

Appendix 1

Hyperbilirubinemia Study Questionnaire

Neonatal jaundice is one problem often encountered in the first 2 weeks after birth. The purpose of this study is to determine the incidence of phototherapy and risk factors contributing to neonatal jaundice in the community. This study is a collaboration between the University of California, San Francisco, and the Hanoi School of Public Health.

Inclusion Criteria: all live newborns

Exclusion Criteria: all newborns still hospitalized at 28 days of life after birth or families that cannot be contacted before 28 days after birth.

Time of interview: From 14-21 days of life. If baby is still hospitalized or family cannot be contacted prior to 21 days, then interview can be done at up to 28 days of life.

Name of interviewer:

Date of interview: day.....month.....year.....

Interviewer ID#

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Subject ID#

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Demographic Information

1.	Mother's Name						
2.	Mother's Birthdate	day_____ month_____ year_____		Western calender				
3.	Baby's Name						
4.	Baby's sex		male female	1 2				
5.	Baby's birthweight	Gm <table border="1"><tr><td></td><td></td><td></td><td></td></tr></table> Don't remember					1 98	

Birth History

	Question	Answer		Notes
6.	Baby's date of birth	day___ month___ year___		Western calender
7.	What time was baby born?	_____ h _____ Don't know	1 98	Write as 24 hour
8.	Mode of delivery	C-section Vaginal Forceps Vacuum Other (specify):.....	1 2 3 4 99	→ # 9 → #10 → # 10 → #10 → #10

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9.	If C-section, then why?		
10.	Place of birth	<p>Commune health station 1</p> <p>District Hospital 2</p> <p>Provincial Hospital 3</p> <p>Private facility 4</p> <p>Home 5 →#13</p> <p>Other (specify): 99</p>		
11.	Date of Discharge	<p>day___month___year___ 1</p> <p>Don't remember 98</p>		Western calendar
12.	Time of Discharge	<p>_____h_____ 1</p> <p>Don't know 98</p>		Write as 24 hours
13.	Estimated date of delivery (by ultrasound or by estimation by health care worker)	<p>day___month___year___ 1</p> <p>Don't remember 98</p> <p>Other (specify)..... 99</p>		Western Calendar
14.	Last menstrual period	<p>day___month___year___ 1</p> <p>don't remember 98</p>		Western Calendar
15.	How many weeks gestation did you carry the baby?	<p>.....weeks 1</p> <p>Don't remember 98</p>		
16.	Did baby have a cephalohematoma after birth?	<p>Yes 1</p> <p>No 2</p>		
17a.	At time of delivery, did you have any complications?	<p>Yes 1</p> <p>No 2 → #18</p>		
17b.	If yes, what complication did you have?	.....	
18.	Did baby have any complications at time of birth or while hospitalized after birth?	<p>Yes 1</p> <p>No 2 → #21</p>		
19.	If yes, what complication did baby have?	.....	
20.	If baby had problems after birth, did baby receive any of the following treatments?	<p>antibiotics 1</p>	Yes 1	No 2

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		IV fluids	1	2
		Oxygen supplementation	1	2
		Mechanical ventilation	1	2
		Phototherapy	1	2
		Blood exchange transfusion	1	2
		Feeds by feeding tube	1	2
		Other (specify).....	99	2
21.	How many pregnancies have you had including this one?	.....times		
22.	How many births did you have, including this one?	.....times		If 1 → #27. If ≥ 2 → #23
23.	Did any of your previous children have jaundice during the first month of life?	Yes No Other (specify).....	1 2 99	→ #27
24.	If yes, was baby hospitalized for the jaundice?	Yes No Died before hospitalization	1 2 3	→ #27 → #27
25.	If hospitalized for jaundice, did baby receive any of the following treatments?	Phototherapy Blood exchange transfusion Don't remember Other (specify).....	Yes 1 1 1 98	No 2 2 2 2
26.	If hospitalized, what was the outcome of the previous baby?	Recovered, healthy, and discharged Discharged but still having health problems Discharged and died at home Died in the hospital Other (specify).....	1 2 3 4 99	

Now please recall back to the baby's first week of life and answer the following questions relating to feeding and newborn care practices. (Remember this is only during the first week of life)

