Additional file 1

Supplementary appendix to: Universally inadequate antenatal coverage and the paradox of facility-based delivery in conflict-affected Gaza: a cross-sectional study.

Table S1. Access to essential antenatal care

Variable	Category	n	N	%	95% CI
Antenatal visits					
	Complete access	18	95	18.95	12.33-27.97
	Partial access	33	95	34.74	25.92-44.74
	Limited access	11	95	11.58	6.59-19.55
	No access: services unavailable	6	95	6.32	2.93-13.10
	No access: security reasons	27	95	28.42	20.33-38.19
Essential supplement intake					
	Regularly	22	95	23.16	15.82-32.58
	Irregularly	32	95	33.68	24.98-43.66
	Not taken: supplements unavailable	40	95	42.11	32.67-52.15
	Not taken: lack of awareness	1	95	1.05	0.19-5.72
Blood tests					
	Performed regularly	15	94	15.96	9.92-24.67
	Performed irregularly	46	94	48.94	39.07-58.88
	Not performed: services not accessible	30	94	31.91	23.36-41.89
	Not performed: services unavailable	3	94	3.19	1.09-8.97
Ultrasounds					
	Regularly	18	94	19.15	12.47-28.25
	Only once or twice	53	94	56.38	46.30-65.96
	Not performed: services not accessible	20	94	21.28	14.22-30.59
	Not performed: services unavailable	3	94	3.19	1.09-8.97

Access to emergency care					
	Yes	38	95	40.00	30.72-50.05
	No	35	95	36.84	27.83-46.88
	Not needed	22	95	23.16	15.82-32.58
Vaccinations					
	Performed	40	90	44.44	34.62-54.73
	Not performed: no access	16	90	17.78	11.25-26.94
	Not performed: not informed	34	90	37.78	28.46-48.10

95% CI calculated using the Wilson score method. Denominators (N) reflect variable-specific evaluable sample after exclusion of missing responses.

Table S2. Maternal health during pregnancy

Variable	Category	n	N	%	95% CI
Signs of malnutrition					
	Always	4	95	4.21	1.65-10.33
	Frequently	28	95	29.47	21.25-39.29
	Sometimes	41	95	43.16	33.66-53.19
	Never	22	95	23.16	15.82-32.58
Balanced diet					
	Mostly yes	4	95	4.21	1.65-10.33
	No: food shortage	51	95	53.68	43.71-63.37
	No: financial constraints	38	95	40.00	30.72-50.05
	No: other reasons	2	95	2.11	0.58-7.35
Pregnancy complications (multiple response)*					
	None	14	95	14.74	8.99-23.23
	Anaemia	56	95	58.95	48.90-68.30
	Infection	48	95	50.53	40.65-60.36
	Fetal growth restriction	25	95	26.32	18.51-35.97
	Preeclampsia	3	95	3.16	1.08-8.88
	Gestational hypertension	16	95	16.84	10.64-25.62
	Gestational diabetes	8	95	8.42	4.33-15.75
	First-trimester bleeding	3	95	3.16	1.08-8.88
	Third-trimester bleeding	4	95	4.21	1.65-10.33
	Other	3	95	3.16	1.08-8.88

** multiple-response variable: individual-category proportions represent prevalences and may sum to more than 100%.*

Table S3. Delivery and immediate postpartum period

Variable	Category	n	N	%	95% CI

Place of delivery					
	Hospital	82	94	87.23	79.00-92.54
	Home or tent with midwife	10	94	10.64	5.88-18.49
	Home or tent without assistance	0	94	0.00	0.00-3.93
	Other	2	94	2.13	0.59-7.43
Birth attendance					
	Doctor	64	94	68.09	58.11-76.64
	Midwife	29	94	30.85	22.42-40.79
	No qualified attendance	1	94	1.06	0.19-5.78
Type of delivery					
	Vaginal	70	93	75.27	65.62-82.92
	C-section	19	93	20.43	13.49-29.72
	Emergency C-section	2	93	2.15	0.59-7.51
	Other	2	93	2.15	0.59-7.51
Postpartum complications (multiple response)*					
	None	54	94	57.45	47.35-66.96
	Fever	8	94	8.51	4.38-15.90
	Infection	3	94	3.19	1.09-8.97
	Postpartum haemorrhage	29	94	30.85	22.42-40.79
	Baby blues	10	94	10.64	5.88-18.49
	Postpartum depression	2	94	2.13	0.59-7.43
	Other	2	94	2.13	0.59-7.43
Pregnancy outcome					
	Abortion	2	94	2.13	0.59-7.43
	Healthy baby	75	94	79.79	70.57-86.66
	Preterm survived	1	94	1.06	0.19-5.78
	Preterm died	2	94	2.13	0.59-7.43
	Sick baby survived	5	94	5.32	2.29-11.85
	Stillbirth	5	94	5.32	2.29-11.85
	Dysmorphic baby	4	94	4.26	1.67-10.44
Postnatal care within 48h					
	Yes	58	94	61.70	51.60-70.89
	No: logistic or security difficulties	8	94	8.51	4.38-15.90
	No: medical staff unavailable	28	94	29.79	21.48-39.68

