

## Appendix

Table 8. Descriptive analysis and logistic regression of risk factors associated with FRTIs

IARFs	Descriptive analysis			Logistic regression analysis			
	Chi-square			Univariate		Multivariate	
	Negative	Positive	p-value	OR (95% CI)	p-Value	a OR (95% CI)	p-Value
Characteristics	n (%)	n (%)					
Age brackets			0.26				
[18 - 25]	13 (37.1)	34 (28.3)		1		1	
[26 - 29]	6 (17.1)	25 (20.8)		1.59 (0.53-4.77)	0.41	1.42 (0.39-5.21)	0.59
[30 - 35]	6 (17.1)	38 (31.7)		2.42 (0.83-7.08)	0.11*	2.45 (0.61-9.82)	0.21
[36 - 45]	10 (28.7)	23 (19.2)		0.87 (0.33-2.34)	0.79	0.65 (0.18-2.34)	0.51
Marital situation			0.26				
Married/in relationship	20 (57.1)	81 (67.5)		1			
Not married/not in relationship	15 (42.9)	39 (32.5)		0.64 (0.29-1.38)	0.26		
Length of relationship			0.54				
≤ 10	24 (68.6)	82 (68.3)		1			
Don't know	8 (22.9)	20 (16.7)		0.73 (0.29-1.87)	0.51		
> 10	3 (8.5)	18 (15)		1.76 (0.48-6.47)	0.39		
Level of education			0.69				
No education	5 (14.3)	21 (17.5)		1			
Full Primary school	12 (34.3)	29 (24.2)		0.58 (0.18-1.88)	0.36		
Full Secondary school	10 (28.6)	38 (31.7)		0.91 (0.27-2.99)	0.87		
Post-Secondary education	8 (22.8)	32 (26.6)		0.95 (0.27-3.31)	0.94		
Monthly income (US \$)			0.96				
≤ 30	11 (31.4)	31 (25.8)		1			
32-70	8 (22.9)	33 (27.5)		1.46 (0.52-4.12)	0.47		
72-140	5 (14.3)	20 (16.7)		1.41 (0.43-4.70)	0.57		
Don't earn money	10 (28.6)	31 (25.8)		1.10 (0.41-2.96)	0.85		
>140	1 (2.8)	5 (4.2)		1.77 (0.19-16.90)	0.62		
Average_length_menstruation			0.32				
<4 days	13 (37.1)	37 (30.8)		1			
[4 - 7] days	22 (62.9)	72 (60)		1.15 (0.52-2.54)	0.73		
Irregular	0 (0)	10 (8.4)		NA			
>7 days	0 (0)	1 (0.8)		NA			
Vaginal_hygiene_methods			0.61				
Water	19 (54.3)	55 (45.8)		1			
Water and soap	15 (42.9)	62 (51.7)		1.43 (0.66-3.08)	0.36		
Never	1 (2.8)	3 (2.5)		1.04 (0.10-10.57)	0.98		
Objects_used_intimate_cleansing			0.65				
No	7 (20)	20 (16.7)		1			
Yes	28 (80)	100 (83.3)		1.25 (0.48-3.26)	0.65		
Products_introduced_vaginally			0.08				
No	17 (48.6)	39 (32.5)		1		1	
Yes	18 (51.4)	81 (67.5)		1.96 (0.91-4.22)	0.08**	1.66 (0.68-4.09)	0.27
Intercourse_during_menstruation			0.13				
No	33 (94.3)	119 (99.2)		1		1	

