 9.51E-27   |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Rikenellaceae.g_                                     | SampleStatus_type | ICU-COV(+) Patient_TA | -5.229847  | 0.38486287 | 71     | 47 | 3.23E-23   | 1.37E-21   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Tissierellaceae.g_WAL_1855D_                             | SampleStatus_type | ICU-COV(+) Patient_TA | -5.3869374 | 0.75890627 | 71     | 34 | 8.82E-10   | 3.61E-09   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Tissierellaceae.g_Anaerococcus_                          | SampleStatus_type | ICU-COV(+) Patient_TA | -5.2724613 | 0.42272478 | 71     | 44 | 2.39E-19   | 4.03E-18   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Ruminococcaceae.g_Ocillospira_                           | SampleStatus_type | ICU-COV(+) Patient_TA | -5.1699504 | 0.53504271 | 71     | 40 | 1.88E-14   | 1.82E-13   |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Porphyromonadaceae.g_Parabacteroides_s_distans_      | SampleStatus_type | ICU-COV(+) Patient_TA | -4.9272263 | 0.75075509 | 71     | 31 | 8.16E-09   | 2.62E-08   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Tissierellaceae.g_Fingohidia_                            | SampleStatus_type | ICU-COV(+) Patient_TA | -4.8842784 | 0.36075166 | 71     | 36 | 6.09E-21   | 8.07E-20   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Lachnospiraceae.g_Blaustia_                              | SampleStatus_type | ICU-COV(+) Patient_TA | -4.8783308 | 0.61109291 | 71     | 35 | 2.13E-11   | 1.20E-10   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Lachnospiraceae.g_Blaustia_                              | SampleStatus_type | ICU-COV(+) Patient_TA | -4.8630045 | 0.54052463 | 71     | 38 | 3.02E-13   | 2.40E-12   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Ruminococcaceae.g_Ruminococcus_                          | SampleStatus_type | ICU-COV(+) Patient_TA | -4.520925  | 0.63641201 | 71     | 34 | 8.62E-10   | 3.81E-09   |      |
| k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomycetales.f_Actinomycetaceae.g_Varibaculum_                | SampleStatus_type | ICU-COV(+) Patient_TA | -4.4515591 | 0.41307728 | 71     | 42 | 1.95E-16   | 2.63E-15   |      |
| k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomycetales.f_Actinomycetaceae.g_                            | SampleStatus_type | ICU-COV(+) Patient_TA | -4.3893282 | 0.61071765 | 71     | 35 | 6.09E-21   | 2.74E-09   |      |
| k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomycetales.f_Corynebacteriaceae.g_Corynebacterium_          | SampleStatus_type | ICU-COV(+) Patient_TA | -4.3564675 | 0.69045142 | 71     | 56 | 4.49E-09   | 7.70E-08   |      |
| k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Desulfobirionales.f_Desulfobirionaceae.g_Biophila_          | SampleStatus_type | ICU-COV(+) Patient_TA | -4.3359029 | 0.44577313 | 71     | 39 | 1.44E-14   | 1.50E-13   |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Odoribacteraceae.g_Butyricimonas_                    | SampleStatus_type | ICU-COV(+) Patient_TA | -4.3292919 | 0.57359586 | 71     | 36 | 1.64E-11   | 9.60E-11   |      |
| k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.g_Verrucomicrobiaceae.g_Akkermansia_s_muciniphila_              | SampleStatus_type | ICU-COV(+) Patient_TA | -4.3039086 | 0.74479425 | 71     | 32 | 1.99E-07   | 5.99E-07   |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_S24.7_                                               | SampleStatus_type | ICU-COV(+) Patient_TA | -4.2642052 | 0.71444101 | 71     | 31 | 2.22E-07   | 6.11E-07   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Ruminococcaceae.g_Ruminococcus_                          | SampleStatus_type | ICU-COV(+) Patient_TA | -4.223847  | 0.47707324 | 71     | 41 | 1.52E-06   | 3.72E-05   |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Porphyromonadaceae.g_Porphyromonas_                  | SampleStatus_type | ICU-COV(+) Patient_TA | -4.1896795 | 0.53523881 | 71     | 52 | 4.13E-11   | 2.23E-10   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Tissierellaceae.g_                                       | SampleStatus_type | ICU-COV(+) Patient_TA | -4.15535   | 0.63522827 | 71     | 31 | 7.95E-09   | 2.62E-08   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Veillonellaceae.g_Dialister_                             | SampleStatus_type | ICU-COV(+) Patient_TA | -4.0904659 | 0.49205357 | 71     | 50 | 5.35E-12   | 3.28E-11   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Lachnospiraceae.g_                                       | SampleStatus_type | ICU-COV(+) Patient_TA | -4.0824435 | 0.44343859 | 71     | 51 | 1.26E-13   | 1.06E-12   |      |
| k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Desulfobirionales.f_Desulfobirionaceae.g_Desulfobirio_      | SampleStatus_type | ICU-COV(+) Patient_TA | -4.046626  | 0.59304937 | 71     | 32 | 3.47E-09   | 1.30E-08   |      |
| k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Burkholderiales.f_Alcaligenaceae.g_Sutterella_               | SampleStatus_type | ICU-COV(+) Patient_TA | -3.9809993 | 0.46519295 | 71     | 29 | 1.52E-06   | 4.29E-05   |      |
| k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enterobacteriales.f_Enterobacteriaceae.g_                   | SampleStatus_type | ICU-COV(+) Patient_TA | -3.9572583 | 0.56343632 | 71     | 38 | 1.21E-09   | 4.65E-09   |      |
| k_Bacteria.p_Actinobacteria.c_Coribacteriales.o_Coribacteriales.f_Coribacteriaceae.g_                           | SampleStatus_type | ICU-COV(+) Patient_TA | -3.9526458 | 0.41217575 | 71     | 43 | 2.55E-14   | 2.29E-13   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Veillonellaceae.g_Phacelarcobacterium_                   | SampleStatus_type | ICU-COV(+) Patient_TA | -3.7926764 | 0.70736312 | 71     | 26 | 1.03E-06   | 2.63E-06   |      |
| k_Bacteria.p_Firmicutes.c_Erysipelotrichi.o_Erysipelotrichales.f_Erysipelotrichaceae.g_                         | SampleStatus_type | ICU-COV(+) Patient_TA | -3.7505981 | 0.56346387 | 71     | 33 | 5.50E-09   | 1.87E-08   |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Prevotellaceae.g_Prevotella_                         | SampleStatus_type | ICU-COV(+) Patient_TA | -3.7457344 | 0.55858441 | 71     | 65 | 4.49E-09   | 7.70E-08   |      |
| k_Bacteria.p_Actinobacteria.c_Coribacteriales.o_Coribacteriales.f_Coribacteriaceae.g_Collinsella_aerofaciens_   | SampleStatus_type | ICU-COV(+) Patient_TA | -3.7194349 | 0.51509247 | 71     | 33 | 5.28E-10   | 2.46E-09   |      |
| k_Bacteria.p_Proteobacteria.c_Epsilonproteobacteria.o_Campylobacteriales.f_Campylobacteraceae.g_Campylobacter_  | SampleStatus_type | ICU-COV(+) Patient_TA | -3.6980476 | 0.52055091 | 71     | 57 | 8.61E-10   | 3.81E-09   |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_Bacteroides_s_uniformis_            | SampleStatus_type | ICU-COV(+) Patient_TA | -3.6643325 | 0.35922584 | 71     | 40 | 2.04E-15   | 2.51E-14   |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Porphyromonadaceae.g_Parabacteroides_                | SampleStatus_type | ICU-COV(+) Patient_TA | -3.4066543 | 0.36825817 | 71     | 38 | 3.60E-13   | 4.29E-12   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Christensenellaceae.g_Christensenella_                   | SampleStatus_type | ICU-COV(+) Patient_TA | -3.3553536 | 0.3749566  | 71     | 29 | 1.52E-06   | 3.72E-05   |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Odoribacteraceae.g_Odoribacter_                      | SampleStatus_type | ICU-COV(+) Patient_TA | -3.2294475 | 0.44507413 | 71     | 35 | 4.56E-10   | 2.28E-09   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Peptostreptococcaceae.g_                                 | SampleStatus_type | ICU-COV(+) Patient_TA | -2.9723728 | 0.68467198 | 71     | 22 | 4.75E-05   | 8.79E-05   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Lachnospiraceae.g_Faecalibacterium_s_prausnitzii_        | SampleStatus_type | ICU-COV(+) Patient_TA | -2.7309236 | 0.36386706 | 71     | 35 | 1.60E-10   | 8.32E-10   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Mogibacteriaceae.g_                                      | SampleStatus_type | ICU-COV(+) Patient_TA | -2.7053046 | 0.60293829 | 71     | 48 | 2.81E-05   | 5.66E-05   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Tissierellaceae.g_pH2_                                   | SampleStatus_type | ICU-COV(+) Patient_TA | -2.6378576 | 0.37644688 | 71     | 29 | 2.03E-05   | 2.63E-05   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Ruminococcaceae.g_Ocillospira_                           | SampleStatus_type | ICU-COV(+) Patient_TA | -2.618795  | 0.47082229 | 71     | 30 | 5.94E-07   | 1.47E-06   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Lachnospiraceae.g_Lachnospira_                           | SampleStatus_type | ICU-COV(+) Patient_TA | -2.5075507 | 0.63868142 | 71     | 23 | 0.0002183  | 0.0003369  |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Lachnospiraceae.g_Coprococcus_                           | SampleStatus_type | ICU-COV(+) Patient_TA | -2.4597653 | 0.60334565 | 71     | 21 | 0.0012041  | 0.00021389 |      |
| k_Bacteria.p_Firmicutes.c_Erysipelotrichi.o_Erysipelotrichales.f_Erysipelotrichaceae.g_Eubacterium_s_dolichum_  | SampleStatus_type | ICU-COV(+) Patient_TA | -2.3845685 | 0.53556361 | 71     | 24 | 3.19E-05   | 6.23E-05   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Ruminococcaceae.g_Faecalibacterium_s_                    | SampleStatus_type | ICU-COV(+) Patient_TA | -2.3316698 | 0.45738796 | 71     | 27 | 2.87E-06   | 6.69E-06   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Lachnospiraceae.g_                                       | SampleStatus_type | ICU-COV(+) Patient_TA | -2.311736  | 0.57587298 | 71     | 26 | 0.0001301  | 0.00025046 |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Lachnospiraceae.g_Ruminococcus_                          | SampleStatus_type | ICU-COV(+) Patient_TA | -2.2880445 | 0.42083252 | 71     | 27 | 7.70E-07   | 2.00E-06   |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Barnesiellaceae.g_                                   | SampleStatus_type | ICU-COV(+) Patient_TA | -2.2717864 | 0.35528269 | 71     | 33 | 1.63E-08   | 4.90E-08   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Clostridiaceae.g_Clostridium_                            | SampleStatus_type | ICU-COV(+) Patient_TA | -2.2667556 | 0.56762195 | 71     | 21 | 0.0016048  | 0.00027423 |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Prevotellaceae.g_Prevotella_s_copri_                 | SampleStatus_type | ICU-COV(+) Patient_TA | -2.2303709 | 0.64004629 | 71     | 21 | 0.0006657  | 0.0012628  |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Porphyromonadaceae.g_Porphyromonas_s_endodontalis_   | SampleStatus_type | ICU-COV(+) Patient_TA | -2.1619045 | 0.45615911 | 71     | 26 | 7.11E-06   | 1.60E-05   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Clostridiaceae.g_                                        | SampleStatus_type | ICU-COV(+) Patient_TA | -2.1837105 | 0.4712625  | 71     | 28 | 1.70E-06   | 4.11E-06   |      |
| k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Desulfobirionales.f_Desulfobirionaceae.g_                   | SampleStatus_type | ICU-COV(+) Patient_TA | -2.1827859 | 0.44443493 | 71     | 26 | 5.84E-06   | 1.34E-05   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Christensenellaceae.g_                                   | SampleStatus_type | ICU-COV(+) Patient_TA | -2.1780044 | 0.51191825 | 71     | 23 | 6.47E-05   | 0.00011479 |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_Bacteroides_s_fragilis_             | SampleStatus_type | ICU-COV(+) Patient_TA | -2.1579691 | 0.48599914 | 71     | 25 | 3.33E-05   | 6.42E-05   |      |
