

SUPPLEMENTARY TABLES

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Supplementary Table 1: Socio-demographic and obstetric characteristics of women by stage and for all stages combined (n=11,454)

Assessment stage	First half of pregnancy	Second half of pregnancy	Within 24 hours of childbirth	Early postnatal	Late postnatal	Total	P value
Number of women	2,204	2,425	2,250	2,264	2,311	11,454	
	%	%	%	%	%	%	
Age category (years)							
<20	11.0	9.4	11.2	11.3	11.3	10.8	0.007
20-24	28.8	26.8	30.6	31.7	28.1	29.2	
25-29	30.7	29.2	29.4	29.8	30.9	30.0	
30-34	15.7	17.8	16.4	15.1	16.4	16.3	
≥35	8.0	8.7	6.6	7.0	7.2	7.5	
Parity							
0 or 1	34.8	30.3	35.7	38.6	35.0	34.8	<0.001
2-4	54.7	56.9	50.8	51.1	55.6	53.8	
≥5	5.9	8.5	6.1	5.7	5.8	6.4	
Marital status							
Single	6.2	6.1	4.9	5.7	4.5	5.5	0.16
Married	92.7	92.5	94.1	93.3	93.7	93.3	
Socioeconomic status (SES)							
1st quintile (upper)	13.7	10.4	10.8	11.2	11.2	11.4	<0.001
2nd quintile	16.5	15.8	15.4	17.4	16.7	16.3	
3rd quintile	31.0	28.8	30.1	28.5	31.8	30.0	
4th quintile	27.5	28.7	29.4	29.3	27.4	28.4	
5th quintile (lower)	8.7	12.1	11.7	10.6	10.3	10.7	
Education level completed							
None	17.2	18.0	20.4	20.9	19.3	19.2	<0.001
Primary	33.1	34.0	35.9	34.1	34.0	34.2	
Secondary	30.0	26.6	25.7	28.1	26.7	27.4	
Post-secondary	15.9	15.6	13.1	13.7	15.5	14.8	

Supplementary Table 2: Infectious, medical, and obstetric morbidity identified per assessment stage for women living in India (n=2,099)

Assessment stage	First half of pregnancy	Second half of pregnancy	Within 24 hours of childbirth	Early postnatal	Late postnatal	Total
Number of women ^{a*}	416	397	423	432	431	2099
	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)
INFECTIOUS MORBIDITY						
Condition						
HIV	2 (0.5%)	2 (0.5%)	1 (0.2%)	1 (0.2%)	0	6 (0.3%)
Malaria	0	0	0	0	2 (0.5%)	2 (0.1%)
Syphilis	0	0	0	0	0	0
Positive screening for chest infection/possible TB	2 (0.5%)	1 (0.2%)	1 (0.2%)	2 (0.5%)	2 (0.5%)	8 (0.4%)
Septic Inflammatory Response Syndrome (SIRS) ^b	43 (10.3%)	66 (16.6%)	47 (11.1%)	63 (14.6%)	70 (16.2%)	289 (13.8%)
MEDICAL OR OBSTETRIC MORBIDITY						
Condition						
Anaemia ^c	184 (44.2%)	228 (57.4%)	282 (66.7%)	309 (71.5%)	265 (61.5%)	1268 (60.4%)
Severe anaemia	4 (1.0%)	13 (3.3%)	12 (2.8%)	17 (3.9%)	5 (1.2%)	51 (2.4%)
Hypertension	2 (0.5%)	16 (4.0%)	7(1.6%)	7 (1.6%)	1 (0.2%)	33 (1.6%)
Low BMI (<18.5 kg/m ²)	30 (7.4%)	9 (2.3%)	9 (2.1%)	9 (2.1%)	10 (2.3%)	67 (3.2%)
High BMI (> 30kg/m ²)	55 (13.6%)	153 (38.9%)	109 (26.0%)	97 (22.5%)	107 (25%)	521 (25.1)
Pre-eclampsia	n/a	0	0	1 (0.2%)	n/a	1 (0.1%)
Urine incontinence	13 (3.1%)	21 (5.3%)	0	2 (0.5%)	0	36 (1.7%)
Antenatal haemorrhage	0	0	n/a	n/a	n/a	0
At least 1 medical or obstetric condition	202 (48.6%)	254 (64.0%)	285 (67.4%)	311 (72.0%)	266 (61.7%)	1318 (62.8%)

