

BIRTH IN BRAZIL - NATIONAL SURVEY INTO LABOUR AND BIRH

Information from woman and newborn`s medical record book

Part	Nº	Questions	Alternatives
Part 1		GENERAL DATA	
1	1	Date of data collection from medical record	Date format
1	2	Time of data collection from medical record	Time format
1	3	Name of pregnant/ post-partum woman	String format
1	4	Woman`s number in medical record	Number format
1	5	Type of Pregnancy	1. Single 2. Twins (two) 3. Twins (three) 4. Twins (four)
1	6	Outcome newborn 1	1. Live 2. Stillbirth 3. Neonatal Death
1	7	Outcome newborn 2	1. Live 2. Stillbirth 3. Neonatal Death
1	8	Outcome newborn 3	1. Live 2. Stillbirth 3. Neonatal Death
1	9	Outcome newborn 4	1. Live 2. Stillbirth 3. Neonatal Death
Part 2		INFORMATION ON ADMISSION	
2	10	Date of admission	Date format
2	11	Time of admission	Time format
2	12	Sector where pregnant woman was sent at the time of admission	1. Ward / room 2.Labour ward 3. PPP 4. Delivery room 5. Obstetric Surgical Center 6. ICU 9. No Information
2	13	Destination from hospital where the woman gave birth	1. Discharged home/community from hospital 2. Transferred in the postpartum period (go to question 15) 3. Left hospital without medical authorization 4. Death 5. Remained hospitalized after 42 days of birth (go to 17)
2	14	Date of discharge from hospital	Date format
2	15	Hospital where woman was transferred after birth (hospital name - city - state)	String format
2	15.1	Reason for being transferred to another hospital	String format
2	15.2	Destination from hospital where women was transferred to	1. Discharged home/community from hospital 2. Left hospital without medical authorization 3. Death 4. Remained hospitalized after 42 days of birth (go to 17)
2	15.3	Date of discharge from hospital where woman was transferred to	Date format
2	16	Death Certificate registry number	Number format
Part 3		CLINICAL-OBSTETRIC HISTORY	

3	17	Number of previous pregnancies	Number format (If the first pregnancy, complete with 00 and go to question 21)
3	18	Number of previous miscarriages	Number format
3	19	Total number of previous deliveries	Number format (if 00, go to question 21)
3	20	How many deliveries by caesarean section?	Number format
3	21	Personal medical history	-
3	22	Heart disease	0. No 1. Yes
3	23	High blood pressure with continued treatment	0. No 1. Yes
3	24	Severe anemia or other hemoglobinopathy	0. No 1. Yes
3	25	Asthma	0. No 1. Yes
3	26	Lupus or scleroderma	0. No 1. Yes
3	27	Hyperthyroidism	0. No 1. Yes
3	28	Diabetes (non gestacional)	0. No 1. Yes
3	29	Chronic kidney disease	0. No 1. Yes
3	30	Seizures / epilepsy	0. No 1. Yes
3	31	Cerebral Vascular Accident (Stroke)	0. No 1. Yes
3	32	Chronic liver disease	0. No 1. Yes
3	33	Psychiatric illness	0. No 1. Yes
3	34	Other	0. No (go to 36) 1. Yes
3	35	Specify others	String format
3	36	Obstetric or medical complications in the current pregnancy (before hospital admission)	-
3	37	Cervical incompetence (CI)?	0. No 1. Yes
3	38	Intra Uterine Growth Restriction (IUGR)?	0. No 1. Yes
3	39	Oligohydramnios?	0. No 1. Yes
3	40	Polyhydramnios?	0. No 1. Yes
3	41	RH isoimmunization?	0. No 1. Yes
3	42	Placenta previa?	0. No 1. Yes
3	43	Placenta abruption?	0. No 1. Yes
3	44	Premature rupture of membranes?	0. No 1. Yes
3	45	Gestational Diabetes?	0. No 1. Yes
3	46	Hypertensive disorders (chronic hypertension, preeclampsia, HELLP syndrome)?	0. No 1. Yes
3	47	Eclampsia / Seizures?	0. No 1. Yes
3	48	Threat of premature labour?	0. No 1. Yes

