

Supplementary Table S1. Enrollment characteristics for microbiota and preterm birth (MPTB) study participants by eligibility for *M. genitalium* (MG) and fecundability analysis.

Characteristic	Group 1 not eligible due to lack of follow-up time only			Group 2 not eligible due to reproductive co-morbidities and/or >6 cycle prior conception attempt time			Group 3 not eligible due to lack of MG data			Group 4 eligible			Group 1 versus 4	Group 3 versus 4	Group 1 versus 2 versus 3 versus 4
	(N = 92)			(N = 98)			(N = 104)			(N = 407)			P-value	P-value	P-value
	N	n	%	N	n	%	N	n	%	N	n	%			
Cohort ^a	92			98			104			407			0.03	<0.001	<0.001
Nairobi		54	58.7		14	14.3		100	96.2		286	70.3			
Mombasa		38	41.3		84	85.7		4	3.8		121	29.7			
Age (years)	92			98			104			407			0.06	0.16	0.07
<25		30	32.6		23	23.5		13	12.5		84	20.6			
25–29		26	28.3		26	26.5		37	35.6		136	33.4			
30–34		22	23.9		23	23.5		25	24.0		105	25.8			
35–39		9	9.8		20	20.4		22	21.2		69	17.0			
40–45		5	5.4		6	6.1		7	6.7		13	3.2			
Education level	92			98			104			407			0.39	0.002	0.002
<8 years		10	10.9		14	14.3		3	2.9		31	7.6			
8–11 years		24	26.1		36	36.7		21	20.2		141	34.6			
12–15 years		42	45.7		37	37.8		53	51.0		173	42.5			
≥16 years		16	17.4		11	11.2		27	26.0		62	15.2			
Monthly household income (KSh)	91			97			104			404			0.07	<0.001	<0.001
<2500		1	1.1		2	2.1		0	0.0		17	4.2			
2500–10 000		33	36.3		36	37.1		18	17.3		138	34.2			
10 000–30 000		37	40.7		41	42.3		42	40.4		180	44.6			
30 000–75 000		18	19.8		15	15.5		28	26.9		45	11.1			
>75 000		2	2.2		3	3.1		16	15.4		24	5.9			
Partner's HIV-serostatus	92			98			103			406			0.75	0.45	0.22
HIV-seronegative		75	81.5		85	86.7		75	72.8		317	78.1			
HIV-seropositive		3	3.3		5	5.1		7	6.8		18	4.4			
Unknown		14	15.2		8	8.2		21	20.4		71	17.5			
Reproductive history															
Most recent contraceptive method	92			98			104			407			0.27	0.15	<0.001
None		34	37.0		90	91.8		29	27.9		118	29.0			
Condoms		6	6.5		6	6.1		11	10.6		19	4.7			
OCP		2	2.2		0	0.0		3	2.9		7	1.7			
Injectable		5	5.4		0	0.0		2	1.9		16	3.9			
Copper IUD		11	12.0		1	1.0		30	28.8		97	23.8			
Implant		33	35.9		0	0.0		28	26.9		147	36.1			
Other		1	1.1		1	1.0		1	1.0		3	0.7			
Ever pregnant	92	74	80.4	98	77	78.6	104	98	94.2	407	378	92.9	<0.001	0.63	<0.001
History of miscarriage	74	15	19.7	77	33	42.9	98	33	33.7	378	76	20.1	0.97	0.004	<0.001
Parous	92	68	73.9	98	65	66.3	104	87	83.7	407	366	89.9	<0.001	0.07	<0.001
Number of cycles of prior conception attempt time	92			82 ^b			104			407			0.07	0.11	<0.001
0		55	59.8		4	4.9		78	75.0		289	71.0			
1–3		25	27.2		0	0.0		21	20.2		70	17.2			
4–6		12	13.0		1	1.2		5	4.8		48	11.8			
≥7		0	0.0		77	93.9		0	0.0		0	0.0			

(continued)

Supplementary Table S1. Continued

Characteristic	Group 1 not eligible due to lack of follow-up time only			Group 2 not eligible due to reproductive co-morbidities and/or >6 cycle prior conception attempt time			Group 3 not eligible due to lack of MG data			Group 4 eligible			Group 1 versus 4	Group 3 versus 4	Group 1 versus 2 versus 3 versus 4
	(N = 92)			(N = 98)			(N = 104)			(N = 407)			P-value	P-value	P-value
	N	n	%	N	n	%	N	n	%	N	n	%			
History of ectopic pregnancy	92	0	0.0	98	4	4.1	104	0	0.0	407	0	0.0	–	–	<0.001
History of PID	92	0	0.0	98	5	5.1	104	0	0.0	407	1	0.2	0.63	0.61	<0.001
Endometriosis	92	0	0.0	98	2	2.0	104	0	0.0	407	0	0.0	–	–	<0.01
PCOS	92	0	0.0	98	0	0.0	104	0	0	407	0	0	–	–	–
Sexual behavior and vaginal washing in last 4 weeks															
Any vaginal washing	92	33	35.9	98	43	43.9	104	38	36.5	407	149	36.6	0.89	0.99	0.58
Frequency of condomless sex	92			91			103	17	16.5	407			0.68	0.002	0.001
No condomless sex		4	4.3		10	11.0					29	7.1			
1–4		27	29.3		19	20.9		36	35.0		132	32.4			
5–8		24	26.1		18	19.8		29	28.2		97	23.8			
≥9		37	40.2		44	48.4		21	20.4		149	36.6			
Median (Q1–Q3)	92	2	(0–3)	91	2	(1–3)		1	(1–2)		6.0	(3–12)	0.30	<0.001	<0.001
STI and BV															
History of STI ^c	92	0	0.0	98	0	0.0	104	2	1.9	407	4	1.0	0.34	0.43	0.37
<i>N. gonorrhoeae</i>	86	0	0.0	98	1	1.0	104			403	4	1.0	0.35	0.31	0.59
<i>C. trachomatis</i>	86	5	5.8	98	6	6.1	104			403	35	8.7	0.38	0.19	0.47
<i>T. vaginalis</i>	85	1	1.2	96	0	0.0	104			403	5	1.2	0.96	0.25	0.48
<i>M. genitalium</i>	81	10	12.3	89	2	2.2	0	–	–	389 ^d	30	7.7	0.17	–	0.04
BV nugent (≥7)	92	34	37.0	98	28	28.6	104	33	31.7	407	148	36.4	0.92	0.38	0.43
Abnormal vaginal discharge (self-report)	92	4	4.3	98	12	12.2	104	15	14.4	407	37	9.1	0.13	0.11	0.09
Vaginal itching	92	7	7.6	98	12	12.2	104	11	10.6	407	37	9.1	0.65	0.64	0.69

^a Enrollment at the study site in Nairobi began one year prior to the Mombasa site.

^b Remaining N = 16 reported unknown conception attempt time.

^c Self-reported history of syphilis, chlamydia, gonorrhea, and/or trichomoniasis.

^d N = 18 participants eligible for the MG and fecundability analysis are missing an enrollment MG sample since MG sampling started 1 year into the study. They were eligible for the MG analysis based on samples collected during their preconception trying time.

KSh, Kenyan shillings; OCP, oral contraceptive pill; IUD, intrauterine device; PID, pelvic inflammatory disease; PCOS, polycystic ovary syndrome; Q1–Q3, Quartile 1–Quartile 3; STI, sexually transmitted infection; BV, bacterial vaginosis.