^a Where data were missing for a condition the condition was regarded as being absent for purposes of deriving morbidities

^b CRP was not measured at some primary level facilities in Malawi and Pakistan. Only participants for whom a CRP result was obtained are included in these statistics.

^c Anaemia is defined as Hb< 11.0g/dL and severe anaemia is defined as Hb<7g/dL

Supplementary Table 3: Infectious, medical, and obstetric morbidity identified per assessment stage for women living in Pakistan (n=3,287)

Assessment stage	First half of pregnancy	Second half of pregnancy	Within 24 hours of childbirth	Early postnatal	Late postnatal	Total
Number of women ^{a*}	607	768	654	618	640	3287
	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)
INFECTIOUS MORBIDITY						
Condition						
HIV	0	1 (0.1%)	7 (1.1%)	2 (0.3%)	1 (0.2%)	11 (0.3%)
Malaria	0	0	0	1 (0.2%)	0	1 (0.03%)
Syphilis	0	0	0	0	0	0
Positive screening for chest infection/ possible TB	7 (1.1%)	11 (1.4%)	2 (0.3%)	2 (0.3%)	3 (0.5%)	25 (0.8%)
Septic Inflammatory Response Syndrome (SIRS) ^b	67 (11.0%)	122 (15.9%)	54 (8.3%)	70 (11.3%)	55 (8.6%)	368 (11.2%)
MEDICAL OR OBSTETRIC MORBIDITY						
Condition						
Anaemia ^c	389 (64.1%)	590 (76.8%)	435 (66.5%)	437 (70.7%)	375 (58.6%)	2226 (67.7%)
Severe anaemia	9 (1.5%)	27 (3.5%)	18 (2.8%)	22 (3.6%)	5 (0.8%)	81 (2.5%)
Body mass index ≤18.5 kg/m ²	37 (6.2%)	16(2.2%)	7(1.1%)	11 (1.8%)	10 (1.6%)	81 (2.5%)
High BMI (> 30kg/m ²)	289 (48.5%)	470 (63.2%)	306 (48.6%)	325 (53.7%)	307 (49.8%)	1697 (53.2%)
Hypertension	18 (3.0%)	67 (8.7%)	54 (8.3%)	40 (6.5%)	27 (4.2%)	206 (6.3%)
Pre-eclampsia	n/a	26 (3.4%)	8 (1.2%)	6 (1.0%)	n/a	40 (2.0%)
Urine incontinence	40 (6.6%)	106 (13.8%)	64 (9.8%)	39 (6.3%)	65 (10.2%)	314 (9.5%)
Antenatal haemorrhage	80 (13.2%)	60 (7.8%)	n/a	n/a	n/a	140 (10.2%)
At least 1 medical or obstetric condition	422 (69.5%)	619 (80.6%)	455 (69.6%)	455 (73.6%)	388 (60.6%)	2339 (71.2%)

^a Where data were missing for a condition the condition was regarded as being absent for purposes of deriving morbidities

^b CRP was not measured at some primary level facilities in Malawi and Pakistan. Only participants for whom a CRP result was obtained are included in these statistics.

