

Appendix

A1 Tobacco use – All Participants

In total, 22.6% (n=899) of participants reported that they currently smoke tobacco products (27.2% in Bangladesh, 15.0% in India and 24.2% in Pakistan). Of those who smoke, 90.0% (n=807) reported that they smoke daily (96.6% in Bangladesh, 77.0% in India and 88.6% in Pakistan). 28.6% (n=1130) of participants reported that they have smoked tobacco in the past. Additionally, 20.3% (n=804) of participants reported that they currently use smokeless tobacco products (17.3% in Bangladesh, 14.6% in India and 28.7% in Pakistan) (Table A1).

Table A1: Participant tobacco use summarised descriptively overall and by country.

	Bangladesh (n=1500)	India (n=1175)	Pakistan (n=1314)	Overall (n=3989)
Currently smokes tobacco products, n (%)				
<i>Number with data</i>	1500 (100)	1175 (100)	1304 (99.2)	3979 (99.7)
Yes	408 (27.2)	176 (15.0)	315 (24.2)	899 (22.6)
No	1092 (72.8)	999 (85.0)	989 (75.8)	3080 (77.4)
Currently smokes tobacco products daily, n (% of those who smoke)				
<i>Number with data</i>	408 (100)	174 (98.8)	315 (100)	897 (99.8)
Yes	394 (96.6)	134 (77.0)	279 (88.6)	807 (90.0)
No	14 (3.4)	40 (23.0)	36 (11.4)	90 (10.0)
Age when first started smoking				
<i>Number with data (% of those who smoke)</i>	408 (100)	156 (88.6)	314 (99.7)	878 (97.7)
Mean (SD)	16.9 (3.4)	19.2 (7.7)	20.6 (7.1)	18.6 (6.1)
Median (IQR)	16.0 (15.0-18.0)	18.0 (15.0-22.0)	20.0 (16.0-24.0)	18.0 (15.0-20.0)
Min, Max	8.0, 37.0	1.0, 50.8	4.0, 52.0	1.0, 52.0
Average number smoked per day:				
Manufactured cigarettes				
<i>Number with data (% of smokers)</i>	385 (94.4)	83 (47.2)	278 (88.3)	746 (83.0)
Mean (SD)	8.2 (6.1)	8.8 (13.4)	12.5 (12.6)	9.8 (10.1)
Median (IQR)	7.0 (5.0-10.0)	4.3 (1.4-10.0)	10.0 (3.0-20.0)	7.0 (4.0-12.0)
Min, Max	0.3, 70.0	0.1, 77.0	0.1, 80.0	0.1, 80.0
Hand-rolled cigarettes	25 (6.1)	53 (30.1)	26 (8.3)	104 (11.6)

Number with data (% of smokers)	15.8 (11.7)	15.9 (17.3)	5.9 (6.9)	13.4 (14.6)
Mean (SD)	15.0 (5.0-25.0)	12.0 (6.0-20.0)	3.0 (1.0-10.0)	10.0 (3.5-20.0)
Median (IQR)	2.0, 50.0	0.3, 100.0	0.1, 20.0	0.1, 100.0
Min, Max				
Cigars, cheroots, cigarillos				
Number with data (% of smokers)	0 (0)	0 (0)	28 (8.8)	28 (3.1)
Mean (SD)	-	-	3.8 (4.4)	3.8 (4.4)
Median (IQR)	-	-	3.0 (1.0-4.0)	3.0 (1.0-4.0)
Min, Max	-	-	0.1, 20.0	0.1, 20.0
Number of Shisha sessions				
Number with data (% of smokers)	0 (0)	0 (0)	3 (1.0)	3 (0.3)
Mean (SD)	-	-	0.2 (0.1)	0.2 (0.1)
Median (IQR)	-	-	0.1 (0.1-0.3)	0.1 (0.1-0.3)
Min, Max	-	-	0.1, 0.3	0.1, 0.3
Previously smoked tobacco products, n (%)				
Number with data	1500 (100)	1161 (98.8)	1293 (98.4)	3954 (99.1)
Yes	488 (32.5)	211 (18.2)	431 (33.3)	1130 (28.6)
No	1012 (67.5)	950 (81.8)	862 (66.7)	2824 (71.4)
Previously smoked tobacco products daily, n (% of those who previously smoked)				
Number with data	485 (99.4)	208 (98.6)	431 (100)	1124 (99.5)
Yes	461 (95.1)	156 (75.0)	353 (81.9)	970 (86.3)
No	24 (4.9)	52 (25.0)	78 (18.1)	154 (13.7)
Currently uses smokeless tobacco products, n (%)				
Number with data	1499 (99.9)	1164 (99.1)	1302 (99.1)	3965 (99.4)
Yes	260 (17.3)	170 (14.6)	374 (28.7)	804 (20.3)
No	1239 (82.7)	994 (85.4)	928 (71.3)	3161 (79.7)
Currently uses smokeless tobacco products daily, n (% of those currently using smokeless tobacco)				
Number with data	259 (99.6)	169 (99.4)	374 (100)	802 (99.8)
Yes	220 (84.9)	120 (71.0)	337 (90.1)	677 (84.4)
No	39 (15.1)	49 (29.0)	37 (9.9)	125 (15.6)