| k_Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Lactobacillaceae.g_Lactobacillus_                         | SampleStatus_type | ICU-COV(+) Patient_TA | -2.1105568 | 0.5611187  | 71     | 19 | 0.00035075 | 0.0005506  |      |
| k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomycetales.f_Actinomycetaceae.g_Arcanobacterium_            | SampleStatus_type | ICU-COV(+) Patient_TA | -2.0827869 | 0.57677767 | 71     | 18 | 0.0003567  | 0.00057892 |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Veillonellaceae.g_Megasphaera_                           | SampleStatus_type | ICU-COV(+) Patient_TA | -2.0178426 | 0.77820436 | 71     | 30 | 0.0160862  | 0.01362751 |      |
| k_Archaea.p_Euryarchaeota.c_Methanobacteria.o_Methanobacteriales.f_Methanobacteriaceae.g_Methanobrevibacter_    | SampleStatus_type | ICU-COV(+) Patient_TA | -1.9677717 | 0.43377814 | 71     | 24 | 2.35E-04   | 4.81E-05   |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Paraprevotellaceae.g_Paraprevotella_                 | SampleStatus_type | ICU-COV(+) Patient_TA | -1.9627792 | 0.50866281 | 71     | 20 | 0.00025345 | 0.00040252 |      |
| k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_RF32_                                                       | SampleStatus_type | ICU-COV(+) Patient_TA | -1.9418407 | 0.50086066 | 71     | 20 | 0.00023834 | 0.00038308 |      |
| k_Bacteria.p_Lentisphaerae.c_Lentisphaera.o_Vectriales.f_Vectriellaceae.g_                                      | SampleStatus_type | ICU-COV(+) Patient_TA | -1.839306  | 0.49198613 | 71     | 21 | 0.00014471 | 0.00025046 |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Peptococcaceae.g_Peptococcus_                            | SampleStatus_type | ICU-COV(+) Patient_TA | -1.8767444 | 0.40170859 | 71     | 30 | 2.10E-05   | 4.37E-05   |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Mogibacteriaceae.g_Mogibacterium_                        | SampleStatus_type | ICU-COV(+) Patient_TA | -1.8005643 | 0.80000114 | 71     | 38 | 0.02759401 | 0.03004187 |      |
| k_Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Enterococcaceae.g_Enterococcus_                           | SampleStatus_type | ICU-COV(+) Patient_TA | -1.7137134 | 0.4387927  | 71     | 20 | 0.00021643 | 0.00035203 |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_Bacteroides_                        | SampleStatus_type | ICU-COV(+) Patient_TA | -1.664182  | 0.61751904 | 71     | 12 | 0.0083467  | 0.01055469 |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_Bacteroides_s_caccae_               | SampleStatus_type | ICU-COV(+) Patient_TA | -1.639056  | 0.3381976  | 71     | 25 | 0.00066545 | 0.00099968 |      |
| k_Bacteria.p_Synergistetes.c_Synergistales.o_Synergistales.f_Dethiosulfolobionaceae.g_                          | SampleStatus_type | ICU-COV(+) Patient_TA | -1.537473  | 0.41330071 | 71     | 18 | 0.00066545 | 0.00099968 |      |
| k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomycetales.f_Actinomycetaceae.g_Actinobaculum_              | SampleStatus_type | ICU-COV(+) Patient_TA | -1.5324023 | 0.52698666 | 71     | 14 | 0.0048967  | 0.00634717 |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Lachnospiraceae.g_Dorea_                                 | SampleStatus_type | ICU-COV(+) Patient_TA | -1.462538  | 0.51580998 | 71     | 13 | 0.0059998  | 0.00761448 |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Prevotellaceae.g_Prevotella_s_stercora_              | SampleStatus_type | ICU-COV(+) Patient_TA | -1.4599315 | 0.56545585 | 71     | 11 | 0.01195326 | 0.0139112  |      |
| k_Bacteria.p_Firmicutes.c_Erysipelotrichi.o_Erysipelotrichales.f_Erysipelotrichaceae.g_Eubacterium_s_biforme_   | SampleStatus_type | ICU-COV(+) Patient_TA | -1.4433069 | 0.38684006 | 71     | 21 | 0.00021003 | 0.00037878 |      |
