Supplementary Tables

Table S1: PCMC questions

Now I am going to ask some questions about your interactions with						
It is understood that in clinical work, there are many demands and constraints that providers face that affect our						
interactions with patients.						
Thinking of your interactions with your patients in the last month						
1. Do you introduce yourself to patients when you first see	0, 0 No, never					
them?	1, 1 Yes, a few times					
(If they just say yes, ask will you say this was a few times,	2, 2 Yes, most of the time					
most of the time, or all the time)	3, 3 Yes, always					
	0, 0 No, never					
2. Do you call patients by their name when talking to them?	1, 1 Yes, a few times					
For example: asked a patient, how are you Monica? Not	2, 2 Yes, most of the time					
when you have their folder and calling them to be seen	3, 3 Yes, always					
	0, 0 No, never					
	1, 1 Yes, a few times					
3. Do you explain to patients the purpose of examinations or	2, 2 Yes, most of the time					
procedures before proceeding?	3, 3 Yes, always					
	0, 0 No, never					
	1, 1 Yes, a few times					
4. Do you explain to patients why they are being given some	2, 2 Yes, most of the time					
medication?	3, 3 Yes, always					
	0, 0 No, never					
	1, 1 Yes, a few times					
	2, 2 Yes, most of the time					
5. Do you ask patients if they have any questions?	3, 3 Yes, always					
	0, 0 No, never					
	1, 1 Yes, a few times					
6. Do you allow women to have a birth companion of their	2, 2 Yes, most of the time					
choice?	3, 3 Yes, always					
	0, 0 No, never					
	1, 1 Yes, a few times					
7. Do you allow women to give birth in which ever delivery	2, 2 Yes, most of the time					
position they prefer?	3, 3 Yes, always					
8. Other providers have stated that sometimes women						
behave in a way that make them react strongly to the						
situation. Sometimes this is spontaneous. Other times we						
	0, 0 No, never					
think we need to do something to save or protect the baby	1, 1 Yes, a few times					
In the last month, have you shouted at socied						
In the last month, have you shouted at, scolded, or	2, 2 Yes, most of the time					
threatened a woman for any reason?	3, 3 Yes, always 0, 0 No, never					
O In the last month, have you singled hit on above:11	1, 1 Yes, a few times					
9. In the last month, have you pinched, hit, or physically	2, 2 Yes, most of the time					
restrained a woman for any reason?	3, 3 Yes, always					

Characteristics	Category	Country	-	р
		Kenya (N=25)	Ghana (N=18)	-
Facility type	Govt. Hospital	10 (40.0)	8 (44.4)	0.69
• • •	Govt. Health Center	11 (44.0)	9 (50.0)	
	Mission/Private Hospital	4 (16.0)	1 (5.6)	
Doctors/clinical officers available to work in the maternity unit	Median (range)	0 (0,3)	0(0,4)	0.18
Nurses or midwives available to work in the maternity unit	Median (range)	7 (1,15)	9 (3,34)	0.064
Auxiliary staff working on the maternity ward	Median (range)	2 (1,5)	1.5 (0,21)	0.27
Clinical providers (i.e., doctors, clinical officers, nurses/midwives) on duty during the day	Median (range)	2 (1,5)	3.5 (1,18)	<0.001
Clinical providers on duty at night	Median (range)	1 (0,3)	3 (1,5)	0.0050
Total deliveries for the last year	Median (range)	441 (105,4800)	398 (68,3379)	0.69
Are cesarian sections performed in	No, never	21 (84.0)	10 (33.6)	0.23
this facility	Yes, sometimes	1(4.0)	$2(11\cdot1)$	
-	Yes, most of the time	1(4.0)	$2(11 \cdot 1)$	
	Yes, always	2 (8.0)	4 (22·2)	
Facility has magnesium sulphate	No, never	0 (0.0)	1 (5.6)	0.22
	Yes, sometimes	3 (12.0)	4 (22.2)	
	Yes, most of the time	12 (48.0)	4 (22.2)	
	Yes, always	10 (40.0)	9 (50.0)	
Facility has Intravenous fluids	No, never	0 (0.0)	0 (0.0)	0.17
-	Yes, sometimes	5 (20.0)	0(0.0)	

Table S2: Health facility level characteristics of the study population in each country

