

Supplemental Table 1. Additional characteristics of HIV-positive female sex workers at each stage of the conditional 90-90-90 cascade in Port Moresby, 2016

	HIV Positive N=94 n (%; 95% CI)	Self-reported HIV- positive aware (N=42) n (%; 95% CI)	Self-reported on treatment (N=36) n (%; 95% CI)	Suppressed viral load (N=20) n (%; 95% CI)
Religious affiliation				
Seventh Day Adventist	26 (35.7; 22.6-48.8)	14 (50.6; 25.3-75.9)	12 (82.5; 52.3-100.0)	7 (57.9; 14.6-100.0)
Protestant	30 (26.5; 15.7-37.2)	15 (39.0; 17.4-60.5)	14 (86.8; 60.3-100.0)	7 (45.9; 12.9-78.8)
Other	38 (37.8; 25.4-50.2)	13 (28.1; 11.4-44.8)	10 (67.6; 33.0-100.0)	6 (56.5; 13.7-99.3)
Number of children responsible for at home				
None	42 (49.1; 36.0-62.1)	14 (25.2; 10.0-40.4)	11 (79.0; 51.8-100.0)	6 (61.9; 22.5-100.0)
One or more	51 (50.9; 37.9-64.0)	27 (51.5; 33.1-69.9)	24 (79.3; 56.4-100.0)	14 (52.3; 23.2-81.4)
Number times away from home, last 6 months				
0 times	27 (34.6; 21.8-47.3)	11 (43.9; 19.8-68.1)	9 (77.0; 39.5-100.0)	6 (61.6; 12.9-100.0)
1-5 times	37 (41.5; 28.3-54.7)	15 (35.6; 15.2-56.0)	14 (90.5; 70.2-100.0)	9 (58.5; 18.7-98.2)
6 or more times	26 (23.9; 13.2-34.7)	13 (35.2; 12.6-57.8)	10 (60.5; 22.3-98.7)	4 (37.1; 0.0-75.5)
Can rely on other FSW to borrow money from them				
Yes	45 (50.3; 37.3-63.3)	19 (33.8; 17.1-50.5)	15 (76.5; 52.2-100.0)	8 (44.5; 10.0-79.0)
No	49 (49.7; 36.7-62.7)	23 (44.2; 25.7-62.7)	21 (81.9; 56.8-100.0)	12 (60.9; 30.7-91.1)
Physical violence, ever				
Yes	57 (54.7; 41.7-67.8)	30 (42.3; 25.8-58.8)	27 (80.5; 57.2-100.0)	14 (50.1; 24.8-75.3)
No	37 (45.3; 32.2-58.3)	12 (35.0; 15.2-54.8)	9 (78.3; 50.2-100.0)	6 (60.1; 11.9-100.0)
Sexual violence, ever				
Yes	39 (34.6; 22.8-46.4)	21 (49.7; 29.4-69.9)	20 (92.1; 75.9-100.0)	11 (43.9; 15.0-72.7)
No	55 (65.4; 53.6-77.1)	21 (33.4; 17.6-49.2)	16 (69.8; 42.1-97.4)	9 (64.7; 30.2-99.3)
Age first sold or exchanged sex with a man				
10-19	39 (33.9; 21.8-46.0)	19 (40.2; 20.0-60.4)	18 (88.8; 66.2-100.0)	10 (62.8; 32.8-92.9)
20-29	36 (49.7; 36.2-63.3)	16 (40.2; 20.2-60.1)	12 (65.6; 33.4-97.9)	5 (34.8; 0.0-69.7)
30 or more	12 (16.4; 5.8-27.0)	6 (59.4; 19.5-99.3)	6 (100.0; 100.0-100.0)	5 (69.3; 1.2-100.0)
Had a client who did not want to use condom, last 6 months				
Yes	69 (74.0; 62.7-85.2)	31 (39.4; 24.7-54.1)	27 (82.0; 62.3-100.0)	14 (46.8; 21.0-72.7)
No	25 (26.0; 14.8-37.3)	11 (38.0; 13.2-62.8)	9 (72.5; 33.6-100.0)	6 (78.4; 44.5-100.0)
Number of male clients who gave money, last 6 months				
< 5 partners	52 (67.4; 55.9-78.8)	23 (38.7; 22.3-55.1)	18 (71.0; 46.0-95.9)	10 (63.1; 32.2-94.1)
5 or more partners	41 (32.6; 21.2-44.1)	19 (41.4; 21.6-61.1)	18 (96.2; 88.0-100.0)	10 (41.2; 10.2-72.3)
Used condoms with all male clients who gave money, last 6 months				
Yes	32 (32.1; 19.9-44.2)	14 (39.4; 16.9-61.8)	12 (78.1; 47.4-100.0)	8 (70.9; 35.3-100.0)
No	61 (67.9; 55.8-80.1)	28 (39.7; 24.1-55.2)	24 (80.3; 58.8-100.0)	12 (46.4; 18.8-74.1)
Had a casual male partner, last 6 months				
Yes	23 (24.6; 13.4-35.8)	12 (32.2; 9.7-54.7)	9 (59.3; 19.3-99.3)	6 (61.1; 16.1-100.0)
No	71 (75.4; 64.2-86.6)	30 (41.2; 26.4-56.1)	27 (84.8; 66.1-100.0)	14 (52.8; 27.0-78.7)

Supplemental Table 2. Additional characteristics of HIV-positive men who have sex with men and transgender women in Port Moresby, 2016