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A2 Smoking – All Participants

Table A2a: Participant tobacco use summarised descriptively overall and by country for **male participants** only.

	Bangladesh (n=915)	India (n=648)	Pakistan (n=796)	Overall (n=2359)
Currently smokes tobacco products, n (%)				
<i>Number with data</i>	<i>915 (100)</i>	<i>648 (100)</i>	<i>792 (99.5)</i>	<i>2355 (99.8)</i>
Yes	405 (44.3)	168 (25.9)	286 (36.1)	859 (36.5)
No	510 (55.7)	480 (74.1)	506 (63.9)	1496 (63.5)
Currently smokes tobacco products daily, n (% of those who smoke)				
<i>Number with data</i>	<i>405 (100)</i>	<i>167 (99.4)</i>	<i>286 (100)</i>	<i>858 (99.9)</i>
Yes	392 (96.8)	130 (77.8)	252 (88.1)	774 (90.2)
No	13 (3.2)	37 (22.2)	34 (11.9)	84 (9.8)
Age when first started smoking				
Number with data (% of those who smoke)	<i>405 (100)</i>	<i>149 (88.7)</i>	<i>285 (99.7)</i>	<i>839 (97.7)</i>
Mean (SD)	16.9 (3.4)	19.2 (7.9)	20.2 (6.4)	18.4 (5.7)
Median (IQR)	16.0 (15.0-18.0)	18.0 (15.0-22.0)	20.0 (16.0-23.0)	18.0 (15.0-20.0)
Min, Max	8.0, 37.0	1.0, 50.8	4.0, 50.0	1.0, 50.8
Average number smoked per day:				
Manufactured cigarettes				
Number with data and smoked non-zero value (% of smokers)	<i>382 (94.3)</i>	<i>80 (47.6)</i>	<i>266 (93.0)</i>	<i>728 (84.7)</i>
Mean (SD)	8.2 (6.1)	8.5 (13.4)	12.6 (12.3)	9.8 (10.0)
Median (IQR)	7.0 (5.0-10.0)	4.1 (1.7-10.0)	10.0 (3.0-20.0)	7.0 (4.0-12.0)
Min, Max	0.3, 70.0	0.1, 77.0	0.1, 80.0	0.1, 80.0
Hand-rolled cigarettes	<i>25 (6.2)</i>	<i>52 (31.0)</i>	<i>25 (8.7)</i>	<i>102 (11.9)</i>