Yes	2 (5.7)	1 (0.8)		0.14 (0.01-1.58)	0.11*	0.08 (0.004-1.54)	0.09
Number of pregnancies			0.62				
≤4	20 (57.1)	76 (63.3)		1			
Never	14 (40)	38 (31.7)		0.71 (0.33-1.57)	0.40		
>4	1 (2.9)	6 (5)		1.58 (0.18-13.88)	0.68		
Outcome_of_the_last_pregnancy			0.16				
Pregnant	5 (14.3)	10 (8.3)		1		1	
Miscarriage	3 (8.6)	29 (24.2)		4.83 (0.97-23.98)	0.05**	5.11 (0.78-33.42)	0.09
Never	14 (40)	29 (24.2)		1.32 (0.38-4.55)	0.66	1.51 (0.34-6.77)	0.59
Live birth	13 (37.1)	44 (36.7)		1.69 (0.49-5.84)	0.41	0.89 (0.19-4.09)	0.88
Contraception			0.24				
No	15 (42.9)	65 (54.2)		1			
Yes	20 (57.1)	55 (45.8)		0.64 (0.29-1.36)	0.24		
Tobacco			0.54				
No	34 (97.1)	118 (98.3)		1			
Yes	1 (2.9)	2 (1.7)		0.58 (0.05-6.55)	0.65		
Alcohol			0.54				
No	34 (97.1)	118 (98.3)		1			
Yes	1 (2.9)	2 (1.7)		0.57 (0.05-6.55)	0.66		
Sexual_relationships_last_6_months			0.24				
No	4 (11.4)	6 (5)		1		1	
Yes	31 (88.6)	114 (95)		0.18 (0.65-9.23)	0.19*	2.06 (0.26-16.49)	0.49
Use_of_condoms			0.14				
No	26 (74.3)	102 (85)		1		1	
Yes	9 (25.7)	18 (15)		0.51 (0.21-1.27)	0.15*	0.61 (0.19-1.98)	0.41
Number of ifetime sexual partners			0.03*				
≤ 1	10 (28.6)	16 (13.3)		1		1	
>1	25 (71.4)	104 (86.7)		2.60 (1.05-6.41)	0.04**	3.34 (1.15-9.69)	0.03*
Protection_last_intercourse			0.15				
No	28 (80)	109 (90.8)		1		1	
Yes	6 (17.1)	10 (8.4)		0.43 (0.14-1.28)	0.13*	0.55 (0.13-2.46)	0.44
No answer	1 (2.9)	1 (0.8)		0.25 (0.02-4.24)	0.34	0.43 (0.01-14.78)	0.64
Partener_HIV_positivity			0.34				
Don't know	23 (65.7)	68 (56.7)		1			
No	12 (34.3)	52 (43.3)		1.47 (0.67-3.22)	0.34		
Multiple_partners			0.83				
No	28 (80)	95 (79.2)		1			
Yes	6 (17.1)	23 (19.2)		1.13 (0.42-3.05)	0.81		
No answer	1 (2.9)	2 (1.6)		0.59 (0.05-6.74)	0.67		
Consensual sexual intercourse			0.22				
No	2 (5.7)	2 (1.7)		1			
Yes	33 (94.3)	118 (98.3)		3.58 (0.49-26.36)	0.21		
Partner_who_has_other_partners			0.60				
Don't know	6 (17.1)	32 (26.7)		1		1	
No	14 (40)	48 (40)		0.64 (0.22-1.85)	0.41	0.79 (0.25-2.59)	0.70
Yes	7 (20)	21 (17.5)		0.56 (0.17-1.91)	0.36	0.52 (0.14-2.02)	0.35
No answer	8 (22.9)	19 (15.8)		0.45 (0.13-1.48)	1.19*	0.58 (0.12-2.75)	0.49

Use of tampons			0.56				
No	7 (20)	2 (1.7)		1			
Yes	28 (80)	101 (84.2)		1.33 (0.51-3.48)	0.56		

