Supplemental Table 1. Comparison of the characteristics between participants who completed follow-up and those who loss to follow-up

Variables	Women who completed follow-up (*n*=9489)	Women who loss to follow-up (*n*=5453)	*p* value
Mean age, yr (SD)	35.04(8.18)	35.47 (9.13)	0.003
Age (years), n(%)			<0.001
20-45	8167 (86.07)	4405 (80.78)	
≥45	1322 (13.93)	1048 (19.22)	
Race, n(%)			<0.001
Han	9206(97.02)	5212 (95.58)	
Minority	283(2.98)	241 (4.42)	
Mean BMI, kg/m^2 (SD)	22.29(2.65)	22.08 (2.58)	<0.001
BMI, n(%)			0.047
Underweight (<18.5 kg/m^2)	544(5.73)	330 (6.05)	
Normal (18.5-23.9 kg/m^2)	6779(71.44)	3975 (72.90)	
Overweight (24.0-27.9 kg/m^2)	1854(19.54)	1000 (18.34)	
Obese (≥28.0 kg/m^2)	312(3.29)	148 (2.71)	
Occupation, n(%)			<0.001
Manual labor	4647(48.97)	3224 (59.12)	
Intellectual labor	4842(51.03)	2229 (40.88)	
Education, n(%)			0.223
Primary school or lower level	1289(13.58)	777 (14.25)	
Middle or high school	5295(55.80)	3073 (56.35)	
College or higher level	2905(30.61)	1603 (29.40)	
Currently married, n(%)			0.001
No	424 (4.47)	313 (5.74)	
Yes	9065 (95.53)	5140 (94.26)	
Monthly income (yuan per person), n(%)			0.012
≤ RMB 2000	2711(28.57)	1507 (27.64)	
>RMB 2000	3731(39.32)	2225 (40.80)	
>RMB 4000	2481(26.15)	1344 (24.65)	
>RMB 6000	566(5.96)	377 (6.91)	
Menopause, n(%)			0.001

No	9053(95.41)	5132 (94.11)	
Yes	436(4.59)	321 (5.89)	
Previous pelvic surgery, n(%)			<0.001
No	6345 (66.87)	3994 (73.24)	
Yes	3144 (33.13)	1459 (26.76)	
Have given birth, n(%)			0.002
No	1687 (17.78)	1082 (19.84)	
Yes	7802 (82.22)	4371 (80.16)	
Mode of delivery, n(%)			<0.001
None	1687 (17.78)	1082 (19.84)	
Vaginal delivery	5648 (59.52)	3320 (60.88)	
Caesarian delivery	2154 (22.70)	1051 (19.27)	
Parity, n(%)			<0.001
0	1687 (17.78)	1082 (19.84)	
1	4815 (50.74)	2945 (54.01)	
≥2	2987 (31.48)	1426 (26.15)	
Hypertension, n(%)			0.429
No	9212(97.08)	5306 (97.30)	
Yes	277(2.92)	147 (2.70)	
Diabetes, n(%)			<0.001
No	9334(98.37)	5204 (97.27)	
Yes	155(1.63)	149 (2.73)	
Pelvic inflammatory disease, n(%)			0.048
No	7086(74.68)	3992 (73.21)	
Yes	2403(25.32)	1461 (26.79)	
CPP, n(%)			0.214
No	8002(84.33)	4640 (85.09)	
Yes	1487(15.67)	813 (14.91)	
POP, n(%)			<0.001
No	8260(87.05)	4592 (84.21)	
Yes	1229(12.95)	861 (15.79)	

BMI, Body mass index; CPP, Chronic pelvic pain; POP, Pelvic organ prolapse.

Supplemental Table 2. Cumulative incidence of different types of FSD in urban and rural

	Total (*n*=9489) *n* (%)	**Urban (*n*=5321) *n* (%)**	**Rural (*n*=4168) *n* (%)**	***p***
FSD (≤26.55)	4087 (43.07)	2183 (41.03)	1904 (45.68)	<0.001
Dysaphrodisia (<3.6)	6223 (65.58)	3314 (62.28)	2909 (69.79)	<0.001
Arousal difficulties (<3.6)	2900 (30.56)	1378 (25.90)	1522 (36.52)	<0.001
Vaginal lubrication problems (<3.9)	1066 (11.23)	550 (10.34)	516 (12.38)	0.002
Orgasmic dysfunction (<4.0)	1789 (18.85)	895 (16.82)	894 (21.45)	<0.001
Sexual satisfaction disorders (<4.4)	3646 (38.42)	2007 (37.72)	1639 (39.32)	0.111
Dyspareunia (<4.4)	1823 (19.21)	1023 (19.23)	800 (19.19)	0.969

FSD, Female sexual dysfunction.

