

Supplementary tables

Supplementary table 1. Demographic, behavioral and clinical characteristics of the 140 study participants.

Characteristics	N or median	% or range
Age (years); median (range)	33	18 - 51
Ethnicity		
White	80	57.1
Non-white	60	42.9
Body mass index^a ; median (range)	25.9	17.6 - 53.0
Marital status		
Single	51	36.4
In a steady relationship (living with partner)	89	63.6
Years at school^b ; median (range)	9	0-16
Has any personal income^c		
No	57	40.7
Yes	83	59.3
Smoker		
No	110	78.6
Yes	30	21.4
Number of sex partner (prior 12 months)		
0 or 1	126	90.0
2 or more	14	10.0
New sex partner (prior 4 months)		
No	117	83.6
Yes	23	16.4
Abnormal vaginal discharge treated in the past		
No	77	55.0
Yes	63	45.0
History of sexually transmitted infections		
No	127	90.7
Yes	13	9.3
Frequency of condom use		
Never	99	70.7
Inconsistent	19	13.6
Consistent	22	15.7
Hormonal contraceptive use		
No	80	57.1
Oral	46	32.9
Injectable	14	10.0
Cervical infection detected at enrollment		
None	130	92.9
Positive for <i>Chlamydia trachomatis</i>	8	5.7
Positive for <i>Neisseria gonorrhoeae</i>	2	1.4

Characteristics	N or median	% or range
Vaginal microbiota (Nugent scoring)		
0-3 Normal (scores 0 - 3)	75	53.6
4-6 Intermediate (scores 4 - 6)	17	12.1
7-10 Bacterial vaginosis (scores 7 - 10)	48	34.3

^a BMI: body mass index defined as weight (kg) divided by height squared (meters).

^b Number of school grades approved.

^c Has a personal income from a formal or informal job.

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Supplementary Table 2. Overall relative abundances (RAs) of taxa retrieved from molecular assessment of vaginal samples. Overall RAs were obtained by the sum of median (=10784) rarefied read counts of each taxon across samples. Sum of each taxon was then divided by total read counts of the study (2139017), those with overall RAs <0.001 were not included at LefSe (red).

Taxa	Overall RA (%)	Cumulative overall RA (%)
<i>Lactobacillusiners</i>	30.777919	
<i>Lactobacilluscrispatus</i>	23.707339	54.48526
<i>Gardnerellavaginalis</i>	8.441398	62.92666
BVAB1	5.107998	68.03465
<i>Atopobiumvaginae</i>	4.218023	72.25268
<i>Lactobacillusgasseri</i>	4.199165	76.45184
<i>Lactobacillusjensenii</i>	3.305398	79.75724
<i>Megasphaerasp.type1</i>	2.891484	82.64872
<i>Sneathiasanguinegens</i>	2.548393	85.19712
<i>Lactobacillushelveticus</i>	2.222530	87.41965
<i>Leptotrichiaamnionii</i>	1.862793	89.28244
BVAB2	1.261917	90.54436
<i>Prevotellagenogroup1</i>	1.086990	91.63135
<i>Prevotellagenogroup2</i>	0.944979	92.57633
<i>Parvimonasmicra</i>	0.634080	93.21041
<i>Dialistersp.type2</i>	0.604308	93.81471
<i>Dialistersp.type1</i>	0.604234	94.41895
<i>Mycoplasmahominis</i>	0.447787	94.86673
<i>Prevotellagenogroup3</i>	0.403197	95.26993
<i>Gemella</i>	0.374366	95.64430
<i>Raoultellaplanticola</i>	0.362705	96.00700
<i>Bifidobacteriumbreve</i>	0.322009	96.32901
<i>Porphyromonasbennonis</i>	0.252623	96.58163
<i>Streptococcusagalactiae</i>	0.251228	96.83286
<i>Fusobacteriumnucleatum</i>	0.245746	97.07861
<i>Mobiluncusmulieris</i>	0.222894	97.30150
BVAB3	0.205165	97.50667