3	49	Fetal distress?	0. No 1. Yes
3	50	Syphilis?	0. No 1. Yes
3	51	Urinary tract infection?	0. No 1. Yes
3	52	HIV infection?	0. No 1. Yes
3	53	Toxoplasmosis (that needed to be treated)?	0. No 1. Yes
3	54	Positive culture for streptococcus in the vagina?	0. No 1. Yes
3	55	Birth defects?	0. No (go to 57) 1. Yes
3	56	Which birth defects?	String format
3	57	Other problems	0. No (go to 59) 1. Yes
3	58	Which other problems?	String format
3	59	Previous surgery on the uterus (i.e. to remove fibroids, micro-caesarean to interrupt pregnancy, or other surgical procedures on the uterus)?	0. No 1. Yes
Part 4		INFORMATION ON ADMISSION	
4	60	Date of last menstrual period (LMP):	Date format
4	61	Gestational age (on admission) calculated by LMP (in weeks):	Number format
4	62	Gestational age (on admission) measured by previous ultrasound scan (in weeks):	Number format
4	63	Gestational age (on admission) but method of calculation is not specified (in weeks):	Number format
4	64	Baby`s presentation:	-
	65	First Baby	1. Vertex (head first) 2.Breech 3. Other position 9. Not registered
4	66	Second baby	1. Vertex (head first) 2.Breech 3. Other position 9. Not registered
4	67	Third baby	1. Vertex (head first) 2.Breech 3. Other position 9. Not registered
4	68	Fourth baby	1. Vertex (head first) 2.Breech 3. Other position 9. Not registered
4	69	Level of conscious state of woman:	1. Lucid 2. Numbness (confusion) 3. In a coma 9. Not registered
4	70	Occurrence of convulsions before hospital admission?	0. No 1. Yes
4	71	Any record of blood pressure assessment upon admission?	0. No (go to 74) 1. Yes
4	72	First check of blood pressure: syst (mmHg):	Number format
4	73	First check of blood pressure: diast (in mmHg):	Number format
4	74	Any record of axillary temperature assessment on admission?	0. No (go to 76) 1. Yes

4	75	Temperature in centigrade	Number format
4	76	Vaginal bleeding after hospital admission and before delivery?	0. No 1. Yes, small 2. Yes, moderate 3. Yes, intense 4. Yes, unspecified
4	77	Loss of amniotic fluid (rupture of membranes) before hospital admission:	1. No 2. Yes, clear liquid with no lumps 3. Yes, clear liquid with lumps 4. Yes, fluid with meconium 5. Yes, bloody fluid 6. Yes, purulent fluid / foul 7. Yes, unspecified
4	78	Dilatation of the cervix on admission in centimeters:	Number format
4	79	Number of contractions every 10 minutes on admission to hospital:	Number format
4	80	Fetal heart rate (FHR) assessment on admission (or the first examination):	0. Absent (go to 82) 1. Present
4	81	Frequency of FHR?	Number format
4	82	Any cardiotocography (CTG)? it is possible to have more than one answer	0. No (go to 84) 1. Yes, before arriving in hospital 2. Yes, on admission 3. Yes, during labour
4	83	Any alteration in CTG?	0. No 1. Yes 9. not registered
4	84	Any Fetal Doppler flowmetry? it is possible to have more than one answer	0. No (go to 86) 1. Yes, before arriving in hospital 2. Yes, on admission 3. Yes, during labour
4	85	Any alteration in Doppler flowmetry?	0. No 1. Yes 9. not registered
4	86	Use of corticosteroids before delivery it is possible to have more than one answer	0. No (go to 86) 1. Yes, before arriving in hospital 2. Yes, on admission
4	87	Reason for going into hospital	1. Spontaneous labour 2. Induction of labour 3. Elective caesarean section (answer 88 and then go to 130) 4. Admission as a pregnant woman, for clinical or obstetric complications 5. Another reason