^c Anaemia is defined as Hb< 11.0g/dL and severe anaemia is defined as Hb<7g/dL

Supplementary Table 4: Infectious, medical, and obstetric morbidity identified per assessment stage for women living in Kenya (n=3,145)

Assessment stage	First half of pregnancy	Second half of pregnancy	Within 24 hours of childbirth	Early postnatal	Late postnatal	Total
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Number of women ^{a*}	592	684	592	620	657	3145
	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)
INFECTIOUS MORBIDITY						
Condition						
HIV	24 (4.0%)	19 (2.8%)	24 (4.0%)	25 (4.0%)	25 (3.8%)	117 (3.7%)
Malaria	2 (0.3%)	2 (0.3%)	1 (0.2%)	2 (0.3%)	0	7 (0.2%)
Syphilis	2 (0.3%)	2 (0.3%)	1 (0.2%)	0	3 (0.5%)	8 (0.2%)
Positive screening for chest infection/ possible TB	3 (0.5%)	6 (0.9%)	5 (0.8%)	3 (0.5%)	5 (0.8%)	22 (0.7%)
Septic Inflammatory Response Syndrome (SIRS) ^b	206 (34.8%)	267 (39.0%)	197 (33.3%)	278 (44.8%)	199 (30.3%)	1147 (36.5%)
MEDICAL OR OBSTETRIC MORBIDITY						
Condition						
Anaemia ^c	102 (17.2%)	163 (23.8%)	146 (24.7%)	204 (32.9%)	130 (19.8%)	745 (23.7%)
Severe anaemia	7 (1.2%)	4 (0.6%)	7 (1.2%)	12 (1.9%)	12 (1.8%)	65 (2.1%)
Body mass index ≤18.5 kg/m ²	18 (3.1%)	8 (1.2%)	10 (1.7%)	7 (1.2%)	3 (0.5%)	46 (1.5%)
High BMI (> 30kg/m ²)	278 (47.7%)	404 (59.8%)	328 (56.2%)	350 (57.6%)	325 (50.3%)	1685 (54.4%)
Hypertension	7 (1.2%)	19 (2.8%)	13 (2.2%)	16 (2.6%)	15 (2.3%)	70 (2.2%)
Pre-eclampsia	n/a	8 (1.2%)	0	4 (0.6%)	n/a	12 (0.6%)
Urine incontinence	12 (2.0%)	23 (3.4%)	2 (0.3%)	3 (0.5%)	9 (1.4%)	49 (1.6%)
Antenatal haemorrhage	54 (9.1%)	12 (1.7%)	n/a	n/a	n/a	66 (5.2%)
At least 1 medical or obstetric condition	142 (24.0%)	197 (28.8%)	156 (26.3%)	214 (34.5%)	143 (21.8%)	852 (27.1%)

^a Where data were missing for a condition the condition was regarded as being absent for purposes of deriving morbidities

^b CRP was not measured at some primary level facilities in Malawi and Pakistan. Only participants for whom a CRP result was obtained are included in these statistics.

^c Anaemia is defined as Hb < 11.0g/dL and severe anaemia is defined as Hb < 7g/dL

Supplementary Table 5: Infectious, medical, and obstetric morbidity identified per assessment stage for women living in Malawi (n=2923)