Feeding Practices

27.	After birth, during the first week of life, did baby get breast milk?	Yes No	1 2	
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28.	After birth, during first week, was baby's feeding supplemented with anything else?	Yes No	1 2		
29.	If supplemented, then why?				→ #30
30.	During the first 3 days after birth, what did you feed baby?	Exclusively breast milk Exclusively formula and no breast milk Both breast and formula Other (specify).....	1 2 3 99		
31.	After 7 days until today, what did you feed your baby?	Exclusively breast milk Both breast and formula Other milk but no breast milk Other (specify).....	1 2 3 99		
32.	If not exclusively fed breast milk, what else did you feed baby?	Baby formula Whole cow's milk Sweetened condensed milk Soy milk Rice porridge/rice water water Exclusively breastmilk Other (specify).....	Yes 1 1 1 1 1 1 1 99	No 2 2 2 2 2 2 2 2	
33a.	During the first 3 days after birth, on average how many times a day did you feed baby? (including breast and other milk) (1 day means over a 24 hour period)	≤ 4 times 5 – 7 times 8-10 times ≥ 11 times Don't remember	1 2 3 4 98		
33b.	From 4 days until 7 days after birth, on average how many times a day did you feed baby? (including breast and other milk) (1 day means over a 24 hour period)	≤ 4 times 5 – 7 times 8-10 times ≥ 11 times Don't know	1 2 3 4 98		
34.	Did you receive any guidance on how to breast feed?	Yes No	1 2		→ #36
35.	If yes, did you receive guidance			Yes	No

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from any of the following people? (choose all that apply)	Physician	1	2
	Nurse/physician assistant	1	2
	Lactation consultant	1	2
	Other healthcare worker	1	2
	Mother/family member	1	2
	Other (Specify).....	99	2

Newborn Care Practices

36.	During the first week after born, did you always keep baby in an enclosed room? (no sunlight, door closed)	Yes No	1 2	
37.	During the first week after born, did you expose the baby to sunlight?	Yes No	1 2	→ #41
38.	How did you expose the baby to sunlight?	Open door/window, allow sunlight in but not expose to direct sunlight Direct exposure to sunlight Other (specify).....	1 2 99	→ #41
39.	How many times did you expose baby to sunlight during the first week?	.....times Don't know	1 98	
40.	How long did you exposed baby to sunlight during each exposure?	.....minutes Don't know	1 98	
41.	In your belief, during the first week after birth, what affect does taking the baby outdoors have on the baby?	Good Harmful No effect Don't know	1 2 3 98	→ # 43 → # 43
42.	If good or harmful, then why?	.....	
43.	In your belief, during the first week after birth, what affect does exposing the baby directly to sunlight have on the baby?	Good Harmful No effect Don't know	1 2 3 98	→ # 45 → # 45
44.	If good or harmful, then why?	.....	
45.	During the first week after birth, did you use any traditional remedies, herbal medicines, or Chinese medicines to keep baby	Yes No	1 2	→ #47

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	healthy and prevent illness?			
46.	If yes, what did you use?			
47.	During the first week after birth, did baby have any health problems?	Yes No	1 2	→ #51a
48.	If yes, what problem did baby have?			
49.	Did you use any traditional remedies, herbal medicines, or Chinese medicines to treat baby at home before taking the baby to a doctor?	Yes No	1 2	→ # 51a
50.	If yes, what did you use?			
51a.	Do you put moth balls in your clothes drawer?	Yes No	1 2	
51aa.	Do you ever use mentholated oils on baby's skin or on baby's clothes?	Yes No	1 2	
51b.	Other than cotton, alcohol, and tape, do you use any traditional practices or medicines to care for baby's umbilicus?	Yes No	1 2	→ #52
51c.	If yes, specify			

Jaundice

52.	Prior to baby's birth, did you ever hear about neonatal jaundice?	Yes No	1 2	→ # 56
53.	If yes, where did you hear it from? (Choose all that apply)	Elders/family members/acquaintances T.V./newsprint/books/self-learned Physicians/nurses/health care workers Previous baby was jaundiced Other (specify).....	Yes 1 1 1 1 99	No 2 2 2 2 2
54.	Prior to baby's birth, did you think that neonatal jaundice can be harmful?	Yes No Don't know	1 2 98	→ # 56 → # 56
55.	If yes, where did you hear this from? (choose all that apply)	Elders/family members/acquaintances T.V./newsprint/books/self-learned Physicians/nurses/health care workers	Yes 1 1 1	No 2 2 2