| k_Bacteria.p_Actinobacteria.c_Coribacteriales.o_Coribacteriales.f_Coribacteriaceae.g_Eggerthella_s_lenta_       | SampleStatus_type | ICU-COV(+) Patient_TA | -1.4139975 | 0.37808077 | 71     | 19 | 0.00037649 | 0.00058421 |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Lachnospiraceae.g_Coprococcus_                           | SampleStatus_type | ICU-COV(+) Patient_TA | -1.4089167 | 0.3207881  | 71     | 23 | 3.96E-05   | 7.53E-05   |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Paraprevotellaceae.g_                                | SampleStatus_type | ICU-COV(+) Patient_TA | -1.3183904 | 0.47988387 | 71     | 12 | 0.00759521 | 0.00926216 |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Tissierellaceae.g_pH2_                                   | SampleStatus_type | ICU-COV(+) Patient_TA | -1.2771052 | 0.38877408 | 71     | 17 | 0.00092149 | 0.00133675 |      |
| k_Bacteria.p_Actinobacteria.c_Coribacteriales.o_Coribacteriales.f_Coribacteriaceae.g_Collinsella_               | SampleStatus_type | ICU-COV(+) Patient_TA | -1.2765225 | 0.46107798 | 71     | 13 | 0.00722445 | 0.00886838 |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Tissierellaceae.g_Gallitella_                            | SampleStatus_type | ICU-COV(+) Patient_TA | -1.271658  | 0.42822161 | 71     | 14 | 0.0040948  | 0.0053178  |      |
| k_Bacteria.p_Actinobacteria.c_Coribacteriales.o_Coribacteriales.f_Coribacteriaceae.g_Slackia_                   | SampleStatus_type | ICU-COV(+) Patient_TA | -1.2668602 | 0.37355017 | 71     | 18 | 0.00115511 | 0.00162578 |      |
| k_Bacteria.p_Synergistetes.c_Synergistales.o_Synergistales.f_Synergistaceae.g_Synergistes_                      | SampleStatus_type | ICU-COV(+) Patient_TA | -1.2076852 | 0.42998742 | 71     | 12 | 0.00646527 | 0.00815712 |      |
| k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Bifidobacteriales.f_Bifidobacteriaceae.g_Bifidobacterium_        | SampleStatus_type | ICU-COV(+) Patient_TA | -1.1415674 | 0.33856356 | 71     | 16 | 0.00122715 | 0.00170729 |      |
| k_Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Lactobacillaceae.g_Lactobacillus_s_iners_                 | SampleStatus_type | ICU-COV(+) Patient_TA | -1.129518  | 0.32763328 | 71     | 17 | 0.00096802 | 0.00139875 |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Lachnospiraceae.g_Dorea_                                 | SampleStatus_type | ICU-COV(+) Patient_TA | -1.1179459 | 0.32907674 | 71     | 17 | 0.00115511 | 0.00162578 |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.g_                                                     | SampleStatus_type | ICU-COV(+) Patient_TA | -1.1043976 | 0.44075483 | 71     | 18 | 0.01458418 | 0.01654507 |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Peptostreptococcaceae.g_Peptostreptococcus_s_anaerobius_ | SampleStatus_type | ICU-COV(+) Patient_TA | -1.0164753 | 0.36349242 | 71     | 13 | 0.00668887 | 0.00836108 |      |
| k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Veillonellaceae.g_Acidimnoccoccus_                       | SampleStatus_type | ICU-COV(+) Patient_TA | -1.0151045 | 0.33589868 | 71     | 14 | 0.00352101 | 0.00466015 |      |
| k_Bacteria.p_Firmicutes.c_Erysipelotrichi.o_Erysipelotrichales.f_Erysipelotrichaceae.g_Gatenibacterium_         | SampleStatus_type | ICU-COV(+) Patient_TA | -0.9399918 | 0.36882142 | 71     | 11 | 0.0130431  | 0.0149222  |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_Bacteroides_s_gibbus_               | SampleStatus_type | ICU-COV(+) Patient_TA | -0.9171034 | 0.44439506 | 71     | 13 | 0.0426232  | 0.04585962 |      |
| k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_Bacteroides_s_ovatus_               |                   |                       |            |            |        |    |            |            |      |