Assessment stage	First half of pregnancy	Second half of pregnancy	Within 24 hours of childbirth	Early postnatal	Late postnatal	Total
Number of women ^a	589	576	581	594	583	2923
	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)
INFECTIOUS MORBIDITY						
HIV	73 (12.4%)	85 (14.8%)	75 (12.9%)	95(16.0%)	90(15.4%)	418 (14.3%)
Malaria	83 (14.1%)	71 (12.3%)	58 (10.0%)	40 (6.7%)	47 (8.1%)	299 (10.2%)
Syphilis	34 (5.8%)	22 (3.8%)	18 (3.1%)	16 (2.7%)	9 (1.5%)	99 (3.4%)
Positive screening for chest infection/ possible TB	6 (1.0%)	6 (1.0%)	2 (0.3%)	5 (0.8%)	0	19 (0.7%)
Septic Inflammatory Response Syndrome (SIRS) ^b	164 (27.8%)	154 26.7(%)	174 (30.0%)	179 (30.1%)	168 (28.8%)	839 (28.7%)
MEDICAL OR OBSTETRIC MORBIDITY						
Anaemia ^c	225 (38.2%)	245 (42.5%)	233 (40.1%)	263 (44.3%)	215 (36.9%)	1181 (40.4%)
Severe anaemia	8 (1.4%)	3 (0.5%)	4 (0.7%)	12 (2.0%)	6 (1.0%)	33 (1.1%)
Body mass index ≤18.5 kg/m ²	18 (3.1%)	7 (1.2%)	19 (3.3%)	22 (3.7%)	22 (3.8%)	88 (3.0%)
High BMI (> 30kg/m ²)	164 (28.3%)	237 (41.6%)	169 (29.2%)	186 (31.5%)	208 (36.1%)	964 (33.3%)
Hypertension	6 (1.0%)	9 (1.6%)	8 (1.4%)	3 (0.5%)	5(0.9%)	31 (1.1%)
Pre-eclampsia	n/a	17 (2.9%)	10 (1.7%)	6 (1.0%)	n/a	49 (2.8%)
Urine incontinence	2 (0.3%)	11 (1.9%)	3 (0.5%)	0	2 (0.3%)	18 (0.6%)
Antenatal haemorrhage	5 (0.9%)	2 (0.4%)	n/a	n/a	n/a	7 (0.6%)
At least one medical or obstetric condition	232 (39.4%)	258 (44.8%)	239 (41.1%)	265 (44.6%)	220 (37.7%)	1214 (41.5%)

^a Where data were missing for a condition the condition was regarded as being absent for purposes of deriving morbidities

^b CRP was not measured at some primary level facilities in Malawi and Pakistan. Only participants for whom a CRP result was obtained are included in these statistics.

^c Anaemia is defined as Hb< 11.0g/dL and severe anaemia is defined as Hb<7g/dL

Supplementary Table 6: Psychological and social morbidity per assessment stage for women living in India (number of women assessed n=2099)

stage	First half of pregnancy	Second half of pregnancy	Within 24 hours of childbirth	Early postnatal	Late postnatal	Total	
Number of women*	416	397	423	432	431	2099	
	n %	n %	n %	n %	n %	n %	
PSYCHOLOGICAL MORBIDITY							
EDPS ≥ 10	45 (10.8%)	103 (25.9%)	86 (20.3%)	86 (19.9%)	84 (19.5%)	404 (19.2%)	
Thoughts of self-harm	40 (9.6%)	79 (19.9%)	72 (17.0%)	71 (16.4%)	66 (15.3%)	328 (15.6%)	
EDPS ≥ 10 and/or thoughts of self-harm	60 (14.4%)	116 (29.2%)	102 (24.1%)	99 (22.9%)	95 (22.0%)	472 (22.5%)	
SOCIAL MORBIDITY							
Domestic violence							
HITS score >4	Husband and/or family	159 (38.2%)	173 (43.6%)	153 (36.2%)	189 (43.7%)	159 (36.9%)	833 (39.7%)
	Husband	154 (37.0%)	164 (41.3%)	152 (35.9%)	185 (42.8%)	155 (36.0%)	810 (38.6%)
	Family	35 (8.4%)	67 (16.9%)	28 (6.6%)	52 (12.0%)	29 (6.7%)	211 (10.0%)
HITS score >10	Husband and/or family	23 (5.5%)	36 (9.1%)	18 (4.3%)	33 (7.6%)	17 (3.9%)	127 (6.0%)
	Husband	19 (4.6%)	27 (6.8%)	16 (3.8%)	30 (6.9%)	15 (3.5%)	107 (5.1%)
	Family	8 (1.9%)	22 (5.5%)	3 (0.7%)	15 (3.5%)	8 (1.9%)	56 (2.7%)
Substance misuse							
Use of alcohol, sedatives, inhalants, or tobacco in last 3 months	6 (1.4%)	9 (2.3%)	4 (0.9%)	12 (2.8%)	5 (1.2%)	36 (1.7%)	
Intervention required	4 (1.0%)	7 (1.8%)	0	5 (1.2%)	1 (0.2%)	17 (0.8%)	

ASSIST: Alcohol, Smoking and Substance Involvement Screening Test; EPDS: Edinburgh Postnatal Depression Scale; HITS: Hurt, Insulted, Threatened, Screamed at.