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		Previous baby was jaundiced	1	2
		Heard of cases where babies needed phototherapy, blood exchange transfusion, or died from jaundice	1	2
		Other (specify).....	99	2
56.	After birth, did you receive any guidance on monitoring neonatal jaundice?	Yes No	1 2	➔ # 58
57.	If yes, who did you receive guidance from? (Choose all that apply)	Elders/family members/acquaintances T.V./newsprint/books/self-learned Physicians/nurses/health care workers I know because previous child jaundiced Khác (ghi rõ).....	Yes 1 1 1 1 99	No 2 2 2 2 2
58.	Did baby become jaundice during the first week after birth?	Yes No	1 2	➔ #63
59.	When did baby first appeared jaundiced?	Day__Month__Year____ Don't remember	1 98	Western calendar
60.	Did you worry when you saw that the baby was jaundiced?	Yes No	1 2	➔ # 63
61.	If you were worried, did you take baby to a health care facility to be checked?	Yes No	1 2	➔ # 63
62.	If no, then why?	.....	

Healthcare Practices

The following questions relate to events occurring 2 weeks after birth.

63.	During the first 2 weeks after birth, did you take baby for a well baby check-up visit? (Baby was not sick.)	Yes No	1 2	➔ # 65
64.	If yes, when was the first time did you take baby to be seen?	Day____ Month____ Year____ Don't know	1 98	Western calendar
65.	During the first 2 weeks after birth, did baby have any of the following problems? If YES to ANY of questions 65a-65h, continue to question #66.			

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If NO to ALL questions 65a-65h, then skip to question #68.		Yes	No	
65a.	Jaundice	1	2	
65b.	Poor feeding/stopped feeding	1	2	
65c.	Breathing problems	1	2	
65d.	Sleeping a lot, lethargic, difficult to arouse	1	2	
65e.	Poor voiding or no stooling	1	2	
65f.	Seizures	1	2	
65g.	Fever/infection	1	2	
65h.	Other (specify).....	99	2	
66.	Did you take baby to be checked for any of those problems?	Yes	1	→ #68
		No	2	
67.	When did you take baby to be checked?	day_____ month_____ year_____	1	Western calendar
		Don't remember	98	
68.	Was the baby hospitalized for any reason? (Meaning after baby was discharged home, had health problems, and readmitted)	Yes	1	→ # 78
		No	2	

Questions Regarding Rehospitalization

69.	Where did you take the baby to be hospitalized?	Chí Linh District Hospital	1	
		Hải Dương Provincial Hospital	2	
		Quảng Ninh Swedish Hospital	3	
		National Hospital of Pediatrics	4	
		Other (specify).....	99	
70.	What was the main reason for baby's hospitalization?		
71.	When was baby admitted?	day_____ month_____ year_____	1	
		Don't remember	98	
72.	If baby was examined/hospitalized at district of provincial hospital, was baby subsequently transferred to the National Hospital of Pediatrics?	Yes	1	→ #74 → # 74
		NO	2	
		Brought directly to the NHP	3	
73.	If transferred to the NHP, what day did that occur?	day_____ month_____ year_____	1	
		Don't remember	98	
74.	How many days did baby stay in the hospital? (total time in alldays		

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	hospitalized)			
75.	During the time that baby was hospitalized, did baby receive any of the following treatments?		Yes	No
75a.	Phototherapy		1	2
75b.	Blood exchange transfusion		1	2
75c.	IV fluids		1	2
75d.	Oxygen supplementation		1	2
75e.	Mechanical ventilation/bag mask ventilation		1	2
75e.	Antibiotics		1	2
75f.	Tube feedings		1	2
75g.	Other (specify).....		99	2
76.	What was the physician's diagnosis of baby's problem?	..... Don't know	1 98	
77.	Outcome after discharged from hospital:	Recovered, healthy, discharged home Recovered, discharged, but still having residual health problems Discharged home and died Died at hospital Other (specify).....	1 2 3 4 99	
78.	Hypothetically, if you needed to take baby to be seen at a health care facility, do any of the following make it difficult for you to seek care?		Yes	NO
78a.	Cost		1	2
78b.	Distance from home to health care facility too far		1	2
78c.	No mode of transportation		1	2
78d.	Bad impression of health care workers from previous experience		1	2
78e.	No time to take baby or unable to get time off from work		1	2
78f.	Baby too small, don't want to take baby outside of the home		1	2
78g.	Bad weather/too cold/rain		1	2
78h.	Other (specify).....		99	2

Thank you for participating!