Yes, always	8 (32.0)	9 (50.0)	
Median (range)	528 (66,12787)	6676 (1204,31532)	<0.001
Median (range)	281 (48-1117)	419 (98,1913)	0.030
Median (range)	588 (112,4800)	367 (68,5672)	1.0
Median (range)	441 (105,4800)	398 (68,3379)	0.69
Median (range)	2 (0,91)	1 (0,50)	0.67
Median (range)	2 (0,84)	0 (0,69)	0.013
Median (range)	15 (0,114)	2 (0,524)	0.95
Median (range)	2 (0,14)	0(0,104)	0.88
Median (range)	0 (0,14)	0 (0,8)	0.044
Median (range)	41 (0-200)	54 (8,1292)	0.19
	Median (range)	Median (range) 528 (66,12787) Median (range) 281 (48-1117) Median (range) 588 (112,4800) Median (range) 441 (105,4800) Median (range) 2 (0,91) Median (range) 2 (0,84) Median (range) 15 (0,114) Median (range) 2 (0,14) Median (range) 0 (0,14)	Median (range) 528 (66,12787) 6676 (1204,31532) Median (range) 281 (48-1117) 419 (98,1913) Median (range) 588 (112,4800) 367 (68,5672) Median (range) 441 (105,4800) 398 (68,3379) Median (range) 2 (0,91) 1 (0,50) Median (range) 2 (0,84) 0 (0,69) Median (range) 15 (0,114) 2 (0,524) Median (range) 2 (0,14) 0(0,104) Median (range) 0 (0,14) 0 (0,8)

Table S3: Distribution of PCMC items by country

Characteristic	Category	Country		
		Kenya	Ghana	
Do you introduce yourself to patients	No, never	21 (25.0)	15 (10.0)	
when you first see them?	Yes, a few times	32 (38·1)	48 (32.0)	
	Yes, most of the time	23 (27.4)	55 (36.7)	
	Yes, always	8 (9.5)	32 (21.3)	
Do you call patients by their name	No, never	3 (3.5)	2 (1.3)	
when talking to them?	Yes, a few times	32 (37.2)	31 (20.8)	
-	Yes, most of the time	35 (40.7)	66 (44.3)	
	Yes, always	16 (18.6)	50 (33.6)	
Do you explain to patients the purpose	No, never	3 (3.5)	0 (0.0)	
of examinations or procedures?	Yes, a few times	17 (20.0)	7 (4.7)	
•	Yes, most of the time	42 (49.4)	69 (46.0)	
	Yes, always	23 (27·1)	74 (49.3)	
Do you explain to patients why they	No, never	4 (4.7)	3 (2.0)	
are being given some medication?	Yes, a few times	23 (27.1)	19 (12.7)	
	Yes, most of the time	35 (41.2)	45 (30.0)	
	Yes, always	23 (27·1)	83 (55-3)	
Do you ask patients if they have any	No, never	18 (21-2)	1 (0.7)	
questions?	Yes, a few times	26 (30.6)	39 (26.0)	
•	Yes, most of the time	27 (31.8)	50 (33.3)	
	Yes, always	14 (16.4)	60 (40.0)	
Do you allow women to have a birth	No, never	4 (4.7)	3 (2.0)	
companion of their choice?	Yes, a few times	7 (8.2)	11 (7.4)	
•	Yes, most of the time	23 (27·1)	30 (20·1)	
	Yes, always	51 (60.03)	105 (70.5)	
Do you allow women to give birth in	No, never	33 (38.4)	46 (31·1)	
which ever delivery position they	Yes, a few times	26 (30.2)	41 (27.7)	
prefer?	Yes, most of the time	19 (22·1)	30 (20.3)	
	Yes, always	8 (9.3)	31 (20.9)	
In the last month, have you shouted	No, never	28 (32.9)	58 (38.7)	
at, scolded, or threatened a woman for	Yes, a few times	36 (42.4)	89 (59.3)	
any reason?	Yes, most of the time	20 (23.5)	3 (2.0)	
	Yes, always	1 (1.2)	0 (0.0)	
In the last month, have you pinched,	No, never	59 (68.6)	137 (91.3)	
hit, or physically restrained a woman	Yes, a few times	26 (30.2)	13 (8.7)	
-	Yes, most of the time	1 (1.2)	0 (0.0)	
	Yes, always	0 (0.0)	0 (0.0)	

Table S4: Bivariate analysis of PCMC score at different health facility level characteristics