**Table 9. Descriptive analysis and logistic regression of risk factors associated with bacterial vaginosis**

Bacterial vaginosis	Descriptive analysis			Logistic regression analysis			
	Chi-square		p-value	Univariate		aMultivariate	
	Negative	Positive		OR (95% CI)	p-Value	a OR (95% CI)	p-Value
Characteristics	n (%)	n (%)					
Age brackets			0.77				
[18 - 25]	24 (30.4)	23(30.3)		1			
[26 - 29]	16 (20.3)	15(19.7)		0.98 (0.39-2.42)	0.96		
[30 - 35]	20 (25.3)	24 (31.6)		1.25 (0.55-2.86)	0.59		
[36 - 45]	19 (24)	14 (1.4)		0.77 (0.31-1.88)	0.57		
Marital situation			0.61				
Married/in relationship	53 (67.1)	48 (63.2)		1			
Not married/not in relationship	26 (32.9)	28 (36.8)		1.19 (0.61-2.30)	0.61		
Lengh of relationship			0.57				
≤ 10	57 (72.2)	49 (64.5)		1			
Don't know	13 (16.5)	15 (19.7)		1.34 (0.58-3.09)	0.49		
> 10	9 (11.3)	12 (15.8)		1.55 (0.60-3.99)	0.36		
Level of education			0.12				
No education	16 (20.3)	10 (13.2)		1			
Full Primary school	22 (27.8)	19 (25)		1.38 (0.51-3.76)	0.53		
Full Secondary school	27 (34.2)	21 (27.6)		1.24 (0.47-3.29)	0.66		
Post-Secondary education	14 (17.7)	26 (34.2)		2.97 (1.07-8.26)	0.04**		
Monthly income (US \$)			0.32				
≤ 30	23 (29.1)	19 (25)		1			
32-70	24 (30.4)	17 (22.4)		0.86 (0.36-2.05)	0.73		

72-140	13 (16.5)	12 (15.7)		1.12 (0.42-3.01)	0.83		
Don't earn money	18 (22.8)	23 (30.3)		1.55 (0.65-3.68)	0.32		
>140	1(1.2)	5 (6.6)		6.05 (0.65-56.37)	0.11*		
Average_length_menstruation							
<4 days	28 (35.4)	22(28.9)	0.59	1			
[4 - 7] days	47 (59.5)	47(61.9)		1.27 (0.64-2.54)	0.49		
Irregular	4 (5.1)	6(7.9)		1.91 (0.48-7.61)	0.36		
>7 days	0(0.0)	1(1.3)		NA			
Vaginal_hygiene_methods							
Water	39 (49.4)	35 (46.1)	0.62	1			
Water and soap	39 (49.4)	38 (50)		1.09 (0.57-2.06)	0.80		
Never	1 (1.2)	3 (3.9)		3.34 (0.33-33.63)	0.31		
Objects_used_intimate_cleansing							
No	16 (20.3)	11 (14.5)	0.34	1			
Yes	63 (79.7)	65 (85.5)		1.50 (0.65-3.48)	0.35		
Products_introduced_vaginally							
No	33 (41.8)	23 (30.3)	0.14	1		1	
Yes	46 (58.2)	53 (69.7)		1.65 (0.85-3.21)	0.14*	1.44 (0.72-2.84)	0.30
Intercourse_during_menstruation							
No	77 (97.5)	75 (98.7)	1.00	1			
Yes	2 (2.5)	1 (1.3)		0.51 (0.05-5.78)	0.59		
Number_of_pregnancies							
≤4	50 (63.3)	46 (60.5)	0.85	1			
Never	25 (31.6)	27 (35.6)		1.17 (0.59-2.31)	0.64		
>4	4 (5.1)	3 (3.9)		0.82 (0.17-3.84)	0.79		
Outcome_of_the_last_pregnancy							
Pregnant	10 (12.7)	5 (6.6)	0.21	1		1	
Miscarriage	12 (12.2)	20 (26.3)		3.33 (0.92-12.11)	0.07**	3.23 (0.85-12.23)	0.09
Never	25(31.6)	26 (34.2)		2.08 (0.62-6.95)	0.23	1.84 (0.53-6.39)	0.34
Live birth	32 (40.5)	25 (32.9)		1.56 (0.47-5.16)	0.46	1.39 (0.40-4.82)	0.60
Contraception							
No	45 (57)	35 (46.1)	0.17	1			
Yes	34 (43)	41 (53.9)		1.55 (0.82-2.92)	0.18*		
Tobacco							
No	78 (98.7)	74 (97.4)	0.62	1			
Yes	1 (1.3)	2 (2.6)		2.11 (0.19-23.74)	0.55		
Alcohol							
No	77 (97.5)	75 (98.7)	1.00	1			
Yes	2 (2.5)	1 (1.3)		0.51 (0.05-5.78)	0.59		
Sexual_relationships_last_6_months							
No	6 (7.6)	4 (5.3)	0.75	1			
Yes	73 (92.4)	72 (94.7)		1.48 (0.40-5.46)	0.56		
Use_of_condoms							
No	65 (82.3)	63 (82.9)	0.92	1			
Yes	14 (17.7)	13 (17.1)		0.96 (0.42-2.19)	0.92		
Number_of_ifetime_sexual_partners							
≤1	17 (21.5)	9 (11.8)	0.11	1			