Supplemental Table 3. Univariate analysis of FSD with potential risk factors

Risk Factors	Urban (*n*=5321)			Rural (*n*=4168)		
	FSD *(n%)*	***RR (95%CI)***	***p***	**FSD *(n%)***	***RR (95%CI)***	***p***
Age (years)						
20-45	1720 (36.41)	reference		1301 (37.79)	reference	
≥45	463 (77.55)	2.13 (2.01-2.26)	<0.001	603 (83.17)	2.20 (2.09-2.32)	<0.001
Race						
Han	2098 (40.86)	reference		1854 (45.53)	reference	
Minority	85 (45.45)	1.11 (0.95-1.31)	0.193	50 (52.08)	1.14 (0.94-1.39)	0.176
BMI (kg/m^2)						
<24.0	1707 (39.86)	reference		1312 (43.14)	reference	
≥24.0	476 (45.81)	1.15 (1.07-1.24)	<0.001	592 (52.53)	1.22 (1.14-1.30)	<0.001
Occupation						
Manual labor	1085 (47.80)	reference		1345 (56.58)	reference	
Intellectual labor	1098 (35.99)	0.75 (0.71-0.80)	<0.001	559 (31.21)	0.55 (0.51-0.60)	<0.001
Education						
Primary school or lower level	255 (66.58)	reference		685 (75.61)	reference	
Middle or high school	1376 (45.28)	0.68 (0.63-0.74)	<0.001	950 (42.11)	0.56 (0.52-0.59)	<0.001
College or higher level	552 (29.07)	0.44 (0.40-0.48)	<0.001	269 (26.74)	0.35 (0.32-0.39)	<0.001
Currently married						
No	75 (29.53)	reference		48 (28.24)	reference	
Yes	2108 (41.60)	1.41 (1.16-1.71)	<0.001	1856 (46.42)	1.64 (1.29-2.09)	<0.001
Monthly income (yuan/person)						
≤ RMB 2000	476 (54.46)	reference		1049 (57.10)	reference	
>RMB 2000	933 (40.85)	0.75 (0.69-0.81)	<0.001	581 (40.15)	0.70 (0.65-0.76)	<0.001
>RMB 4000	662 (38.13)	0.70 (0.64-0.76)	<0.001	227 (30.47)	0.53 (0.48-0.60)	<0.001
>RMB 6000	112 (26.23)	0.48 (0.41-0.57)	<0.001	47 (33.81)	0.59 (0.47-0.75)	<0.001
Menopause						
No	2037 (39.55)	reference		1667 (42.71)	reference	
Yes	146 (85.38)	2.16 (2.01-2.32)	<0.001	237 (89.43)	2.09 (1.98-2.21)	<0.001
Have given birth						
No	322 (29.25)	reference		146 (24.91)	reference	
Yes	1861 (44.1)	1.51 (1.37-1.66)	<0.001	1758 (49.08)	1.97 (1.70-2.28)	<0.001
Mode of delivery						

Vaginal delivery	1403 (47.59)	reference		1467 (54.33)	reference	
cesarean delivery	458 (36.01)	0.76 (0.70-0.82)	<0.001	291 (32.99)	0.61 (0.55-0.67)	<0.001
Parity						
1	1163 (39.18)	reference		670 (36.28)	reference	
≥2	698 (55.75)	1.42 (1.33-1.52)	<0.001	1088 (62.71)	1.73 (1.61-1.86)	<0.001
Pelvic surgery						
No	1486 (39.99)	reference		1105 (42.03)	reference	
Yes	697 (43.43)	1.09 (1.01-1.16)	0.018	799 (51.92)	1.24 (1.16-1.32)	<0.001
Hypertension						
No	2100 (40.36)	reference		1787 (44.57)	reference	
Yes	83 (70.34)	1.74 (1.54-1.97)	<0.001	117 (73.58)	1.65 (1.49-1.82)	<0.001
Diabetes						
No	2143 (40.83)	reference		1845 (45.15)	reference	
Yes	40 (54.79)	1.34 (1.09-1.66)	0.006	59 (71.95)	1.59 (1.39-1.83)	<0.001
Pelvic inflammatory disease						
No	1563 (39.57)	reference		1399 (44.61)	reference	
Yes	620 (45.22)	1.14 (1.07-1.23)	<0.001	505 (48.93)	1.10 (1.02-1.18)	0.014
CPP						
No	1876 (40.69)	reference		1533 (45.21)	reference	
Yes	307 (43.24)	1.06 (0.97-1.16)	0.191	371 (47.75)	1.06 (0.97-1.15)	0.193
POP						
No	1959 (41.00)	reference		1571 (45.12)	reference	
Yes	224 (41.25)	1.01 (0.90-1.12)	0.910	333 (48.54)	1.08 (0.99-1.17)	0.093

RR, relative risk; FSD, female sexual dysfunction; BMI, Body mass index; CPP, Chronic pelvic pain; POP, Pelvic organ prolapse.