Number with data and smoked non-zero value (% of smokers)	15.8 (11.7)	16.0 (17.4)	5.3 (6.4)	13.3 (14.7)
Mean (SD)	15.0 (5.0-25.0)	12.0 (5.5-20.0)	3.0 (1.0-10.0)	10.0 (3.0-20.0)
Median (IQR)	2.0, 50.0	0.3, 100.0	0.1, 20.0	0.1, 100.0
Min, Max				
Cigars, cheroots, cigarillos				
Number with data and smoked non-zero value (% of smokers)	0 (0)	0 (0)	12 (4.2)	12 (1.4)
Mean (SD)	-	-	3.7 (5.9)	3.7 (5.9)
Median (IQR)	-	-	1.0 (0.1-4.0)	1.0 (0.1-4.0)
Min, Max	-	-	0.1, 20.0	0.1, 20.0
Number of Shisha sessions				
Number with data and smoked non-zero value (% of smokers)	0 (0)	0 (0)	3 (1.0)	3 (0.3)
Mean (SD)	-	-	0.2 (0.1)	0.2 (0.1)
Median (IQR)	-	-	0.1 (0.1-0.3)	0.1 (0.1-0.3)
Min, Max	-	-	0.1, 0.3	0.1, 0.3
Previously smoked tobacco products, n (%)				
<i>Number with data</i>	915 (100)	637 (98.3)	786 (98.7)	2338 (99.1)
Yes	479 (52.3)	191 (30.0)	385 (49.0)	1055 (45.1)
No	436 (47.7)	446 (70.0)	401 (51.0)	1283 (54.9)
Previously smoked tobacco products daily, n (% of those who previously smoked)				
<i>Number with data</i>	476 (52.0)	189 (99.0)	385 (100)	1050 (99.5)
Yes	457 (96.0)	145 (76.7)	322 (83.6)	924 (88.0)
No	19 (4.0)	44 (23.3)	63 (16.4)	126 (12.0)
Currently uses smokeless tobacco products, n (%)				
<i>Number with data</i>	914 (99.9)	641 (98.9)	791 (99.4)	2346 (99.4)
Yes	148 (16.2)	118 (18.4)	325 (41.1)	591 (25.2)
No	766 (83.8)	523 (81.6)	466 (58.9)	1755 (74.8)

No				
Currently uses smokeless tobacco products daily, n (% of those currently using smokeless tobacco)				
<i>Number with data</i>	<i>148 (100)</i>	<i>117 (99.2)</i>	<i>325 (100)</i>	<i>590 (99.8)</i>
Yes	117 (79.1)	85 (72.6)	293 (90.2)	495 (83.9)
No	31 (20.9)	32 (27.4)	32 (9.8)	95 (16.1)

Table A2b: Participant tobacco use summarised descriptively overall and by the country for **female participants** only.

	Bangladesh (n=585)	India (n=527)	Pakistan (n=518)	Overall (n=1630)
Currently smokes tobacco products, n (%)				
<i>Number with data</i>	<i>585 (100)</i>	<i>527 (100)</i>	<i>512 (98.8)</i>	<i>1624 (99.6)</i>
Yes	3 (0.5)	8 (1.5)	29 (5.7)	40 (2.5)
No	582 (99.5)	519 (98.5)	483 (94.3)	1584 (97.5)
Currently smokes tobacco products daily, n (% of those who smoke)				
<i>Number with data</i>	<i>3 (100)</i>	<i>7 (87.5)</i>	<i>29 (100)</i>	<i>39 (97.5)</i>
Yes	2 (66.7)	4 (57.1)	27 (93.1)	33 (84.6)
No	1 (33.3)	3 (42.9)	2 (6.9)	6 (15.4)
Age when first started smoking				
Number with data (% of those who smoke)	3 (100)	7 (87.5)	29 (100)	39 (97.5)
Mean (SD)	15.0 (2.6)	19.4 (4.1)	25.1 (11.0)	23.3 (10.2)
Median (IQR)	16.0 (12.0-17.0)	21.0 (17.0-21.0)	20.0 (18.0-30.0)	20.0 (17.0-25.0)
Min, Max	12.0, 17.0	12.0, 25.0	10.0, 52.0	10.0, 52.0
Average number smoked per day:				
Manufactured cigarettes	<i>3 (100)</i>	<i>3 (37.5)</i>	<i>12 (41.4)</i>	<i>18 (45.0)</i>
Number with data and smoked non-zero value (% of				