>1	62 (78.5)	67 (88.2)		2.04 (0.85-4.92)	0.11*		
Protection_last_intercourse			0.49				
No	68 (86.1)	69 (90.8)		1			
Yes	9 (11.4)	7 (9.2)		0.77 (0.27-2.18)	0.62		
No answer	2 (2.5)	0(0.0)		0.00-	0.99		
Partener_HIV_positivity			0.59				
Don't know	48 (60.8)	43 (56.6)		1			
No	31 (39.2)	33 (43.4)		1.19 (0.63-2.25)	0.59		
Yes							
Multiple_partners			0.48				
No	65 (82.3)	58 (76.3)		1			
Yes	12 (15.2)	17 (22.4)		1.58 (0.70-3.60)	0.27		
No answer	2 (2.5)	1 (1.3)		0.56 (0.05-6.34)	0.64		
Consensual sexual intercourse			0.62				
No	3 (3.8)	1 (1.3)		1			
Yes	76 (96.2)	75 (98.7)		2.96 (0.30-29.11)	0.35		
Partner_who_has_other_partners			0.54				
Don't know	17 (21.5)	21 (27.6)		1			
No	36 (45.5)	26 (34.2)		0.59 (0.26-1.32)	0.20		
Yes	13 (16.5)	15 (19.7)		0.93 (0.35-2.49)	0.89		
No answer	13 (16.5)	14 (18.5)		0.87 (0.32-2.35)	0.79		
Use of tampons			1.00				
No	4 (15.4)	22 (17.1)		1		1	
Yes	22 (84.6)	54 (82.9)		3.12 (1.23-7.94)	0.02**	2.87 (1.11-7.39)	0.03*

a = Multivariate analysis were performed using backward stepwise method

Table 10. Descriptive analysis and logistic regression of risk factors associated with candidiasis

Candidiasis	Descriptive analysis			Logistic regression analysis			
	Chi-square		p-value	Univariate		Multivariate	
	Negative	Positive		OR (95% CI)	p-Value	a OR (95% CI)	p-Value
Characteristics	n (%)	n (%)					
Age brackets			0.32				
[18 - 25]	25(27.2)	22(34.9)		1		1	
[26 - 29]	17(18.5)	14(22.2)		0.93 (0.37-2.32)	0.88	0.92 (0.34-2.43)	0.87
[30 - 35]	26(28.2)	18(28.6)		0.78 (0.34-1.80)	0.57	0.60 (0.24-1.51)	0.28