4	88	Diagnosis on hospital admission: (it is possible to have more than one answer)	1. Labour 2. Preterm labour / threat of premature labour 3. Ruptured membranes 4. Multiple pregnancy (two fetuses or more) 5. Prolonged pregnancy / post-maturity 6. Fetal distress (acute / chronic) - growth restriction (IUGR) 7. Polyhydramnios / Oligohydramnios 8. Placental abruption 9. Vaginal bleeding 10. Eclampsia / convulsions 11. Hypertension (any type) 12. Breech or other abnormal presentation (Cormic / transverse) 13. Previous caesarean 14. Gestational Diabetes 15. HIV Infection 16. Fetal death 17. With no clinical or obstetric diagnosis 18. Another diagnosis (answer 89 then go to 91) 19. Medical complications (go to 90)
4	89	Which other diagnosis?	String format
4	90	Which medical complications?	String format
4	91	Was there a caesarean section indication on admission?	0. No 1. Yes (go to 130)
Part 5		LABOUR CARE INFORMATION	
5	92	Date of admission in labour ward	Date format
5	93	Time of admission in labour ward	Time format
5	94	Labour:	-
5	95	Medications/ methods used for labour induction	1. Oxytocin 2. Misoprostol 3. Other
5	96	Any companion present during labour?	0. No 1. Yes 9. Not registered
5	97	Prescription diet during labour:	0. Nil by mouth 1. Liquid diet 2. Another type of diet 9. Not registered
5	98	Prescription of bed rest during labour:	0. No 1. Yes
5	99	Prescription of intravenous lyquids during labour:	0. No 1. Yes (go to 101)
5	100	Placement of venous cannulation during labour:	0. No 1. Yes
5	101	Prescription of antibiotics during labour:	0. No 1. Yes
5	102	Shaving for birth (in hospital)?	0. No 1. Yes
5	103	Enema before delivery?	0. No 1. Yes
5	104	Role of professional that assisted labour	1. Medical doctor 2. Obstetric nurse 3. Nurse 4. Midwife
5	105	Was there record of partogram in the medical record?	0. No (go to 110) 1. Yes

5	106	Dilatation of the cervix was registered at the beginning of the partogram?	0. No (go to 108) 1. Yes
5	107	How many centimeters?	Number format
5	108	Was the number of times the cervix was checked for dilatation registered in the partogram?	0. No (go to 110) 1. Yes
5	109	How many times?	Number format
5	110	Prescription of synthetic oxytocin during labour?	0. No (go to 116) 1. Yes
5	111	Prescription of oxytocin (Anotate the first prescription before delivery):	-
5	112	Number of ampoules of 5UI/500 ml serum	Number format
5	113	No. of drops / min	Number format
5	114	Infusion rate ml / hour	Number format
5	115	Dilatation of the cervix in the administration of oxytocin (in centimeters)	Number format
5	116	Prescription of pain relief medication during labour (it is possible more than one answer)	1. No 2. Yes, opioids (MEPERGAN, meperidine, demerol or pethidine) 3. Yes, other (buscopam, dipyrrone, hyoscine, etc.)
5	117	Use of non-pharmacological methods of pain relief in labour:	-
	118	Water in Shower	0. No 1. Yes
5	119	Bath tub	0. No 1. Yes
5	120	Massage	0. No 1. Yes
5	121	Birthing ball	0. No 1. Yes
5	121.1	Birthing stool	0. No 1. Yes
5	122	Rocking birth stool	0. No 1. Yes
5	123	Other	0. No (go to 125) 1. Yes
5	124	Specify other here	String format
5	125	Use of anesthesia/analgesia during labour:	0. No 1. Epidural 2. Spinal 3. Spinal + epidural (combined) 4. General
5	126	Rupture of membranes during labour/delivery:	0. No, it was broken before admission (go to 129) 1. Yes, spontaneous rupture 2. Yes, artificial rupture (made by professionals) 3. Yes, but unspecified how