smokers)	4.5 (5.0)	16.4 (14.1)	9.9 (17.3)	10.1 (15.3)
Mean (SD)	3.0 (0.4-10.0)	24.0 (0.1-25.0)	2.0 (1.0-13.0)	2.5 (1.0-20.0)
Median (IQR)	0.4, 10.0	0.1, 25.0	0.1, 60.0	0.1, 60.0
Min, Max				
Hand-rolled cigarettes				
Number with data and smoked non-zero value (% of smokers)	0 (0)	1 (12.5)	1 (3.4)	2 (5.0)
Mean (SD)	-	12.0 (.)	20.0 (.)	16.0 (5.7)
Median (IQR)	-	12.0 (12.0-12.0)	20.0 (20.0-20.0)	16.0 (12.0-20.0)
Min, Max	-	12.0, 12.0	20.0, 20.0	12.0, 20.0
Cigars, cheroots, cigarillos				
Number with data and smoked non-zero value (% of smokers)	0 (0)	0 (0)	16 (55.2)	16 (40.0)
Mean (SD)	-	-	3.9 (3.1)	3.9 (3.1)
Median (IQR)	-	-	3.0 (1.5-5.5)	3.0 (1.5-5.5)
Min, Max	-	-	0.4, 10.0	0.4, 10.0
Number of Shisha sessions				
Number with data and smoked non-zero value (% of smokers)	0 (0)	0 (0)	0 (0)	0 (0)
Mean (SD)	-	-	-	-
Median (IQR)	-	-	-	-
Min, Max	-	-	-	-
Previously smoked tobacco products, n (%)				
Number with data	585 (100)	524 (99.4)	507 (97.9)	1616 (99.1)
Yes	9 (1.5)	20 (3.8)	46 (9.1)	75 (4.6)
No	576 (98.5)	504 (96.2)	461 (90.9)	1541 (95.4)
Previously smoked tobacco products daily, n (% of those who previously smoked)				
Number with data	9 (100)	19 (95.0)	46 (100)	74 (98.7)
	4 (44.4)	11 (57.9)	31 (67.4)	46 (62.2)
	5 (55.6)	8 (42.1)	15 (32.6)	28 (37.8)

Yes				
No				
Currently uses smokeless tobacco products, n (%)				
<i>Number with data</i>	585 (100)	523 (99.2)	511 (98.6)	1619 (99.3)
Yes	112 (19.1)	52 (9.9)	49 (9.6)	213 (13.2)
No	473 (80.9)	471 (90.1)	462 (90.4)	1406 (86.8)
Currently uses smokeless tobacco products daily, n (% of those currently using smokeless tobacco)				
<i>Number with data</i>	111 (99.1)	52 (100)	49 (100)	212 (99.5)
Yes	103 (92.8)	35 (67.3)	44 (89.8)	182 (85.8)
No	8 (7.2)	17 (32.7)	5 (10.2)	30 (14.2)

A3 Prevalence of Tobacco Cessation Advice – All Participants

The prevalence of receiving tobacco cessation advice for all participants - both those who do and do not use tobacco - was estimated to be 17.6% (95% CI: 15.7–19.7) in Bangladesh, 22.2% (95% CI: 18.7–26.0) in India, and 15.8% (95% CI: 13.4–18.4) in Pakistan. Table A3a displays the prevalence of tobacco cessation advice overall and stratified by relevant participant characteristics for each country.

Table A3a: Overall and stratified prevalence of being given tobacco cessation advice for all participants, for Bangladesh, India and Pakistan.

	Bangladesh (n=1346)		India (n=501)		Pakistan (n=824)	
Frequency Prevalence (95% CI)	Number given tobacco cessation advice/ number in group	Prevalence % (95% CI)	Number given tobacco cessation advice/ number in group	Prevalence % (95% CI)	Number given tobacco cessation advice/ number in group	Prevalence % (95% CI)
Overall	237/1346	17.6 (15.7-19.7)	111/501	22.2 (18.7-26.0)	130/824	15.8 (13.4-18.4)
Stratified prevalence:						
Age						
18 - 24 years	48/391	12.3 (9.4-15.9)	9/51	17.6 (9.4-30.6)	13/97	13.4 (7.9-21.7)
25 - 39 years	132/661	20.0 (17.1-23.2)	49/226	21.7 (16.8-27.5)	68/389	17.5 (14.0-21.6)
40 - 54 years	53/235	22.6 (17.7-28.3)	37/161	23.0 (17.1-30.1)	32/243	13.2 (9.5-18.0)
55+ years	4/59	6.8 (2.6-16.7)	16/63	25.4 (16.2-37.5)	17/95	17.9 (11.4-26.9)