Characteristics	Category	PCMC score	PCMC score	
	•	N	Median (range)	p
Facility type	Govt. Hospital	16	57.1 (35.71,82.14)	0.24
J J1	Govt. Health Center/Disp	22	60.7 (46.43,96.43)	
	Mission/Private Hospital	5	57.1 (48.21,78.57)	
Doctors available to work in the mater	Rho=0·04	0.77		
Nurses or midwives are available to w	Rho=-0·16	0.30		
Clinical providers available to work in	Rho=-0·42	0.0050		
Auxiliary staff work on the maternity			Rho=-0.06	0.71
clinical providers (I.e., doctors, Cos, n		ı at day	Rho=0·40	0.0080
clinical providers (I.e., doctors, Cos, n			Rho=0·07	0.67
Fotal deliveries for the last year	urses/illidwives) are on duty	at mgm	Rho=-0·15	0.35
·	. N	21		
Are cesarian sections performed in this		31	60.7 (35.71,96.43)	0.30
facility	Yes, sometimes	3	64.3 (39.29,67.86)	
	Yes, most of the time	3	50.0 (48.21,57.14)	
	Yes, always	6	67.9 (53.57,78.57)	
Facility has magnesium sulphate	No, never	1	60.7 (60.71,60.71)	0.41
	Yes, sometimes	7	76.3 (35.71,96.43)	
	Yes, most of the time	16	55.4 (39.29,82.14)	
	Yes, always	19	67.9 (45.92,92.86)	
Facility has Intravenous fluids	No, never	0		0.048
	Yes, sometimes	4	48.2 (35.71,64.29)	
	Yes, most of the time	15	57.1 (39.29,96.43)	
	Yes, always	24	67.9 (42.86,92.86)	
Facility has blood for transfusion	No, never	22	60.7 (42.86,96.43)	0.71
	Yes, sometimes	9	53.6 (35.71,92.86)	
	Yes, most of the time	5	57.1 (39.29,67.86)	
	Yes, always	7	67.9 (39.29,78.57)	
Facility has antibiotics	No, never	0	0, 5 (65 25,10 61)	0.83
definity has underodes	Yes, sometimes	7	64.3 (35.71,92.86)	0 05
	Yes, most of the time	16	60.5 (39.29,96.43)	
	Yes, always	19	67.9 (42.86,92.86)	
Facility has uterotonics	No, never	3	60.3 (42.86,60.71)	0.63
racinty has defotonics	Yes, sometimes	3	64.3 (50.00,67.86)	0.03
	Yes, most of the time	16	57.1 (39.29,96.43)	
		20		
A 1' C 1 1' 1 . 1'	Yes, always		67.9 (35.71-92.86)	0.11
Are supplies for conducting deliveries	No, never	2	55.4 (46.43,64.29)	0.11
such as gloves and cotton wool	Yes, sometimes	8	51.8 (35.71,67.86)	
consistent	Yes, most of the time	16	66.1 (39.29,96.43)	
	Yes, always	17	67.9 (42.86,82.14)	
Have consistent electricity	No, never	1	42.9 (42.86,42.86)	0.22
	Yes, sometimes	8	51.8 (35.71,92.86)	
	Yes, most of the time	18	66.1 (39.29,96.43)	
	Yes, always	16	64.3 (48.21,92.86)	
Have consistent running water from a	No, never	6	48.2 (35.71,92.86)	0.23
ap	Yes, sometimes	10	60.5 (46.43,76.34)	
	Yes, most of the time	10	53.6 (39.29,96.43)	
	Yes, always	17	67.9 (45.92,92.86)	
Target population	•		Rho=0·10	0.51
Number of women who attended ANC	at least 4 times		Rho=0·10	0.51
Total number of admissions			Rho=-0·09	0.56
Number of fresh stillbirths			Rho=-0·14	0.36
Number of macerated stillbirths			Rho=-0·14	0.29
				0.29
Number of preterm babies			Rho=-0·23	
Number of neonatal deaths			Rho=-0·226	0.16
Total number of maternal deaths			Rho=-0.08	0.60
Number of referrals			Rho=-0.003	0.98

Table S5: Structural equation model for mediation by Burnout levels on PCMC score

Characteristic	Category	Total effect	Direct effect	Indirect effect
Burnout level		-0.33 (-0.48,-0.18)	-0.33 (-0.48,-	
			0.18)	
Perceived stress		-0.57 (-0.87,-0.26)	-0.24 (-	-0.33 (-0.50,-0.16)
			0.56, 0.09	
Age		0.26 (0.02,0.49)	0.26 (0.02,0.49)	
Religion	Catholic			
-	Seventh Day Adventist	-6.60 (-12.39,-0.80)	-6.60 (-12.39,-	
			0.80)	
	Methodist/Presby/Anglican	-0.95 (-5.03,3.13)	-0.95 (-	
			5.03,3.13)	
Health facility	Govt. Hospital			
type	Govt. Health Center/Disp	7-47 (3-45,11-49)	7-47 (3-45,11-49)	
	Mission/Private Hospital	5.30 (0.72,9.88)	5.30 (0.72,9.88)	
Training on	No			
how to help you	Yes	4.15 (-0.16,8.45)	4.15 (-0.16,8.45)	
deal with stress				
Number of provio	ders during day	0.43 (0.01,0.84)	0.43 (0.01,0.84)	
Country	Kenya			
	Ghana	4.58 (-0.72,9.88)	4.58 (-0.72,9.88)	
Overall R-		0.41	,	
squared				

Supplemental Figure 1: Screen Plot from Factor Analysis of 9 PCMC Items

