

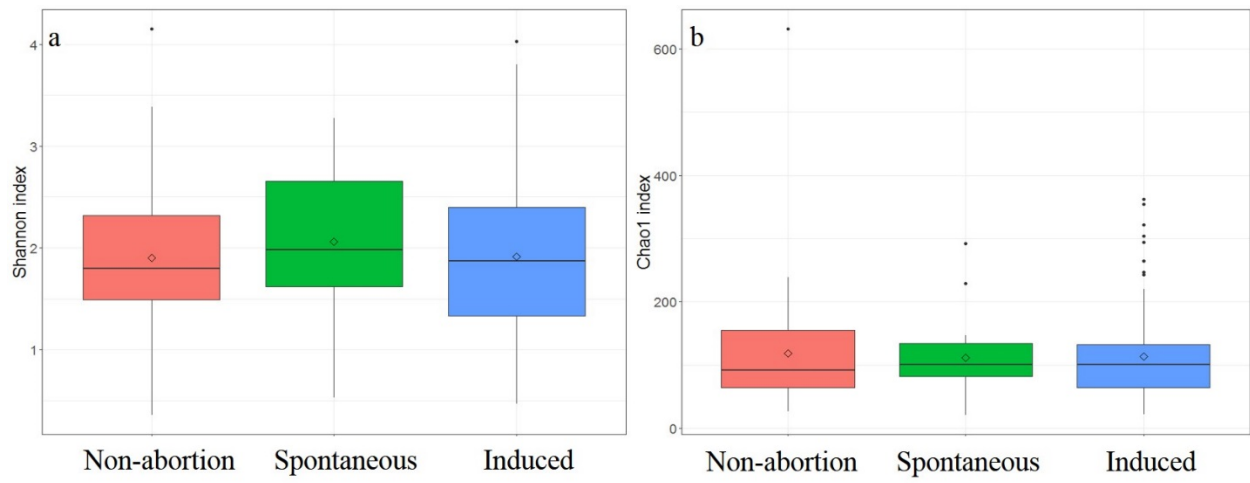
Supplementary table 1: Distribution of the species averaged across the non-abortion, spontaneous abortion and induced abortion groups

Bacteria	Non abortion (%)	Spontaneous Abortion (%)	Induced abortion (%)
<i>Lactobacillus iners</i>	26.210	20.323	28.012
<i>Lactobacillus crispatus</i>	25.291	15.858	20.482
<i>Pseudomonas trivialis</i>	4.303	3.221	3.711
<i>Atopobium vaginae</i>	4.232	23.282*	6.867
<i>Streptococcus agalactiae</i>	4.073	1.873	0.161
<i>Prevotella bivia</i>	3.372	2.999	4.465
<i>Microbacterium ginsengisoli</i>	2.718	0.003	0.000
<i>Staphylococcus epidermidis</i>	2.544	0.000	0.077
<i>Aerococcus christensenii</i>	2.375	1.759	2.322
<i>Pseudomonas cedrina</i>	2.256	0.025	0.057
<i>Ureaplasma parvum</i>	2.062	0.405	2.193
<i>Streptococcus pseudopneumoniae</i>	1.870	0.000	0.114
<i>Streptococcus salivarius</i>	1.523	0.000	0.098
<i>Lactobacillus jensenii</i>	1.481	0.440	0.502
<i>Lactobacillus gasseri</i>	1.476	0.002	0.821
<i>Microbacterium hydrocarbonoxydan</i>	1.194	0.013	0.012
<i>Lactobacillus fornicalis</i>	1.067	0.553	4.251
<i>Streptococcus anginosus</i>	1.044	0.001	0.286
<i>Megasphaera spp.</i>	1.029	4.608*	1.556
<i>Mycoplasma hominis</i>	0.533	0.617	1.215
<i>Prevotella timonensis</i>	0.352	1.581	0.911
AY958888	0.278	1.464*	1.103
<i>Lactobacillus psittaci</i>	0.183	0.031	0.188
<i>Dialister micraerophilus</i>	0.181	0.206	0.091
<i>Gardnerella vaginalis</i>	0.130	3.579*	1.811
AY959109	0.117	0.337*	0.298
<i>Lactobacillus vaginalis</i>	0.094	0.202	0.100
<i>Ureaplasma urealyticum</i>	0.078	0.000*	0.584
AY959023	0.066	2.102	0.993
<i>Leptotrichia amnionii</i>	0.063	1.928*	1.436*
<i>Peptoniphilus indolicus</i>	0.037	1.350	0.053
<i>Escherichia coli</i>	0.035	0.003	0.642
AY958940	0.027	0.120*	0.092
<i>Prevotella amnii</i>	0.026	1.049	1.729
DQ666092	0.016	0.472	0.033
<i>Sneathia sanguinegens</i>	0.003	0.549*	1.932
P003395	0.002	3.005	0.616
<i>Escherichia fergusonii</i>	0.002	0	0.367

<i>AY959069</i>	0.002	0.662	1.483
<i>AY995258</i>	0.001	1.187	0.023
<i>Enterococcus faecalis</i>	0.001	0.001	1.155
<i>Peptostreptococcus anaerobius</i>	0.000	1.979	0.040
<i>Lactobacillus acidophilus</i>	0.000	0.000	0.251
<i>Lactobacillus johnsonii</i>	0.000	0	1.926
<i>Prevotella denticola</i>	0.000	0	0.463

Only >0.1% of the major species among the study subjects are presented.

* **P < 0.05** Wilcoxon rank sum test compared with women with non-abortion



Supplementary figure 1. Shannon index (a) and Chao 1 (b) index were used to measure alpha diversity.