Sex						
Male	227/847	26.8 (23.9-29.9)	104/312	33.3 (28.3-38.8)	121/535	22.6 (19.3-26.4)
Female	10/499	2.0 (1.1-3.7)	7/189	3.7 (1.8-7.6)	9/289	3.1 (1.6-5.9)
SMI						
Psychotic disorder	134/835	16.0 (13.7-18.7)	57/286	19.9 (15.7-25.0)	13/77	16.9 (10.1-26.9)
Major depressive disorder with psychotic features	4/69	5.8 (2.2-14.5)	7/32	21.9 (10.8-39.3)	45/385	11.7 (8.8-15.3)
Bipolar disorder (any)	99/442	22.4 (18.8-26.5)	47/183	25.7 (19.9-32.5)	72/362	19.9 (16.1-24.3)
Duration of the SMI						
Less than or equal to 2 years	53/382	13.9 (10.8-17.7)	13/84	15.5 (9.2-24.9)	15/168	8.9 (5.5-14.3)
3 to 5 years	77/409	18.8 (15.3-22.9)	19/112	17.0 (11.1-25.1)	33/219	15.1 (10.9-20.4)
6 to 10 years	62/304	20.4 (16.2-25.3)	24/131	18.3 (12.6-25.9)	37/186	19.9 (14.8-26.3)
More than 10 years	44/248	17.7 (13.5-23.0)	52/157	33.1 (26.2-40.8)	45/246	18.3 (13.9-23.6)
Income tertile						
Low	104/601	17.3 (14.5-20.5)	54/195	27.7 (21.9-34.4)	61/373	16.4 (12.9-20.5)
Middle	87/430	20.2 (16.7-24.3)	33/165	20.0 (14.6-26.8)	21/194	10.8 (7.2-16.0)
High	45/314	14.3 (10.9-18.7)	22/90	24.4 (16.7-34.4)	48/251	19.1 (14.7-24.5)

Table A3b: Overall and stratified prevalence of being given tobacco cessation advice for those who use tobacco and had a healthcare visit in the past 12-months, for Bangladesh, India and Pakistan.

	Bangladesh (n=536)		India (n=183)		Pakistan (n=381)	
Frequency Prevalence (95% CI)	Number given tobacco cessation advice/ number in group	Prevalence % (95% CI)	Number given tobacco cessation advice/ number in group	Prevalence % (95% CI)	Number given tobacco cessation advice/ number in group	Prevalence % (95% CI)

Overall	218/536	40.7 (36.6-44.9)	90/183	49.2 (42.0-56.4)	114/381	29.9 (25.5-34.7)
Stratified prevalence:						
Age						
18 - 24 years	46/110	41.8 (33.0-51.2)	6/17	35.3 (16.8-59.6)	11/30	36.7 (21.6-54.9)
25 - 39 years	118/283	41.7 (36.1-47.5)	39/86	45.3 (35.2-55.9)	61/186	32.8 (26.4-39.9)
40 - 54 years	50/118	42.4 (33.8-51.5)	33/61	54.1 (41.6-66.1)	26/113	23.0 (16.2-31.7)
55+ years	4/25	16.0 (6.1-35.7)	12/19	63.2 (40.3-81.3)	16/52	30.8 (19.8-44.5)
Sex						
Male	212/459	46.2 (41.7-50.8)	86/166	51.8 (44.2-59.3)	108/334	32.3 (27.5-37.5)
Female	6/77	7.8 (3.5-16.3)	4/17	23.5 (9.1-48.6)	6/47	12.8 (5.8-25.7)
SMI						
Psychotic disorder	125/322	38.8 (33.6-44.3)	47/101	46.5 (37.0-56.3)	11/44	25.0 (14.4-39.8)
Major depressive disorder with psychotic features	4/16	25.0 (9.7-50.9)	5/13	38.5 (17.0-65.7)	38/152	25.0 (18.8-32.5)
Bipolar disorder (any)	89/198	44.9 (38.2-51.9)	38/69	55.1 (43.3-66.3)	65/185	35.1 (28.6-42.3)
Duration of the SMI						
Less than or equal to 2 years	50/135	37.0 (29.3-45.5)	8/30	26.7 (13.9-45.0)	12/55	21.8 (12.8-34.6)
3 to 5 years	73/161	45.3 (37.8-53.1)	13/40	32.5 (19.9-48.3)	30/96	31.3 (22.8-41.2)
6 to 10 years	55/133	41.4 (33.3-49.9)	23/46	50.0 (35.9-64.1)	30/93	32.3 (23.6-42.4)
More than 10 years	39/106	36.8 (28.2-46.4)	45/61	73.8 (61.4-83.3)	42/135	31.1 (23.9-39.4)
Income tertile						
Low	94/244	38.5 (32.6-44.8)	47/76	61.8 (50.5-72.0)	56/187	29.9 (23.8-36.9)
Middle	79/174	45.4 (38.1-52.9)	23/61	37.7 (26.5-50.4)	18/82	22.0 (14.3-32.2)

High	44/117	37.6 (29.3-46.7)	20/33	60.6 (43.3-75.6)	40/111	36.0 (27.7-45.4)
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A4 Association between Smoking Tobacco and Mental and Physical health

Table A4: Descriptive summaries of candidate variables presented by country and whether or not the participant currently smokes tobacco.