[36 - 45]	24(26.1)	9(14.3)		0.42 (0.16-1.10)	0.08**	0.27 (0.09-0.82)	0.021*
Marital situation			0.74				
Married/in relationship	59(64.1)	42(66.7)		1			
Not married/not in relationship	33(35.9)	21(33.3)		0.89(4.55-1.75)	0.74		
Length of relationship			0.44				
≤10	60(65.2)	46(73.0)		1			
Don't know	15(16.3)	6(9.5)		0.84 (0.36-1.97)	0.69		
> 10	17(18.8)	11(17.5)		0.52 (0.18-1.44)	0.21		
Level of education			0.27				
No education	14(15.3)	12(19.0)		1			
Full Primary school	27(29.3)	14(22.2)		0.60 (0.22-1.97)	0.26		
Full Secondary school	24(26.1)	24(38.2)		1.16 (0.44-3.03)	0.75		
Post-Secondary education	27(29.3)	13(20.6)		0.56 (0.20-1.55)	0.26		
Monthly income (US \$)			0.64				
≤30	26(28.3)	16(25.4)		1			
32-70	21(22.8)	20(31.7)		1.54 (0.64-3.70)	0.32		
72-140	15(16.3)	10(15.9)		1.08 (0.39-2.98)	0.87		
Don't earn money	25(27.2)	16(25.4)		1.04 (0.43-2.51)	0.93		
>140	5(5.4)	1(1.6)		0.32 (0.03-3.09)	0.32		
Average_length_menstruation			0.83				
<4 days	28(30.4)	22(34.9)		1			
[4 - 7] days	56(60.9)	38(60.3)		0.86 (0.43-1.72)	0.67		
Irregular	7(7.6)	3(4.8)		0.54 (0.12-2.35)	0.41		
>7 days	1(1.1)	0(0)		0.00-			
Vaginal_hygiene_methods			0.62				
Water	46(50.0)	28(44.4)		1			
Water and soap	43(46.7)	34(54.0)		1.29 (0.67-2.48)	0.43		
Never	3(3.3)	1(1.6)		0.54(0.05-5.52)	0.61		
Objects_used_intimate_cleansing			0.99				
No	16(17.4)	11(17.5)		1			
Yes	76(82.6)	52(82.5)		0.99(0.42-2.31)	0.99		
Products_introduced_vaginally			0.79				
No	34(37.0)	22(34.9)		1			
Yes	58(63.0)	41(65.1)		1.09 (0.56-2.13)	0.79		
Intercourse_during_menstruation			1.00				
No	90(97.8)	62(98.4)		1			
Yes	2(2.2)	1(1.6)		0.72 (0.6-8.18)	0.79		
Number of pregnancies			0.68				
≤4	58(63.0)	38(60.3)		1			
Never	31(33.7)	21(33.3)		1.03 (0.51-2.05)	0.92		
>4	3(3.3)	4(6.3)		2.03 (0.43-9.60)	0.36		
Outcome_of_the_last_pregnancy			0.67				
Pregnant	7(7.6)	8(12.7)		1			
Miscarriage	48(19.6)	14(22.3)		0.68 (0.19-2.33)	0.54		
Never	31(33.7)	20(31.7)		0.56 (0.17-1.80)	0.33		
Live birth	36(39.1)	21(33.3)		0.51 (1.62-1.60)	0.51		
Contraception			0.14				

No	43(46.7)	37(58.7)		1		1	
Yes	49(53.3)	26(41.3)		0.61 (0.32-1.17)	0.14*	0.52 (0.25-1.07)	0.07
Tobacco							
No	90(97.8)	62 (98.4)	1.00	1			
Yes	2(2.2)	1 (1.6)		0.72 (0.06-8.18)	0.79		
Alcohol							
No	90(97.8)	62 (98.4)	1.00	1			
Yes	2(2.2)	1 (1.6)		0.72 (0.06-8.18)	0.79		
Sexual relationships last 6 months							
No	6(6.5)	4 (6.3)	1.00	1			
Yes	86(93.5)	59 (93.7)		1.02 (0.27-3.80)	0.96		
Use of condoms							
No	73(79.3)	55(87.3)	0.28	1			
Yes	19(20.7)	8(12.7)		0.55 (0.22-1.37)	0.20		
Number of lifetime sexual partners							
≤ 1	17(18.5)	9(14.3)	0.49	1			
>1	75(81.5)	54(85.7)		1.36 (0.56-3.28)	0.49		
Protection last intercourse							
No	83(90.2)	54(85.7)	0.72	1			
Yes	8(8.7)	8(12.7)		1.53 (0.54-4.34)	0.41		
No answer	1(1.1)	1(1.6)		1.53 (0.09-25.09)	0.76		
Partner HIV positivity							
Don't know	53(57.6)	38(60.3)	0.73	1			
No	39(42.4)	25(39.7)		0.89 (0.46-1.71)	0.73		
Yes							
Multiple partners							
No	74(80.4)	49(77.8)	0.86	1			
Yes	16(17.4)	13(20.6)		1.22 (0.54-2.77)	0.62		
No answer	2(2.2)	1(1.6)		0.75 (0.06-8.55)	0.82		
Consensual sexual intercourse							
No	3(3.3)	1(1.6)	0.64	1			
Yes	89(96.7)	62(98.4)		2.09 (0.21-20.50)	0.52		
Partner who has other partners							
Don't know	21(22.8)	17(27.0)	0.30	1		1	
No	34(37.0)	28(44.4)		1.01 (0.45-2.29)	0.96	1.03 (0.43-2.43)	0.94
Yes	21(22.8)	7(11.1)		0.41 (0.14-1.19)	0.10*	0.38 (0.12-1.20)	0.10
No answer	16(17.4)	11(17.5)		0.84 (0.31-2.30)	0.74	0.72 (0.25-2.11)	0.56
Use of tampons							
No	11(12.0)	15(23.8)	0.05	1		1	
Yes	81(88.0)	48(76.2)		0.43 (0.18-1.02)	0.05**	0.23 (0.11-0.75)	0.01*