** multiple-response variable: individual-category proportions represent prevalences and may sum to more than 100%.*

Table S4. Newborn and infant health

Variable	Category	n	N	%	95% CI
Newborn health status at one month					
	Healthy	73	94	77.66	68.25-84.90
	Sick	12	94	12.77	7.46-21.00
	Deceased	9	94	9.57	5.12-17.20
Breastfeeding					
	Immediate	54	94	57.45	47.35-66.96
	Delayed	24	94	25.53	17.80-35.19
	No: lack of support	5	94	5.32	2.29-11.85
	No: other reasons (perinatal loss, NICU admission)	11	94	11.70	6.66-19.75
Formula milk when needed					
	Immediate	3	94	3.19	1.09-8.97
	Delayed	21	94	22.34	15.10-31.75
	No: not available	20	94	21.28	14.22-30.59
	No: financial reasons	26	94	27.66	19.63-37.44
	Not needed	24	94	25.53	17.80-35.19
Newborn evaluation within 24h					
	Yes	59	93	63.44	53.30-72.51
	No: staff unavailable	14	93	15.05	9.18-23.70
	No: logistic or security difficulties	15	93	16.13	10.03-24.92
	Other	5	93	5.38	2.32-11.97
Newborn malnutrition					
	Severe	23	93	24.73	17.08-34.38
	Moderate	40	93	43.01	33.42-53.15
	Absent	30	93	32.26	23.62-42.30
Newborn diseases (multiple response)*					
	None	38	92	41.30	31.79-51.52
	Prematurity	14	92	15.22	9.29-23.94
	Respiratory diseases	11	92	11.96	6.81-20.15
	Jaundice	31	92	33.70	24.86-43.83
	Infection	6	92	6.52	3.02-13.51
	NEC	4	92	4.35	1.70-10.65
	Other	10	92	10.87	6.01-18.86
Access to newborn care					
	Yes: hospital provided care	26	93	27.96	19.85-37.81
	Yes: but with difficulty	24	93	25.81	18.00-35.53
	No: care unavailable	20	93	21.51	14.38-30.90
	Not needed	23	93	24.73	17.08-34.38

Dehydration					
	Severe	4	92	4.35	1.70-10.65
	Moderate	14	92	15.22	9.29-23.94
	Absent	74	92	80.43	71.18-87.25
Skin infection					
	Severe	30	93	32.26	23.62-42.30
	Mild irritation	37	93	39.78	30.43-49.95
	Absent	25	93	26.88	18.92-36.68
Respiratory infection					
	Yes	38	90	42.22	32.54-52.54
	No	52	90	57.78	47.46-67.46
Fever					
	Yes: with access to care	28	91	30.77	22.23-40.87
	Yes: without access to care	8	91	8.79	4.52-16.40
	No	55	91	60.44	50.17-69.87
Access to medications when needed					
	Complete access	6	91	6.59	3.06-13.65
	Limited access	46	91	50.55	40.46-60.59
	No: medications unavailable	9	91	9.89	5.29-17.74
	No: financial reasons	20	91	21.98	14.70-31.52
	Not needed	10	91	10.99	6.08-19.06

** multiple-response variable: individual-category proportions represent prevalences and may sum to more than 100%. NEC, necrotising enterocolitis.*

Table S5. Environmental and living conditions

Variable	Category	n	N	%	95% CI
Access to clean water					
	Regularly	6	93	6.45	2.99-13.37
	With difficulty	50	93	53.76	43.68-63.55
	Not available	37	93	39.78	30.43-49.95
Exposure to unhygienic conditions					
	No	13	91	14.29	8.54-22.92
	Moderately	32	91	35.16	26.14-45.39
	Severely	46	91	50.55	40.46-60.59
Exposure to extreme weather					
	No	12	91	13.19	7.71-21.65
	Moderately	35	91	38.46	29.13-48.73
	Severely	44	91	48.35	38.36-58.48
Direct physical trauma exposure (bombings, debris, injuries)					
	No	69	91	75.82	66.10-83.46
	Minor injuries	15	91	16.48	10.25-25.43
	Severe injuries	7	91	7.69	3.78-15.04

95% CI calculated using the Wilson score method.

