

**S1 Table: Fifteen most abundant taxa in different sample types on genus level**

Sample type	Genus	Number of samples (%)*	Relative abundance in %				
			Mean	SD	Median	Min	Max
CU (n=63)	<i>Lactobacillus</i>	61 (98.8)	49.7	37.7	49.7	0.0	100.0
	<i>Gardnerella</i>	32 (50.8)	8.4	16.5	0.1	0.0	64.7
	<i>Pseudarcobacter</i>	60 (95.2)	3.7	3.7	2.2	0.0	12.1
	<i>Pseudomonas</i>	56 (88.9)	2.6	2.8	1.3	0.0	8.9
	<i>Aeromonas</i>	58 (92.0)	2.4	2.5	1.3	0.0	7.8
	<i>Shewanella</i>	57 (90.5)	1.7	1.8	1.0	0.0	6.6
	<i>Bacteroides</i>	53 (84.1)	1.5	1.9	0.6	0.0	8.5
	<i>Vibrio</i>	57 (90.5)	1.5	1.5	0.9	0.0	5.8
	<i>Ochrobactrum</i>	43 (85.3)	1.4	2.4	0.3	0.0	13.0
	<i>Serratia</i>	50 (79.4)	1.3	1.4	0.6	0.0	4.3
	<i>Enterococcus</i>	51 (81.0)	1.2	1.3	0.7	0.0	4.2
	<i>Psychrobacter</i>	55 (87.3)	1.2	1.2	0.9	0.0	4.3
	<i>Chryseobacterium</i>	55 (87.3)	1.1	1.2	0.5	0.0	5.5
	<i>Rhodanobacter</i>	50 (79.4)	1.0	1.1	0.5	0.0	3.4
	<i>Paludibacterium</i>	52 (82.5)	0.9	1.0	0.4	0.0	3.6
Vswab (n=30)	<i>Lactobacillus</i>	29 (96.7)	84.4	28.7	98.6	0.0	100.0
	<i>Gardnerella</i>	16 (53.3)	7.6	19.4	0.1	0.0	97.1
	<i>Sneathia</i>	4 (13.3)	1.9	7.3	0.0	0.0	30.5
	<i>Atopobium</i>	7 (23.3)	1.6	5.2	0.0	0.0	25.3
	<i>Ureaplasma</i>	14 (46.7)	1.0	2.1	0.0	0.0	6.3
	<i>Aerococcus</i>	6 (20.0)	0.5	1.8	0.0	0.0	8.9
	<i>Bifidobacterium</i>	2 (6.7)	0.4	2.1	0.0	0.0	11.6
	<i>Prevotella</i>	11 (36.7)	0.4	1.5	0.0	0.0	8.5
	<i>Gemella</i>	3 (10.0)	0.4	1.6	0.0	0.0	8.5
	<i>Clostridium_sensu_stricto_1</i>	4 (13.3)	0.4	1.3	0.0	0.0	6.4
	<i>Finegoldia</i>	16 (53.5)	0.3	0.8	0.1	0.0	4.1
	<i>Streptococcus</i>	6 (20.0)	0.3	1.2	0.0	0.0	6.5
	<i>Anaerococcus</i>	9 (30.0)	0.2	0.4	0.0	0.0	1.3
	<i>Veillonella</i>	3 (10.0)	0.1	0.7	0.0	0.0	3.9
	<i>Dialister</i>	7 (23.3)	0.1	0.3	0.0	0.0	1.5

Sample type	Genus	Number of samples (%) <sup>*</sup>	Relative abundance in %				
			Mean	SD	Median	Min	Max
Pswab (n=15)	<i>Lactobacillus</i>	15 (100.0)	69.1	34.5	85.7	0.8	98.2
	<i>Gardnerella</i>	7 (46.7)	13.4	27.7	0.0	0.0	96.8
	<i>Atopobium</i>	4 (26.7)	1.8	4.6	0.0	0.0	15.5
	<i>Ochrobactrum</i>	15 (100.0)	1.6	2.8	0.5	0.1	10.6
	<i>Finegoldia</i>	10 (67.7)	1.1	2.8	0.3	0.0	10.7
	<i>Prevotella</i>	13 (86.7)	1.0	2.1	0.3	0.0	8.2
	<i>Delftia</i>	14 (93.3)	0.8	1.0	0.5	0.0	3.2
	<i>Sneathia</i>	2 (13.3)	0.6	2.2	0.0	0.0	8.4
	<i>Psychrobacter</i>	12 (80.0)	0.5	1.0	0.1	0.0	3.9
	<i>Aerococcus</i>	3 (20.0)	0.5	1.3	0.0	0.0	5.1
	<i>Anaerobacillus</i>	9 (60.0)	0.5	0.8	0.1	0.0	2.5
	<i>Streptococcus</i>	5 (33.3)	0.4	1.4	0.0	0.0	5.6
	<i>Flavobacterium</i>	8 (53.3)	0.4	0.9	0.1	0.0	3.2
	uncultured	9 (60.0)	0.3	0.5	0.1	0.0	1.5
	<i>Enterococcus</i>	5 (33.3)	0.3	1.0	0.0	0.0	4.0
Fecal samples (n=59)	<i>Bacteroides</i>	59 (100.0)	21.7	12.4	22.4	2.3	54.0
	<i>Faecalibacterium</i>	58 (98.3)	15.4	7.7	13.7	0.0	35.2
	<i>Blautia</i>	59 (100.0)	4.7	3.8	3.5	0.8	20.3
	<i>Subdoligranulum</i>	58 (98.3)	4.3	2.8	3.7	0.0	13.1
	<i>Prevotella</i>	24 (40.7)	3.5	6.4	0.0	0.0	25.6
	<i>Anaerostipes</i>	58 (98.3)	3.3	2.4	2.9	0.0	9.0
	<i>Coprococcus</i>	54 (91.5)	3.1	2.6	2.2	0.0	13.5
	<i>Agathobacter</i>	55 (93.2)	3.0	3.2	2.3	0.0	14.7
	<i>Alistipes</i>	57 (96.6)	2.9	3.0	2.3	0.0	18.5
	<i>Ruminococcus</i>	55 (93.2)	2.6	2.0	2.3	0.0	7.3
	<i>Clostridia_UCG-014</i>	40 (67.8)	2.2	2.9	1.1	0.0	11.9
	<i>Parabacteroides</i>	55 (93.2)	2.0	2.2	1.0	0.0	11.1
	<i>Eubacterium hallii group</i>	59 (100.0)	1.6	1.4	1.2	0.1	6.8
	<i>Lachnospiraceae_NK4A136 group</i>	55 (93.2)	1.6	2.1	0.7	0.0	8.4
	<i>Dorea</i>	58 (98.3)	1.6	1.1	1.5	0.0	4.8

CU: catheter urine; vswab: vaginal swab; pswab: periurethral swab; SD: standard deviation

\* Percentages refer to total number of analyzed samples per sample type