Supplementary Table 7: Psychological and social morbidity of women per assessment stage for women living in for all countries combined for Pakistan (number of women assessed n= 3287)

stage		First half of pregnancy	Second half of pregnancy	Within 24 hours of childbirth	Early postnatal	Late postnatal	Total
Number of women*		607	768	654	618	640	3287
		n %	n %	n %	n %	n %	n %
PSYCHOLOGICAL MORBIDITY							
EDPS ≥ 10		277 (45.6%)	349 (45.4%)	243 (37.2%)	256 (41.4%)	243 (38.0%)	1368 (41.6%)
Thoughts of self-harm		130 (21.4%)	242 (31.5%)	194 (29.7%)	200 (32.4%)	212 (33.1%)	978 (29.7%)
EDPS ≥ 10 and/or thoughts of self-harm		297 (48.9%)	379 (49.3%)	323 (49.4%)	308 (49.8%)	315 (49.2%)	1622 (49.3%)
SOCIAL MORBIDITY							
Domestic violence							
HITS score >4	Husband and/or family	308 (50.7%)	464 (60.4%)	371 (56.7%)	382 (61.8%)	314 (49.1%)	1839 (55.9%)
	Husband	183 (30.1%)	340 (44.3%)	255 (39.0%)	255 (41.3%)	195 (30.5%)	1228 (37.4%)
	Family	197 (32.4%)	246 (32.0%)	217 (33.2%)	199 (32.2%)	184 (28.7%)	1043 (31.7%)
HITS score >10	Husband and/or family	109 (18.0%)	185 (24.1%)	103 (15.7%)	115 (18.6%)	104 (16.2%)	616 (18.7%)
	Husband	64 (10.5%)	150 (19.5%)	59 (9.0%)	70 (11.3%)	68 (10.6%)	411 (12.5%)
	Family	50 (8.2%)	47 (6.1%)	55 (8.4%)	47 (7.6%)	47 (7.3%)	246 (7.5%)
Substance misuse							
Use of alcohol, sedatives, inhalants, or tobacco in last 3 months		61 (10.0%)	53 (6.9%)	45 (6.9%)	74 (12.0%)	60 (9.4%)	293 (8.9%)
Intervention required		7 (1.1%)	13 (1.7%)	5 (0.8%)	12 (1.9%)	20 (3.1%)	57 (1.7%)

ASSIST: Alcohol, Smoking and Substance Involvement Screening Test; EPDS: Edinburgh Postnatal Depression Scale; HITS: Hurt, Insulted, Threatened, Screamed at.

Supplementary Table 8: Psychological and social morbidity per assessment stage for women living in Kenya (n=3145)