	Bangladesh (n=1500)		India (n=1175)		Pakistan (n=1304)*	
	Smoked tobacco (n=408)	Does not smoke tobacco (n=1092)	Smokes tobacco (n=176)	Does not smoke tobacco (n=999)	Smokes tobacco (n=315)	Does not smoke tobacco (n=989)
Depression (PHQ-9 Score)						
n (%)	408 (100)	1092 (100)	176 (100)	999 (100)	315 (100)	989 (100)
Mean (SD)	10.5 (4.4)	10.8 (4.7)	9.5 (8.1)	5.2 (6.3)	12.4 (6.8)	13.0 (6.8)
Median (IQR)	10.0 (8.0-13.0)	10.0 (8.0-14.0)	8.5 (2.0-16.0)	3.0 (0.0-9.0)	13.0 (7.0-18.0)	13.0 (8.0-18.0)
Min, Max	0.0, 23.0	0.0, 27.0	0.0, 27.0	0.0, 27.0	0.0, 27.0	0.0, 27.0
PHQ-9 Group, n (%)						
<i>Number with data</i>						
No/Mild	408 (100)	1092 (100)	176 (100)	999 (100)	315 (100)	989 (100)
depression	174 (42.6)	434 (39.7)	98 (55.7)	791 (79.2)	117 (37.1)	327 (33.1)
Moderate/Severe depression	234 (57.4)	658 (60.3)	78 (44.3)	208 (20.8)	198 (62.9)	662 (66.9)
Anxiety (GAD-7 Score)						
n (%)	408 (100)	1092 (100)	176 (100)	999 (100)	315 (100)	989 (100)
Mean (SD)	7.9 (3.8)	8.1 (3.9)	7.4 (6.5)	4.1 (5.1)	9.7 (4.8)	10.0 (5.2)
Median (IQR)	8.0 (6.0-11.0)	8.0 (6.0-11.0)	6.0 (1.0-13.0)	2.0 (0.0-6.0)	10.0 (6.0-13.0)	10.0 (6.0-14.0)
Min, Max	0.0, 21.0	0.0, 21.0	0.0, 21.0	0.0, 21.0	0.0, 21.0	0.0, 21.0
GAD-7 Group, n (%)						
<i>Number with data</i>						
No/Mild anxiety	262 (64.2)	716 (65.6)	113 (64.2)	852 (85.3)	157 (49.8)	468 (47.3)
	146 (35.8)	376 (34.4)	63 (35.8)	147 (14.7)	158 (50.2)	521 (52.7)

Moderate/Severe anxiety						
Diabetes, n (%)						
<i>Number with data</i>	395 (96.8)	1052 (96.3)	149 (84.7)	867 (86.8)	305 (96.8)	970 (98.1)
Diabetes	29 (7.3)	98 (9.3)	23 (15.4)	141 (16.3)	26 (8.5)	95 (9.8)
No diabetes	366 (92.7)	954 (90.7)	126 (84.6)	726 (83.7)	279 (91.5)	875 (90.2)
Hypertension, n (%)						
<i>Number with data</i>	408 (100)	1092 (100)	176 (100)	997 (99.8)	315 (100)	989 (100)
Yes	33 (8.1)	110 (10.1)	19 (10.8)	123 (12.3)	73 (23.2)	257 (26.0)
No	375 (91.9)	982 (89.9)	157 (89.2)	874 (87.7)	242 (76.8)	732 (74.0)
Heart disease, n (%)						
<i>Number with data</i>	408 (100)	1092 (100)	176 (100)	999 (100)	315 (100)	989 (100)
Yes	2 (0.5)	18 (1.6)	5 (2.8)	28 (2.8)	29 (9.2)	44 (4.4)
No	406 (99.5)	1074 (98.4)	171 (97.2)	971 (97.2)	286 (90.8)	945 (95.6)

*Current smoking status was missing for n=10 participants in Pakistan.