**Table 11. Descriptive analysis and logistic regression of risk factors associated with vaginal trichomoniasis**

Vaginal Trichomoniasis	Descriptive analysis			Logistic regression analysis			
	Chi-square		p-value	Univariate		Multivariate	
	Negative n (%)	Positive n (%)		OR (95% CI)	p-Value	a OR (95% CI)	p-Value
Characteristics							
Age brackets			0.34				
[18 - 25]	44 (29.1)	3 (75)		1			
[26 - 29]	31 (20.5)	0 (0)		0.00-	0.99		
[30 - 35]	43 (28.5)	1 (25)		0.34 (0.03-3.41)	0.36		
[36 - 45]	33 (21.9)	0 (0)		0.00-	0.99		
Marital situation			0.61				
Married/in relationship	99 (65.6)	2 (50)		1			
Not married/not in relationship	52 (34.4)	2 (50)		1.90 (0.26-13.97)	0.53		
Length of relationship			0.24				
≤10	104 (68.9)	2 (50)		1		1	
Don't know	26 (17.2)	2 (50)		4.00 (0.54-29.75)	0.18*	0.28 (0.01-5.58)	0.40
> 10	21 (13.9)			0.00-	0.99	0.00-	0.99
Level of education			0.83				
No education	26 (17.2)	0 (0)		0.00-	0.99		
Full Primary school	39 (25.8)	2 (50)		2.00 (0.17-22.97)	0.58		
Full Secondary school	47 (31.2)	1 (25)		0.83 (0.05-13.70)	0.89		
Post-Secondary education	39 (25.8)	1 (25)		1			
Monthly income (US \$)			0.86				
≤30	41 (27.2)	1 (25)		1			
32-70	40 (26.5)	1 (25)		1.03 (0.06-16.95)	0.98		
72-140	25 (16.5)	0 (0)		0.00-	0.99		
Don't earn money	39 (25.8)	2 (50)		2.10 (0.18-24.13)	0.55		
>140	6 (4)	0 (0)		0.00-	0.99		
Average length menstruation			0.25				
<4 days	47 (31.1)	3 (75)		1		1	
[4 - 7] days	93 (61.6)	1 (25)		0.17 (0.02-1.66)	0.13*	0.10 (0.01-1.57)	0.10
Irregular	10 (6.6)	0 (0)		0.00-	0.99	0.00-	0.99
>7 days	1 (0.7)	0 (0)		0.00-	1.00	0.00-	1.00
Vaginal hygiene methods			0.21				
Water	74 (49)	0 (0)		1			
Water and soap	73 (48.4)	4 (100)		NA			
Never	4 (2.6)	0 (0)		1.00 -----	1		
Objects used intimate cleansing			0.54				
No	26 (17.2)	1 (25)		1			
Yes	125 (82.8)	3 (75)		0.62 (0.06-6.24)	0.69		

