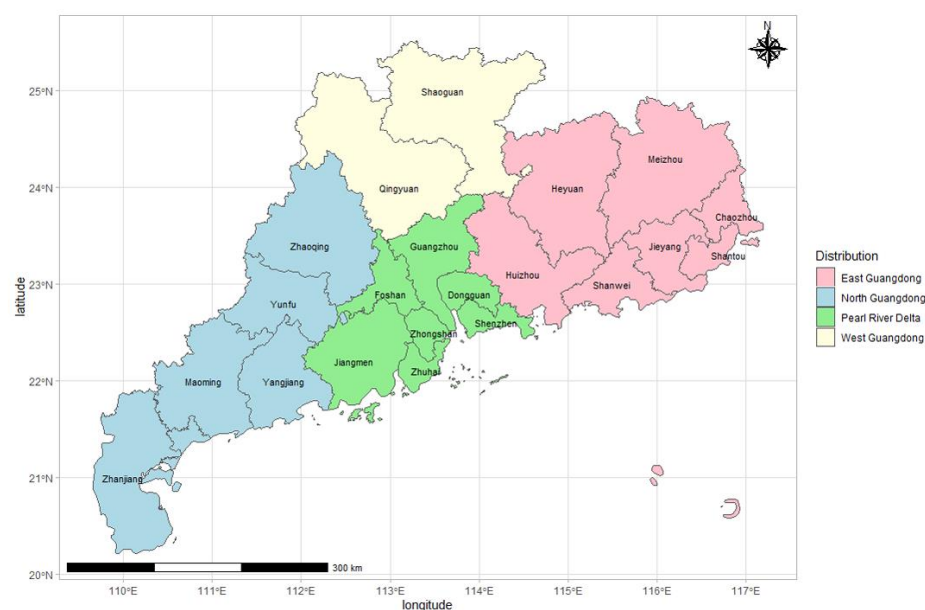


Supplemental Figure 1. Regional Distribution of Guangdong Province**Supplemental Table 1 Factors associated with time to presentation in individuals with gonorrhea infection stratified by gender in Guangdong, China, 2017 (N=1664)**

Characteristics	Male		Female	
	<i>cβ</i> (95% CI)	<i>aβ</i> (95% CI) #	<i>cβ</i> (95% CI)	<i>aβ</i> (95% CI) #
Age				
≤25	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
26-40	-0.15(-0.37,0.07)	-0.04(-0.29,0.21)	-0.17(-0.8,0.47)	-0.69(-1.34, -0.04)
>40	-0.02(-0.3,0.25)	0.07(-0.26,0.41)	-0.59(-1.7,0.52)	-1.48(-2.76, -0.21)
Marital Status				
Married	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
Unmarried/Widow/divorced	0.14(-0.06,0.34)	0.16(-0.08,0.4)	-0.22(-0.93,0.49)	-1.04(-1.89, -0.19) *
Highest Educational Attainment				
Primary school and junior high school	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
Senior high school	-0.18(-0.4,0.04)	-0.17(-0.40,0.06)	-0.08(-0.82,0.66)	-0.57(-1.35,0.20)
Undergraduate and over	-0.20(-0.46,0.06)	-0.17(-0.44,0.10)	0.15(-0.60,0.90)	-0.31(-1.09,0.47)
Sexual orientation				
Heterosexual	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
Gay, bisexual	-0.15(-0.74,0.44)	-0.19(-0.80,0.41)	-	-
Geographic regions				
Pearl River Delta	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
East Guangdong	0.47(0.15,0.79) *	0.54(0.21,0.86) *	-	-
West Guangdong	0.00(-0.61,0.6)	-0.07(-0.69,0.55)	-0.22(-1.21,0.77)	-0.77(-1.89,0.35)
North Guangdong	0.08(-0.32,0.48)	0.02(-0.39,0.43)	-0.49(-2.01,1.04)	0.09(-1.92,2.10)
Previous other STD infections				