Taxa	Overall RA (%)	Cumulative overall RA (%)
<i>Lactobacillusvaginalis</i>	0.197353	97.70402
<i>Sutterellastercoricanis</i>	0.182583	97.88660
<i>Prevotellamelaninogenica</i>	0.179294	98.06590
<i>Arcanobacteriumphocae</i>	0.177894	98.24379
<i>Eggerthella</i>	0.151240	98.39503
<i>Agrobacteriumtumefaciens</i>	0.129612	98.52464
<i>Finegoldiamagna</i>	0.112550	98.63719
<i>Clostridiumcolicanis</i>	0.108733	98.74593
<i>Howardellaureilytica</i>	0.106107	98.85203
<i>Megasphaerasp.type2</i>	0.104877	98.95691
<i>Prevotellabivia</i>	0.103267	99.06018
<i>Ureaplasmaparvum</i>	0.097113	99.15729
<i>Prevotellagenogroup4</i>	0.084164	99.24145
<i>Peptoniphilusharei</i>	0.069311	99.31077
<i>Anaerococcustetradius</i>	0.057485	99.36825
<i>Arcanobacteriumhippocoleae</i>	0.050693	99.41894
<i>Porphyromonasuenonis</i>	0.048448	99.46739
<i>Prevotellabuccalis</i>	0.043339	99.51073
<i>Peptostreptococcusanaerobius</i>	0.041611	99.55234
<i>Streptococcusoralis</i>	0.038228	99.59057
<i>Sutterellamoribirenis</i>	0.037930	99.62850
<i>Lactobacilluscoleohominis</i>	0.033233	99.66173
<i>Atopobiumminutum</i>	0.026683	99.68841
CandidateDivisionTM7vaginal	0.026461	99.71488
<i>Aerococcuschristensenii</i>	0.026210	99.74109
<i>Peptoniphilusindolicus</i>	0.025000	99.76609
<i>Dialisterpropionificiens</i>	0.024188	99.79027
<i>Bacteroidesuniformis</i>	0.023524	99.81380
<i>Peptoniphiluslacrimalis</i>	0.020093	99.83389
<i>Porphyromonasendodontalis</i>	0.019982	99.85387
<i>Prevotelladisiens</i>	0.016955	99.87083
<i>Porphyromonassp.type1</i>	0.014596	99.88542
<i>Prevotellagenogroup5</i>	0.010780	99.89620
<i>Peptostreptococcusstomatis</i>	0.008597	99.90480
<i>Peptoniphilusasaccharolyticus</i>	0.008165	99.91297
<i>Anaerococcusvaginalis</i>	0.007989	99.92095
<i>Pseudomonasfluorescens</i>	0.007121	99.92808
<i>Prevotellagenogroup7</i>	0.007070	99.93515
<i>Streptococcusanginosus</i>	0.006958	99.94210
<i>Bifidobacteriumlongum</i>	0.006152	99.94826
<i>Enterococcusfaecalis</i>	0.005244	99.95350
<i>Veillonellaatypica</i>	0.005010	99.95851

Taxa	Overall RA (%)	Cumulative overall RA (%)
<i>Roseburiafaecis</i>	0.004785	99.96329
<i>Prevotellagenogroup6</i>	0.003301	99.96660
<i>Lactobacillusmucosae</i>	0.003279	99.96987
<i>Mobiluncuscurtisii</i>	0.003067	99.97294
<i>Streptococcussalivarius</i>	0.003058	99.97600
<i>Varibaculumcambriense</i>	0.002839	99.97884
<i>Staphylococcus</i> hominis	0.002443	99.98128
<i>Mycoplasma</i> magenitalium	0.002217	99.98350
<i>Corynebacterium</i> accolens	0.001770	99.98527
<i>Staphylococcus</i> epidermidis	0.001516	99.98678
<i>Veillonella</i> parvula	0.001431	99.98822
<i>Alloscardovia</i> omnicolens	0.001133	99.98935
<i>Campylobacter</i> ureolyticus	0.001077	99.99043
<i>Actinomyces</i> meyeri	0.000984	
<i>Staphylococcus</i> lugdunensis	0.000937	
<i>Actinomyces</i> urogenitalis	0.000802	
<i>Veillonella</i> montpellierensis	0.000778	
<i>Aerococcus</i> viridans	0.000756	
<i>Eubacterium</i> saphenum	0.000687	
<i>Streptococcus</i> equinus	0.000662	
<i>Shuttleworthia</i> satelles	0.000587	
<i>Bifidobacterium</i> bifidum	0.000488	
<i>Catonella</i> morbi	0.000479	
<i>Atopobium</i> rimae	0.000416	
<i>Streptococcus</i> anguinis	0.000365	
<i>Staphylococcus</i> haemolyticus	0.000344	
<i>Weissella</i> paramesenteroides	0.000335	
<i>Acinetobacter</i> baumannii	0.000219	
<i>Escherichia</i> coli	0.000175	
<i>Eubacterium</i> rectale	0.000098	
<i>Arcanobacterium</i> haemolyticum	0.000095	
<i>Sutterella</i> wadsworthensis	0.000093	
<i>Pseudomonas</i> aeruginosa	0.000084	
<i>Lactobacillus</i> rhamnosus	0.000081	
<i>Staphylococcus</i> warneri	0.000028	
<i>Actinomyces</i> neuii	0.000028	
<i>Pediococcus</i> acidilactici	0.000028	
<i>Enterococcus</i> faecium	0.000015	
<i>Lactobacillus</i> casei	0.000011	
<i>Dialister</i> sp.type3	<0.000001	
<i>Streptococcus</i> parasanguinis	<0.000001	
<i>Eubacterium</i> meligens	<0.000001	

Taxa	Overall RA (%)	Cumulative overall RA (%)
<i>Lactobacillus salivarius</i>	<0.000001	
<i>Staphylococcus aureus</i>	<0.000001	
<i>Acinetobacter calcoaceticus</i>	<0.000001	
<i>Pseudomonas stutzeri</i>	<0.000001	
<i>Eubacterium siraeum</i>	<0.000001	

Supplementary Figure 1. Venn's diagram showing the distribution of the 140 study participants according to the diagnosis of microscopic- and molecular-bacterial vaginosis (BV).