Table S6. Sensitivity analysis: comparison of key estimates in the full analytical sample and after exclusion of duplicate device submissions.

Estimate	Full analytical sample (n = 95)	Duplicate-excluded sample (n = 85)
Inadequate access to essential antenatal care (primary outcome)	100.00% (88/88)	100.00% (all evaluable women)
Neonatal mortality at 30 days	9.57% (9/94; 95% CI 5.12–17.20)	10.71% (9/84; 95% CI 5.74–19.12)

Duplicate device submissions were collapsed by submitter identifier, self-reported age, and number of previous children (10 records removed). Computed from the de-identified dataset. The primary-outcome saturation and the 30-day neonatal mortality estimate were not materially altered. 95% CI calculated using the Wilson score method.

Maternal questionnaire (English version, reconstructed from the administered instrument and the recorded response categories). The Arabic field version is available from the corresponding author on request.

Section 1. Demographic information

1. Nationality: *free text*

2. Age: *years*

3. First pregnancy: *Yes / No*

4. Number of previous children: *number*

5. Single or multiple pregnancy: *Single / Multiple*

Section 2. Prenatal care and nutrition

6. Antenatal visits/check-ups: *Always; Sometimes; Rarely; No, lack of access; No, security concerns*

7. Intake of essential supplements: *Consistently; Irregularly; Not taken (no access); Not taken (lack of awareness)*

8. Blood tests: *Regularly; Irregularly; Not performed (unavailable); Not performed (no access)*

9. Ultrasound scans: *Regularly; Only once or twice; Not performed (no access); Unavailable*

10. Access to emergency care when needed: *Yes; No; Not needed*

11. Signs of maternal malnutrition: *Always; Often; Sometimes; Never*

12. Balanced diet: *Yes, mostly; No (food shortage); No (financial constraints); No (other reasons)*

13. Vaccination during pregnancy: *Yes, all recommended; Only Tdap; No access; Not informed*

Section 3. Pregnancy and delivery

14. Complications during pregnancy (select all that apply): *None; Anaemia; Infection; Fetal growth restriction; Gestational hypertension; Gestational diabetes; Pre-eclampsia; Haemorrhage*

15. Place of birth: *Hospital; Home with a midwife; Home without assistance; Other*

16. Birth attendance: *Doctor; Midwife; No qualified attendance*

17. Type of delivery: *Vaginal; Caesarean section; Emergency caesarean section; Other*

18. Postpartum complications (select all that apply): *None; Postpartum haemorrhage; Fever; Infection; Baby blues; Postpartum depression; Other*

19. Pregnancy outcome: *Healthy baby; Sick term infant (survived); Preterm (survived); Preterm (died); Dysmorphic infant; Stillbirth; Abortion*

Section 4. Postnatal and neonatal care

20. Postnatal contact within 48 h: *Yes; No (could not access); No (no care available)*

21. Newborn health status at one month: *Healthy; Ill; Deceased*

22. Breastfeeding: *Immediately; After some time; No (lack of support); No (other reasons)*

23. Formula milk when needed: *Yes, immediately; Yes but not immediately; No (not available); No (could not afford); Not needed*

24. Newborn evaluation within 24 h: *Yes; No (no doctor available); No (could not access services); Other*

25. Newborn malnutrition: *No; Moderate; Severe*

26. Newborn illness (select all that apply): *None; Jaundice; Respiratory conditions; Infection; Necrotising enterocolitis; Heart condition; Preterm birth; Other*

27. Access to neonatal care when needed: *Yes (hospital provided assistance); Yes but with difficulty; No (care not available); Not needed*

28. Dehydration: *No; Moderate; Severe*

29. Skin infection: *No; Mild irritation; Severe infection*

30. Respiratory infection: *Yes / No*

31. Fever: *No; Yes (with access to care); Yes (without access to care)*

32. Access to medications when needed: *Yes; Difficult; Not available; Could not afford; Not needed*

Section 5. Conflict and environmental exposure

33. Access to clean water: *Regularly; With difficulty; Not available*

34. Exposure to unhygienic conditions: *No; Moderate; Severe*

35. Exposure to extreme weather: *No; Moderate; Severe*

36. Direct physical trauma (bombing or debris): *No; Minor injuries; Severe injuries*