Products_introduced_vaginally								
No	56 (37.1)	0 (0)	0.29	1				
Yes	95 (62.9)	4 (100)		NA				
Intercourse_during_menstruation								
No	148 (98)	4 (100)	1.00	1				
Yes	3 (2)	0 (0)		0.00-	0.99			
Number_of_pregnancies								
≤4	93 (61.6)	3 (75)	1.00	1				
Never	51 (33.8)	1 (25)		0.61 (0.06-5.99)	0.67			
>4	7 (4.6)	0 (0)		0.00-	0.99			
Outcome_of_the_last_pregnancy								
Pregnant	15 (9.9)	0 (0)	0.69	0.00-	0.99			
Miscarriage	32 (21.2)	0 (0)		0.00-	0.99			
Never	50 (33.1)	1 (25)		0.36 (0.04-3.58)	0.38			
Live birth	54 (35.8)	3 (75)		1				
Contraception								
No	77 (51)	3 (75)	0.62	1				
Yes	74 (49)	1 (25)		0.35 (0.04-3.41)	0.36			
Tobacco								
No	148 (98)	4 (100)	1.00	1				
Yes	3 (2)	0 (0)		0.00-	0.99			
Alcohol								
No	148 (98)	4 (100)	1.00	1				
Yes	3 (2)	0 (0)		0.00-	0.99			
Sexual_relationships_last_6_months								
No	10 (6.6)	0 (0)	1.00	1				
Yes	141 (93.4)	4 (100)		NA				
Use_of_condoms								
No	125 (82.8)	3 (75)	0.54	1				
Yes	26 (17.2)	1 (25)		1.60 (0.16-16.02)	0.69			
Number_of_ifetime_sexual_partners								
≤1	26 (17.2)	0 (0)	1.00	1				
>1	125 (82.8)	4 (100)		NA				
Protection_last_intercourse								
No	133 (88.1)	4 (100)	1.00	1				
Yes	16(10.6)	0 (0)		0.00-	0.99			
No answer	2 (1.3)	0 (0)		0.00-	1.00			
Partner_HIV_positivity								
Don't know	88 (58.3)	3 (75)	0.64	1				
No	63 (41.7)	1 (25)		0.47 (0.05-4.58)	0.51			
Multiple_partners								
No	122 (80.8)	1 (25)	0.03*	1		1		
Yes	26 (17.2)	3 (75)		14.08 (1.41-140.75)	0.02**	26.21 (1.11-617.64)	0.04*	
No answer	3 (2)	0 (0)		0.00-	0.99	0.00-	0.99	
Consensual_sexual_intercourse								
No	4 (2.6)	0 (0)	1.00	1				
Yes	147 (97.4)	4 (100)		NA				

Partner_who_has_other_partners			0.08				
Don't know	36 (23.8)	2 (50)		1			
No	62 (41.1)	0 (0)		0.00-	0.99		
Yes	28 (18.5)	0 (0)		0.00-	0.99		
No answer	25 (16.6)	2 (50)		1.440 (0.19-10.91)	0.72		
Use of tampons			1.00				
No	26 (17.2)	0 (0)		1			
Yes	125 (82.8)	4 (100)		NA			

**Table 12. Descriptive analysis and logistic regression of risk factors associated with bacterial vaginitis**

Bacterial Vaginitis	Descriptive analysis			Logistic regression analysis			
	Chi-square			Univariate		Multivariate	
	Negative	Positive	p-value	OR (95% CI)	p-Value	a OR (95% CI)	p-Value
Characteristics	n (%)	n (%)					
Age brackets			0.31				
[18 - 25]	47 (31.3)	0 (0)		0.00-	0.99		
[26 - 29]	29 (19.3)	2 (40)		2.21 (0.19-25.64)	0.53		
[30 - 35]	42 (28)	2 (40)		1.52 (0.13-17.56)	0.74		
[36 - 45]	32 (21.4)	1 (20)		1			
Marital situation			0.66				
Married/in relationship	97 (64.7)	4 (100)		1			
Not married/not in relationship	54 (35.3)	0 (0)		0.46 (0.05-4.19)	0.49		
Length of relationship			0.64				
≤10	102 (68.)	4 (0)		1			
Don't know	28 (18.7)	0 (0)		0.00-	0.99		
> 10	20 (13.3)	1 (20)		1.28 (0.14-12.01)	0.83		
Level of education			0.93				
No education	25 (16.7)	1 (20)		1			
Full Primary school	39 (26)	2 (40)		1.28 (0.11-14.89)	0.84		
Full Secondary school	47 (31.3)	1 (20)		0.53 (0.03-8.87)	0.66		
Post-Secondary education	39 (26)	1 (20)		0.64 (0.04-10.72)	0.76		
Monthly income (US \$)			0.76				
≤ 30	41 (27.3)	1 (20)		1			
32-70	39 (26)	2 (40)		2.10 (0.18-24.13)	0.55		
72-140	25 (16.7)	0 (0)		0.00-	0.99		
Don't earn money	39 (26)	2 (40)		2.10 (0.18-24.13)	0.55		
>140	6 (4)	0 (0)		0.00-	0.99		
Average_length_menstruation			0.42				
<4 days	49 (32.7)	1 (20)		1			
[4 - 7] days	91 (60.7)	3 (60)		1.62 (0.16-15.95)	0.68		
Irregular	9 (6)	1 (20)		5.44 (0.31-95.21)	0.25		
>7 days	1 (0.6)	0 (0)		0.00-	1.00		
Vaginal_hygiene_methods			1.00				