5	127	Characteristic of amniotic liquid:	1. Clear liquid with no lumps 2. Clear liquid with lumps 3. Fluid with meconium 4. Bloody fluid 5. Purulent fluid / foul 6. Unspecified
5	128	Dilatation of the cervix at the time of rupture of membranes (in cm):	Number format
5	129	Is it registered in the medical record any of the following conditions? it is possible to have more than one answer	1. Fetal distress during labour 2. Elimination of thick meconium 3. Fetal bradycardia (BCF <110) 4. Fetal tachycardia (BCF> 160) 5. Presence of DIP 2 (slowdown in cardiotocography) 6. No record of any of the above conditions
Part 6		BIRTH CARE INFORMATION	
6	130	Date of birth?	Date format
6	131	Time of birth?	Time format
6	132	If any companion was present during birth?	0. No 1. Yes 9. Not written in the medical record
6	133	Type of delivery?	1. Vaginal (including forceps) 2. Cesarean (go to 146) (In case of twins with both vaginal and cesarean birth, complete with both types of birth) "
6	134	Use of forceps / vacuum extractor?	0. No 1. Forceps 2. Vacuum
6	135	The role of professional who assisted the birth?	1. Phisician 2. Obstetrician nurse 3. Nurse 4. Midwife 5. Nurse technician 6. Student 7. Other 9. Not written in the medical record
6	136	Position of women during birth:	1. Lying on your back with legs raised 2. Lying on one side 3. Sitting / reclining 4. in the bathtub 5. All fours support 6. squatting 7. standing up 9. Not written in the medical record

6	137	Time when the pregnant woman reached full dilatation (in partogram or medical records):	Time format
6	138	The duration of the second stage	Number format
6	139	Episiotomy	0. No 1. Yes
6	140	Occurrence of vaginal/perineal lacerations?	0. No 1. Yes, first degree 2. Yes, second degree 3. Yes, third degree 4. Yes, fourth degree 5. Yes, unknown degree
6	141	Occurrence of vaginal/perineal suture or episiorrhaphy?	0. No 1. Yes
6	142	Kristeller manoeuvre?	0. No 1. Yes
6	143	Any complications during birth or immediate postpartum period:	0. No 1. Shoulder dystocia 2. Cord prolapse 3. Uterine rupture 4. Prolonged expulsion stage 5. Uterine atony 6. Retained placenta 7. Other (answer 144)
6	144	Which complication?	String format
6	145	Use of anaesthesia:	0. No 1. Epidural 2. Spinal 3. Spinal + epidural (combined) 4. General 5. Local 6. Pudendal nerve 9. Not written in the medical record
Part 7		INDICATION FOR CAESAREAN SECTION	
7	146	Obstetrician Information	

7	147	1st obstetrician Indication	01. Previous Cesarean Section 02. Cephalopelvic Disproportion (CPD) 03. Failure to Progress Through labour 04. Placenta previa 05. Placenta abruption 06. Fetal distress / Intrauterine Growth Restriction (IUGR) 07. HIV Infection 08. Breech presentation(sitting) 09. Cord presentation (crossed) 10. Tubal ligation 11. Hypertension / Preeclampsia 12. Eclampsia 13. HELLP syndrome 14. Diabetes 15. Oligohydramnios 16. Twin pregnancy 17. Prematurity 18. Postmaturity (Prolonged Pregnancy) 19. Macrosomia 20. Failed induction 21. Malformation 22. Fetal death 23. Ruptured of membranes 24. Stillborn
7	148	Another. Which?	String format
7	149	2nd obstetrician Indication	Same as 147
7	150	Another. Which?	String format
7	151	3rd obstetrician Indication	Same as 147
7	152	Another. Which?	String format
7	153	4th obstetrician Indication	Same as 147
7	154	Another. Which?	String format
7	155	Anaesthesia type:	
Part 8		MATERNAL NEAR MISS	
8	156	The woman had any of the following clinical alterations whilst in hospital:	-
8	157	Acute cyanosis?	0. No 1. Yes
8	158	Agonizing breath (gasping)?	0. No 1. Yes
8	159	Respiratory rate (RR)> 40 or <6 ipm?	0. No 1. Yes
8	160	Shock?	0. No 1. Yes