Yes	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
No	-0.06(-0.77,0.66)	-0.04(-0.76,0.68)	-0.50(-2.37,1.37)	-0.51(-2.07,1.05)
Previous gonorrhea infection				
Yes	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
No	-0.21(-0.94,0.52)	-0.2(-0.94,0.54)	1.14(-6.44,8.73)	0.84(-5.51,7.18)
Urethral purulent discharge				
Yes	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
No	0.26(0.01,0.51) *	0.24(-0.02,0.49)	-0.42(-1.27,0.42)	-0.5(-1.45,0.45)
Dysuria				
Yes	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
No	0.23(0.00,0.45) *	0.22(0.00,0.45) *	0.34(-0.33,1.00)	0.84(-0.10,1.79)
Frequent micturition				
Yes	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
No	0.08(-0.12,0.28)	0.07(-0.14,0.27)	0.5(-0.41,1.40)	1.02(-0.20,2.23)
Urgent micturition				
Yes	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
No	0.09(-0.11,0.29)	0.08(-0.12,0.29)	0.37(-0.47,1.21)	0.41(-0.57,1.39)
Redness swelling of the urethra or cervix				
Yes	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
No	0.11(-0.09,0.32)	0.15(-0.06,0.36)	0.38(-0.31,1.07)	0.5(-0.28,1.27)
Number of sex partners in the past 6 months				
0	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
1	0.79(-1.44,3.02)	0.8(-1.42,3.02)	0.69(-4.16,5.53)	1.44(-6.40,9.29)
Multiple	0.76(-1.47,2.99)	0.8(-1.42,3.03)	0.69(-4.17,5.55)	1.51(-6.38,9.41)
Having commercial sex in the past 6 months				
No	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
Yes	-0.08(-0.28,0.12)	-0.08(-0.28,0.12)	-0.56(-1.86,0.73)	-0.54(-2.04,0.96)
Consistent condom uses in the past 6 months				
No	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
Yes	-0.34(-0.84,0.15)	-0.35(-0.85,0.14)	-1.02(-5.72,3.68)	-1.33(-7.48,4.82)

Note: # Age, education, and marital status were adjusted for each other; all other variables were adjusted for age, gender, education, and marital status. * $P < 0.05$.

Supplemental Table 2 Factors associated with sexual contact while symptomatic in individuals with gonorrhea infection stratified by gender in Guangdong, China, 2017 (N=1664)

Characteristics	Male		Female	
	cOR(95% CI)	aOR(95% CI) #	cOR(95% CI)	aOR(95% CI) #
Age				
≤25	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
26-40	1.03(0.79,1.32)	1.05(0.79,1.4)	0.81(0.35,1.85)	0.56(0.19,1.63)
>40	1.19(0.86,1.66)	1.16(0.78,1.72)	0.9(0.33,2.47)	0.67(0.18,2.42)

Marital Status				
Married	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
Unmarried/Widow/divorced	0.94(0.75,1.17)	0.99(0.75,1.29)	0.88(0.4,1.93)	0.74(0.26,2.13)
Highest Educational Attainment				
Primary and Junior High School	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
Senior high school	0.92(0.72,1.19)	0.93(0.72,1.21)	1.67(0.73,3.81)	1.89(0.77,4.66)
Undergraduate and over	0.78(0.58,1.05)	0.79(0.58,1.06)	0.63(0.22,1.85)	0.69(0.22,2.11)
Sexual orientation				
Heterosexual	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
Gay/bisexual	0.97(0.54,1.73)	1.01(0.56,1.81)	-	-
Geographic regions				
Pearl River Delta	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
East Guangdong	0.97(0.56,1.69)	0.92(0.53,1.61)	-	-
West Guangdong	1.32(0.7,2.48)	1.26(0.67,2.37)	2.1(0.76,5.83)	2.06(0.66,6.38)
North Guangdong	1.17(0.74,1.86)	1.13(0.71,1.79)	1.05(0.29,3.76)	1.15(0.27,5.01)
Previous gonorrhea infection				
No	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
Yes	1.08(0.39,3.01)	1.10(0.39,3.09)	-	-
Number of days between symptom onset and health care seeking				
0-1	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
2-3	3.52(1.84,6.73) *	3.59(1.88,6.87) *	-	-
4-7	10.16(5.39,19.17) *	10.41(5.52,19.65) *	-	-
>7	43.57(22.5,84.37) *	45.24(23.31,87.79) *	-	-
Urethral purulent discharge				
Yes	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
No	1.31(0.95,1.82)	1.32(0.96,1.83)	0.51(0.22,1.21)	0.42(0.16,1.09)
Dysuria				
Yes	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
No	1.21(0.91,1.61)	1.22(0.92,1.62)	0.53(0.25,1.13)	0.5(0.23,1.08)
Frequent micturition				
Yes	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
No	1.03(0.82,1.29)	1.05(0.84,1.32)	1.2(0.52,2.77)	1.14(0.47,2.79)
Urgent micturition				
Yes	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
No	0.98(0.78,1.23)	1.01(0.8,1.26)	1.2(0.52,2.77)	1.11(0.46,2.66)
Redness swelling of the urethra or cervix				
Yes	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>	<i>Ref</i>
No	0.97(0.77,1.21)	0.99(0.79,1.24)	1.09(0.52,2.29)	1.23(0.56,2.69)

Note: # Age, education, and marital status were adjusted for each other; all other variables were adjusted for age, gender, education, and marital status. * $P < 0.05$.