Water	72 (48.0)	2 (40)		1			
Water and soap	74 (49.3)	3 (60)		1.46 (0.24-8.99)	0.68		
Never	4 (2.7)	0 (0)		0.00-	0.99		
Objects_used_intimate_cleansing							
No	26 (17.3)	1 (20)	1.00	1			
Yes	125 (82.7)	4 (80)		0.84 (0.09-7.81)	0.88		
Products_introduced_vaginally							
No	55 (36.7)	1 (20)	0.65	1			
Yes	95 (63.3)	4 (80)		2.32 (0.25-21.24)	0.46		
Intercourse_during_menstruation							
No	147 (98)	5 (100)	1.00	1			
Yes	3 (2)	0 (0)		0.00-	0.99		
Number_of_pregnancies							
≤4	91 (60.7)	5 (100)	0.34	1			
Never	52 (34.7)	0 (0)		0.00-	0.99		
>4	7 (4.6)	0 (0)		0.00-	0.99		
Outcome_of_the_last_pregnancy							
Pregnant	15 (9.9)	0 (0)	0.23	1			
Miscarriage	31 (20.7)	1 (20)		NA			
Never	51 (34)	0 (0)		1.00 -----	1.00		
Live birth	53 (35.3)	4 (80)		NA			
Contraception							
No	77 (51.3)	3 (60)	1.00	1			
Yes	73 (48.7)	2 (40)		0.70 (0.11-4.33)	0.70		
Tobacco							
No	147 (98)	5 (100)	1.00	1			
Yes	3 (2)	0 (0)		0.00-	0.99		
Alcohol							
No	147 (98)	5 (100)	1.00	1			
Yes	3 (2)	0 (0)		0.00-	0.99		
Sexual_relationships_last_6_months							
No	10 (6.7)	0 (0)	1.00	1			
Yes	140 (93.3)	5 (100)		NA			
Use_of_condoms							
No	124 (82.7)	4 (80)	1.00	1			
Yes	26 (17.3)	1 (20)		1.19 (0.13-11.17)	0.88		
Number_of_lifetime_sexuals_partner							
≤1	25 (16.7)	1 (20)	1.00	1			
>1	125 (83.3)	4 (80)		0.80 (0.09-7.46)	0.85		
Protection_last_intercourse							
No	132 (88)	5 (100)	1.00	1			
Yes	16 (10.7)	0 (0)		0.00-	0.99		
No answer	2 (1.3)	0 (0)		0.00-	0.99		
Partener_HIV_positivity							
Don't know	89 (59.3)	2 (40)	0.41	1			
No	61 (40.7)	3 (60)		1.46 (0.07-2.82)	0.39		
Multiple_partners			0.62				

No	118 (78.7)	4 (100)		1			
Yes	29 (19.3)	0 (0)		0.00-	0.99		
No answer	3 (2)	0 (0)		0.00-	0.99		
Consensual sexual intercourse							
No	4 (2.7)	0 (0)	1.00	1			
Yes	146 (97.3)	5 (100)		NA			
Partner_who_has_other_partners							
Don't know	36 (24)	2 (40)		1			
No	59 (39.3)	3 (60)	0.58	0.92 (0.15-5.74)	0.93		
Yes	28 (18.7)	0 (0)		0.00-	0.99		
No answer	27 (18)	0 (0)		0.00-	0.99		
Use of tampons							
No	25 (16.7)	1 (20)	1.00	1			
Yes	125 (83.3)	4 (80)		0.80 (0.09-7.46)	0.85		