8	161	Oliguria unresponsive to hydration and medications?	0. No 1. Yes
8	162	Coagulation disorder?	0. No 1. Yes
8	163	Jaundice in the presence of pre-eclampsia?	0. No 1. Yes
8	164	Seizures reentrant / complete paralysis?	0. No 1. Yes
8	165	Stroke?	0. No 1. Yes
8	166	Loss of consciousness longer than 12 hours?	0. No 1. Yes
8	167	Loss of consciousness associated with absence of pulse?	0. No 1. Yes
8	168	The woman had any of the following laboratory abnormalities whilst in hospital:	-
8	169	O2 saturation <90% for more than 60 minutes	0. No 1. Yes
8	170	PaO2/FiO2 <200 mmHg?	0. No 1. Yes
8	171	Creatinine > = 3.5 mg / dl?	0. No 1. Yes
8	172	Bilirubin > 6 mg / dl?	0. No 1. Yes
8	173	pH <7.1?	0. No 1. Yes
8	174	Lactate > 5?	0. No 1. Yes
8	175	Acute thrombocytopenia (platelets <50,000)?	0. No 1. Yes
8	176	Loss of consciousness associated with the presence of glucose and ketoacids in the urine?	0. No 1. Yes
8	177	Did the woman receive any of the following treatments whilst in hospital:	-
8	178	Continuous use of vasoactive drugs (dopamine, dobutamine, epinephrine)?	0. No 1. Yes
8	179	Hysterectomy after infection, sepsis or bleeding?	0. No 1. Yes
8	180	Transfusion > = 5 units of red blood cells?	0. No 1. Yes
8	181	Dialysis for acute renal failure?	0. No 1. Yes
8	182	Intubation and mechanical ventilation >= 60 minutes (not related to anesthesia)?	0. No 1. Yes
8	183	Cardiopulmonary resuscitation?	0. No 1. Yes
Part 9		NEWBORN's INFORMATION - PART 1	
9	184	Newborn's number in medical records	Number format
9	185	Live Birth certificate registry number	Number format
9	186	Gender:	1. Male 2. Female 3. Undefined
9	187	Birthweight (grams):	Number format
9	188	Gestational age by LMP	Number format
9	189	Weeks:	Number format

9	190	Days:	Number format
9	191	Gestational age by ultrasound scan	Number format
9	192	Weeks:	Number format
9	193	Days:	Number format
9	194	Gestational age by Capurro assessment	Number format
9	195	Weeks:	Number format
9	196	Days:	Number format
9	197	Gestational age by the New Ballard assessment	Number format
9	198	Weeks:	Number format
9	199	Days:	Number format
9	200	If caesarean birth, inform the indications written on the newborn' medical records	-
9	201	1st Indication for the C-section	01. Previous Cesarean Section 02. Cephalopelvic Disproportion (CPD) 03. Failure to Progress Through labour 04. Placenta previa 05. Placenta abruption 06. Fetal distress / Intrauterine Growth Restriction (IUGR) 07. HIV Infection 08. Breech presentation(sitting) 09. Cormic presentation (crossed) 10. Tubal ligation 11. Hypertension / Preeclampsia 12. Eclampsia 13. HELLP syndrome 14. Diabetes 15. Oligohydramnios 16. Twin pregnancy 17. Prematurity 18. Postmaturity (Prolonged Pregnancy) 19. Macrosomia 20. Failed induction 21. Malformation 22. Fetal death 23. Ruptured of membranes 24. Clinical complications 25. Not registered in the medical records
9	202	If another, specify here.	String format
9	203	2nd Indication for the C-section	Same as 201