	HIV Positive MSM/TGW N=30	HIV Positive MSM N=15	HIV Positive TGW N=15	HIV-positive Aware MSM/TGW (N=7)
	n (%; 95% CI)	n (%; 95% CI)	n (%; 95% CI)	n (%; 95% CI)
Religious affiliation				
Seventh Day Adventist	5 (13.8; 0.0-28.7)	2 (15.5; 0.0-41.2)	3 (11.6; 0.0-26.8)	1 (10.8; 0.0-45.8)
Protestant	15 (56.6; 34.6-78.6)	7 (48.3; 14.1-82.6)	8 (67.0; 38.9-95.1)	5 (38.8; 5.8-71.7)
Other	10 (29.6; 10.0-49.2)	6 (36.2; 4.5-67.8)	4 (21.4; 0.0-45.8)	1 (3.4; 0.0-11.6)
Told friends who are not MSM/TGW about having sex with men/TGW				
Yes	14 (53.3; 30.8-75.7)	6 (53.5; 19.7-87.4)	8 (52.9; 19.7-86.1)	4 (26.7; 0.0-56.4)
No	16 (46.7; 24.3-69.2)	9 (46.5; 12.6-80.3)	7 (47.1; 13.9-80.3)	3 (21.9; 0.0-51.7)
Told family about having sex with men/TGW				
Yes	12 (46.3; 23.7-68.9)	4 (40.1; 5.4-74.7)	8 (54.2; 21.0-87.3)	5 (35.8; 0.4-71.3)
No	18 (53.7; 31.1-76.3)	11 (59.9; 25.3-94.6)	7 (45.8; 12.7-79.0)	2 (14.6; 0.0-39.8)
Away from home for one or more nights, last 6 months				
0 times	8 (33.5; 10.9-56.1)	2 (28.0; 0.0-63.6)	6 (39.6; 6.9-72.3)	3 (34.4; 0.0-83.5)
1-5 times	12 (38.4; 16.2-60.6)	9 (58.5; 22.5-94.5)	3 (16.1; 0.0-37.0)	0 (0.0; 0.0-0.0)
6 or more times	9 (28.1; 8.4-47.9)	3 (13.5; 0.0-33.0)	6 (44.3; 11.0-77.5)	4 (52.3; 5.8-98.8)
Ashamed of having sex with men/TGW				
Yes	9 (30.3; 9.6-51.0)	6 (41.2; 7.5-74.8)	3 (16.6; 0.0-38.1)	1 (4.9; 0.0-17.2)
No	21 (69.7; 49.0-90.4)	9 (58.8; 25.2-92.5)	12 (83.4; 61.9-100.0)	6 (32.9; 6.2-59.6)
Can rely on other MSM/TGW to help them with a violent/ difficult situation or person				
Yes	20 (71.7; 51.0-92.3)	8 (68.9; 37.4-100.0)	12 (75.0; 43.7-100.0)	5 (21.5; 0.0-43.9)
No	8 (28.3; 7.7-49.0)	5 (31.1; 0.0-62.6)	3 (25.0; 0.0-56.3)	2 (33.0; 0.0-84.4)
Can rely on other MSM/TGW to borrow money from them				
Yes	20 (63.0; 40.6-85.4)	12 (81.2; 53.1-100.0)	8 (40.4; 9.8-71.0)	4 (13.4; 0.0-28.9)
No	9 (37.0; 14.6-59.4)	2 (18.8; 0.0-46.9)	7 (59.6; 29.0-90.2)	3 (43.8; 0.0-90.2)
Physical violence, ever				
Yes	13 (41.9; 18.7-65.1)	7 (43.1; 6.0-80.3)	6 (40.5; 7.6-73.4)	3 (25.9; 0.0-61.5)
No	15 (58.1; 34.9-81.3)	6 (56.9; 19.7-94.0)	9 (59.5; 26.6-92.4)	4 (26.0; 0.0-54.7)
Sexual violence, ever				
Yes	12 (33.4; 12.6-54.1)	5 (25.1; 0.0-53.5)	7 (43.9; 10.9-76.8)	3 (30.6; 0.0-70.8)
No	18 (66.6; 45.9-87.4)	10 (74.9; 46.5-100.0)	8 (56.1; 23.2-89.1)	4 (21.3; 0.0-45.1)
Had sex with a woman in last 6 months				
Yes	10 (48.8; 19.2-78.4)	9 (59.4; 22.4-96.4)	1 (7.9; 0.0-30.5)	1 (3.4; 0.0-11.7)
No	9 (51.2; 21.6-80.8)	4 (40.6; 3.6-77.6)	5 (92.1; 69.5-100.0)	3 (23.6; 0.0-57.4)
Had a main male/TGW partner, last 6 months				

	HIV Positive MSM/TGW N=30	HIV Positive MSM N=15	HIV Positive TGW N=15	HIV-positive Aware MSM/TGW (N=7)
	n (%; 95% CI)	n (%; 95% CI)	n (%; 95% CI)	n (%; 95% CI)
Yes	20 (70.5; 49.8-91.3)	7 (55.8; 21.2-90.4)	13 (88.8; 70.4-100.0)	7 (34.9; 8.0-61.9)
No	9 (29.5; 8.8-50.2)	7 (44.2; 9.6-78.8)	2 (11.2; 0.0-29.6)	0 (0.0; 0.0-0.0)
Had a casual male/TGW partners, last 6 months				
Yes	18 (55.3; 32.4-78.2)	8 (48.5; 13.6-83.4)	10 (63.8; 31.1-96.4)	4 (25.0; 0.0-52.3)
No	11 (44.7; 21.8-67.6)	6 (51.5; 16.6-86.4)	5 (36.2; 3.6-68.9)	3 (24.2; 0.0-58.4)