A5 Multiple imputation analysis - Testing the association of determinants of tobacco use

Multiple imputation (MI) analysis was performed as a sensitivity analysis, to compare results under a departure from the MAR assumption that was assumed for the complete-case analysis. For each country separately, an imputation model containing the outcome variable, covariates and auxiliary variables was used to impute missing data using chained equations, for m=10 imputed datasets. Next, the same model as used in the main analysis was performed for each of the imputed datasets, for each country. Finally, the results from each of the m=10 models were combined using Rubin's rules (Rubin, 1987). Parameter estimates are presented in Table A5 for Bangladesh, India and Pakistan, respectively. Estimates are reported alongside the complete-case analysis for comparison.

Table A5: Association of mental and physical health conditions with tobacco use. Parameter estimates from a logistic regression model with multiple imputation are compared to a complete-case analysis.

	Complete-case analysis (n=3575)		Multiple Imputation analysis (n=3989)	
Variable	OR (95% CI)	p-value	OR (95% CI)	p-value
Sex				

Male	Reference	Reference	Reference	Reference
Female	0.14 (0.12-0.17)	p<0.01	0.14 (0.12-0.17)	p<0.01
Age group				
18-24 years	Reference	Reference	Reference	Reference
25-39 years	1.90 (1.51-2.39)	p<0.01	1.89 (1.52-2.36)	p<0.01
40-54 years	2.58 (1.97-3.37)	p<0.01	2.57 (1.99-3.32)	p<0.01
55+ years	2.20 (1.54-3.15)	p<0.01	2.18 (1.55-3.08)	p<0.01
SMI diagnosis				
Bipolar disorder	Reference	Reference	Reference	Reference
Major depressive disorder with psychotic features	0.66 (0.52-0.85)	p<0.01	0.67 (0.53-0.85)	p<0.01
Psychotic disorder	0.94 (0.79-1.13)	p=0.504	0.95 (0.80-1.13)	p=0.586
SMI duration				
<2 years	Reference	Reference	Reference	Reference
3-5 years	1.16 (0.93-1.45)	p=0.186	1.12 (0.91-1.39)	p=0.288
6-10 years	1.25 (0.99-1.58)	p=0.062	1.22 (0.98-1.53)	p=0.077
>10 years	1.12 (0.89-1.43)	p=0.333	1.08 (0.86-1.35)	p=0.526
Level of education				
No formal education	Reference	Reference	Reference	Reference
Primary education	0.62 (0.48-0.79)	p<0.01	0.59 (0.47-0.76)	p<0.01
Secondary education	0.49 (0.37-0.66)	p<0.01	0.50 (0.38-0.65)	p<0.01

Higher/more than secondary	0.37 (0.28-0.48)	p<0.01	0.36 (0.28-0.47)	p<0.01
Income tertile				
Low	Reference	Reference	Reference	Reference
Middle	0.87 (0.73-1.05)	p=0.143	0.89 (0.75-1.06)	p=0.179
High	0.98 (0.81-1.19)	p=0.838	0.99 (0.82-1.20)	p=0.957
Depression				
No/Mild depression	Reference	Reference	Reference	Reference
Moderate/Severe depression	1.18 (0.99-1.42)	p=0.071	1.20 (1.01-1.43)	p=0.040
Anxiety				
No/Mild anxiety	Reference	Reference	Reference	Reference
Moderate/Severe anxiety	1.34 (1.12-1.61)	p<0.01	1.38 (1.16-1.65)	p<0.01
Type 2 Diabetes				
No Diabetes	Reference	Reference	Reference	Reference
Diabetes (HbA1c ≥ 6.5)	1.06 (0.82-1.37)	p=0.669	1.04 (0.81-1.35)	p=0.747
Hypertension/high blood pressure (BP ≥ 140/90)				
No	Reference	Reference	Reference	Reference
Yes	0.93 (0.75-1.15)	p=0.502	0.98 (0.80-1.21)	p=0.851
Heart disease				
No	Reference	Reference	Reference	Reference
Yes	1.16 (0.76-1.76)	p=0.492	1.15 (0.77-1.73)	p=0.500
Country				

Bangladesh	Reference	Reference	Reference	Reference
India	0.51 (0.41-0.63)	p<0.01	0.51 (0.42-0.63)	p<0.01
Pakistan	1.08 (0.87-1.34)	p=0.493	1.05 (0.85-1.30)	p=0.650

OR, Odds ratio. CI, Confidence interval.

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