9	204	If another, specify here.	String format
9	205	3rd Indication for the C-section	Same as 201
9	206	If another, specify here.	String format
9	207	4th Indication for the C-section	Same as 201
9	208	If another, specify here.	String format
9	209	Apgar score at 1 minute:	Number format
9	210	Apgar score at 5 minutes:	Number format
Part 10		NEWBORN's INFORMATION - PART 2	
10	211	Resuscitation in the delivery room	0. No 1. Yes
10	212	O2 inhaled	0. No 1. Yes
10	213	Mask ventilation with an Ambu bag	0. No 1. Yes
10	214	Orotracheal intubation	0. No 1. Yes
10	215	Cardiac massage	0. No 1. Yes
10	216	Drugs	0. No 1. Yes
10	217	Other	0. No 1. Yes
10	218	If another, specify here.	String format
10	219	Other procedures performed in the first hours after birth:	0. No 1. Yes
10	220	Upper airway aspiration?	0. No 1. Yes
	221	Gastric aspiration?	0. No 1. Yes
10	222	Vitamin K (Kanakion)?	0. No 1. Yes
10	223	Creed`s maneuver (manually extracting the placenta; drops of silver nitrate on newborn`s eyes and manual pessure of bladder)?	0. No 1. Yes
10	224	Hepatitis B vaccination?	0. No 1. Yes
10	225	The baby went to incubator?	0. No 1. Yes
10	226	The baby was hospitalized?	0. No, (go to 256) 1. Yes
10	227	Use of oxygen after birth:	-
10	228	O2 Hood	0. No 1. Yes
	229	Continuous positive airway pressure (CPAP)	0. No 1. Yes
10	230	Mechanical ventilation	0. No 1. Yes
10	231	Within 28 days of life was the baby on O2 therapy (any type)?	0. No 1. Yes 8. The baby was no longer in hospital

10	232	If the baby was born premature, when he completed 36 weeks of corrected gestational age was he still on O2 therapy (any type)?	1. Term newborn 2. No 3. Has not yet reached 36 weeks 4. Yes 5. The baby was no longer in hospital
10	233	Was there an indication for admission in neonatal intensive care unit:	0. No 1. Yes
10	234	Was the baby admitted to NICU:	0. No 1. Yes
10	235	Use of surfactant:	0. No 1. Yes
10	236	Hypoglycemia (blood glucose less than 40) in the first 48 hours of life	0. No 1. Yes
10	237	Antibiotic use	1. No 2. Before 48 hours of life (early sepsis) 3. After 48 hours of life (late sepsis)
10	238	Phototherapy in the first 72 hours of life:	0. No 1. Yes
10	239	Maximum level of bilirubin in the first 72 hours of life (mg / dl)	Number format
10	240	Congenital malformation?	0. No 1. Yes
10	241	Other diagnoses during hospitalization:	-
10	242	Transient tachypnea?	0. No 1. Yes
10	243	Hyaline membrane disease?	0. No 1. Yes
10	244	Meconium aspiration syndrome?	0. No 1. Yes
10	245	Pulmonary hypertension?	0. No 1. Yes
10	246	Seizure?	0. No 1. Yes
10	247	Necrotizing enterocolitis?	0. No 1. Yes
10	248	Toxoplasmosis?	0. No 1. Yes
10	249	Congenital rubella?	0. No 1. Yes
10	250	Herpes?	0. No 1. Yes
10	251	Cytomegalovirus?	0. No 1. Yes
10	252	Congenital syphilis?	0. No 1. Yes
10	253	Children exposed to HIV?	0. No 1. Yes
10	254	Other?	0. No 1. Yes
10	255	Specify others here	
10	256	Exclusive breastfeeding:	0. No 1. Yes

10	257	Other foods that the baby received during hospitalization	1. Water 2. Intravenous glucose/ Oral glucose 3. Expressed human milk 4. Infant formula 5. Parenteral nutrition
10	258	Outcome	0. The baby was still in hospital after 28 days 1. Discharged from hospital 2. Neonatal death 3. Transferred to another hospital (go to 260)
10	259	Date of discharge/ outcome	Date format
10	260	Hospital where the baby was transferred to (name - city - state):	String format
10	260.1	Reason for being transferred	String format
10	260.2	Date of transfer	Date format
10	260.3	Outcome from hospital where the baby was transferred to	0. The baby was still in hospital after 28 days 1. Discharged 2. Neonatal death
10	260.4	Date of hospital discharge/outcome from the hospital where he was transferred to	Date format
10	261	Death cause that was registered in the newborn medical record	1. Extreme prematurity (< 1000g) 2. Infection 3. Congenital Syphilis 4. Malformation 5. Respiratory complications 6. Others (answer 262)
10	262	If other, specify here	String format
10	263	Number of the death certificate registry	Number format
10	264	Baby's weight at hospital discharge, death or at 28 days old, if still hospitalized (in grams)	Number format
10	265	Comments:	String format