Assessment stage	First half of pregnancy	Second half of pregnancy	Within 24 hours of childbirth	Early postnatal	Late postnatal	Total	
Number of women*	592	684	592	620	657	3145	
	n %	n %	n %	n %	n %	n %	
PSYCHOLOGICAL MORBIDITY							
EDPS ≥ 10	86 (14.5%)	101 (14.8%)	81 (13.7%)	72 (11.6%)	49 (7.5%)	389 (12.4%)	
Thoughts of self-harm	28 (4.7%)	47 (6.9%)	29 (4.9%)	20 (3.2%)	19 (2.9%)	143 (4.5%)	
EDPS ≥ 10 and/or thoughts of self-harm	94 (15.9%)	126 (18.4%)	95 (16.0%)	84 (13.5%)	60 (9.1%)	459 (14.6%)	
SOCIAL MORBIDITY							
Domestic violence							
HITS score >4	Husband and/or family	99 (16.7%)	201 (29.4%)	130 (22.0%)	105 (17.0%)	144 (21.9%)	679 (21.6%)
	Husband	78 (13.2%)	176 (25.7%)	108 (18.2%)	88 (14.2%)	125 (19.0%)	575 (18.3%)
	Family	29 (4.9%)	51 (7.5%)	35 (5.9%)	24 (3.9%)	47 (7.1%)	186 (5.9%)
HITS score >10	Husband and/or family	9 (1.5%)	26 (3.8%)	22 (3.7%)	12 (1.9%)	17 (2.6%)	86 (2.7%)
	Husband	8 (1.3%)	24 (3.5%)	18 (3.0%)	10 (1.6%)	15 (2.3%)	75 (2.4%)
	Family	2 (0.3%)	2 (0.3%)	6 (1.0%)	2 (0.3%)	2 (0.3%)	14 (0.4%)
Substance misuse							
Use of alcohol, sedatives, inhalants, or tobacco in last 3 months	40 (6.8%)	27 (3.9%)	42 (7.1%)	37 (6.0%)	63 (9.6%)	209 (6.6%)	
Intervention required	9 (1.5%)	6 (0.9%)	9 (1.5%)	8 (1.3%)	14 (2.1%)	46 (1.5%)	

ASSIST: Alcohol, Smoking and Substance Involvement Screening Test; EPDS: Edinburgh Postnatal Depression Scale; HITS: Hurt, Insulted, Threatened, Screamed at.

Supplementary Table 9: Psychological and social morbidity per assessment stage for women living in Malawi (number of women assessed n= 2923)

Assessment stage	First half of pregnancy	Second half of pregnancy	Within 24 hours of childbirth	Early postnatal	Late postnatal	Total	
Number of women*	589	576	581	594	583	2923	
	n %	n %	n %	n %	n %	n %	
PSYCHOLOGICAL MORBIDITY							
EDPS ≥ 10	86 (14.6%)	88 (15.3%)	101 (17.4%)	89 (15.0%)	93 (15.9%)	457 (15.6%)	
Thoughts of self-harm	48 (8.2%)	58 (10.1%)	64 (11.0%)	60 (10.1%)	65 (11.1%)	295 (10.1%)	
EDPS ≥ 10 and/or thoughts of self-harm	91 (15.4%)	100 (17.4%)	110 (18.9%)	100 (16.8%)	105 (18.0%)	506 (17.3%)	
SOCIAL MORBIDITY							
Domestic violence							
HITS score >4	Husband and/or family	91 (15.4%)	140 (24.3%)	102 (17.6%)	94 (15.8%)	105 (18.0%)	532 (18.2%)
	Husband	60 (10.2%)	96 (16.7%)	82 (14.1%)	74 (12.5%)	85 (14.6%)	397 (13.6%)
	Family	67 (11.4%)	80 (13.9%)	78 (13.4%)	66 (11.1%)	74 (12.7%)	365 (12.5%)
HITS score >10	Husband and/or family	20 (3.4%)	29 (5.0%)	29 (5.0%)	27 (4.5%)	32 (5.5%)	137 (4.7%)
	Husband	10 (1.7%)	22 (3.8%)	16 (2.7%)	17 (2.9%)	23 (3.9%)	88 (3.0%)
	Family	14 (2.4%)	9 (1.6%)	21 (3.6%)	15 (2.5%)	16 (2.7%)	75 (2.6%)
Substance misuse							
Use of alcohol, sedatives, inhalants, or tobacco in last 3 months	28 (4.7%)	23 (4.0%)	31 (5.3%)	23 (3.9%)	29 (5.0%)	134 (4.6%)	
Intervention required	18 (3.1%)	12 (2.1%)	20 (3.4%)	17 (2.9%)	15 (2.6%)	82 (2.8%)	

ASSIST: Alcohol, Smoking and Substance Involvement Screening Test; EPDS: Edinburgh Postnatal Depression Scale; HITS: Hurt, Insulted, Threatened, Screamed at.