

MALAYSIAN NATIONAL NEONATAL REGISTRY (CRF 2012)

Centre Name: _____		☐ New Case ☐ Readmission ☐ Transfer from, if relevant : _____		MNRR No. (Office use): Centre: 	
Date of Admission: (dd/mm/yy)					
Admitted to neonatal ward: ☐ Yes → (Proceed to complete all sections in this CRF) ☐ No → (Proceed to complete [Sections 1,2,4(No.47) and 5])					
☐ Abandoned baby → (if box is ticked, item # 1,4a, 6-16 not mandatory)					
Instruction: Where check boxes ☐ are provided, check (✓) one or more boxes. Where radio buttons ☐ are provided (✓) one box only.					
SECTION 1 : PATIENT PARTICULARS & MATERNAL HISTORY					
*1. Name of mother: _____					
*2. Name of baby (Optional): _____					
*3. RN of baby: _____					
*4a. Mother's I/C number:		Mycard: - - Other ID document No: Specify document type (if others): ☐ Passport ☐ Armed Force ID ☐ Driver's License ☐ Old IC ☐ Hospital RN ☐ Father's I/C ☐ Work Permit number ☐ Police ID Card ☐ Immigration permit ☐ Other, specify: _____			
*4b. Baby's Mykid number:		 - - 			
*5a. Date of birth of baby: (dd/mm/yy)		 / / 		*5b. Time of birth: (24– hour format) (enter the best estimated time of birth if the exact time unknown) 	
*6. Ethnic group of Mother:		☐ Malay ☐ Indian ☐ Bumiputra Sabah, specify: _____ ☐ Other, Malaysian ☐ Chinese ☐ Orang Asli ☐ Bumiputra Sarawak, specify: _____ ☐ Non-citizen, specify country: _____			
*7. Maternal age:		 			
*8. GPA: (current pregnancy before delivery of this child)		*Gravida: 		*Parity: 	
				*Abortion: 	
*9. Maternal diabetes (including gestational diabetes):		☐ Yes ☐ No ☐ Unknown			
*10. Maternal hypertension, chronic pregnancy included:		☐ Yes ☐ No ☐ Unknown			
*11. Maternal Eclampsia:		☐ Yes ☐ No ☐ Unknown			
*12. Maternal Chorioamnionitis:		☐ Yes ☐ No ☐ Unknown			
*13. Maternal Anaemia:		☐ Yes ☐ No ☐ Unknown			
*14. Maternal abruption placenta:		☐ Yes ☐ No ☐ Unknown			
*15. Maternal Bleeding placenta praevia:		☐ Yes ☐ No ☐ Unknown			
*16. Cord prolapse:		☐ Yes ☐ No ☐ Unknown			
SECTION 2 : BIRTH HISTORY					
*17. Antenatal steroid:		☐ Yes → ☐ 1 dose ☐ 2 doses ☐ No ☐ Unknown			
*18. Intrapartum antibiotic:		☐ Yes ☐ No ☐ Unknown			
*19. Birth weight:		 (grams)			
*20a. Gestation:		 (weeks)		*20b. Gestational age based on: (if patient died) ☐ LMP ☐ Ultrasound ☐ Neonatal assessment ☐ Unknown	
*21. Growth status:		☐ SGA ☐ AGA ☐ LGA			
*22. Gender:		☐ Male ☐ Female ☐ Ambiguous/ Indeterminate			
*23. Place of birth:		☐ Inborn ☐ Home ☐ University hospital ☐ Enroute/ During transport ☐ Outborn → ☐ Health Clinic ☐ Private hospital ☐ Others, specify: _____ ☐ Private Hospital ☐ Maternity home with specialist ☐ Unknown ☐ Government hospital with specialist ☐ Maternity home without specialist ☐ District ☐ General ☐ Alternative Birthing centre (ABC) ☐ Government hospital without specialist ☐ Urban ☐ Rural			
*24. Multiplicity:		☐ Singleton ☐ Twin ☐ Triplet ☐ Other, specify: _____			
*25. Final Mode of delivery:		☐ Vaginal delivery → ☐ SVD ☐ Breech ☐ Caesarean section → ☐ Elective ☐ Emergency ☐ Instrumental → ☐ Vacuum ☐ Forceps ☐ Others, specify: _____ ☐ Unknown			

SECTION 2 : BIRTH HISTORY (continue)

*26. Apgar score at 1 min and 5 min (1-10)	a) Score at 1 min:	☐ Unknown	b) Score at 5 min: (Please score even if the baby is intubated)	☐ Unknown
27. Initial resuscitation: (applicable for inborn only)	a) Oxygen:	☐ Yes ☐ No	d) Cardiac compression:	☐ Yes ☐ No
	b) Bag-mask vent:	☐ Yes ☐ No	e) Adrenaline:	☐ Yes ☐ No
	c) Endotracheal tube vent:	☐ Yes ☐ No		
*28. Admission temperature: (mandatory if admitted to Neonatal ward)		. (°C)		

SECTION 3: NEONATAL EVENT

*29. Respiratory support:	☐ Yes →	a) CPAP done?	☐ Yes ☐ No
	☐ No	i) Early CPAP within 1 hour from birth: ☐ Yes ☐ No ii) Total duration of CPAP at your centre: day(s)	
		b) Conventional ventilation:	☐ Yes ☐ No
		i) Total duration of Conventional ventilation at your centre: day(s)	
		c) HFJV/HFOV:	☐ Yes ☐ No
		i) Total duration of HFJ//HFOV at your centre: day(s)	
		d) Nitric Oxide:	☐ Yes ☐ No
		i) Total duration of Nitric Oxide at your centre: day(s)	
*30. Total number of days on ventilation support at your centre:		(autocalculate)	
*31. Surfactant:	☐ Yes → ☐ < 1 hr ☐ 1-2hrs ☐ >2 hrs ☐ No		
*32. Parenteral nutrition:	☐ Yes ☐ No		

SECTION 4: PROBLEMS/ DIAGNOSES

*33. Respiratory:	☐ Meconium aspiration syndrome ☐ Pulmonary haemorrhage ☐ Pneumonia ☐ Transient tachypnoea of newborn ☐ Pulmonary interstitial emphysema		
*34. RDS:	☐ Yes ☐ No		
*35. Pneumothorax:	☐ Yes → Pneumothorax developed during: ☐ CPAP ☐ CMV ☐ HFV ☐ No		
*36. Supplemental oxygen and BPD:	For babies <32 weeks-State 'yes' if O2 required for Day 28 AND if Oxygen or CPAP or ventilatory support required at 36 weeks corrected gestational age. a) Day 28: ☐ Yes ☐ No b) 36 weeks corrected age: ☐ Yes ☐ No For babies ≥32 weeks-State 'yes' if O2 required at 28days AND if any oxygen or CPAP or ventilatory support required at ≥56 postnatal days. a) Day 28: ☐ Yes ☐ No b) ≥ Day 56: ☐ Yes ☐ No		
*37. Cardiovascular	PPHN: ☐ Yes ☐ No ☐ Unknown		
*38. PDA:	☐ Yes → ☐ No a) ECHO done: ☐ Yes ☐ No b) Indomethacin/Ibuprofen: ☐ Yes ☐ No c) Ligation: ☐ Yes ☐ No		
*39. NEC (stage 2 and above):	☐ Yes → ☐ No A) surgical treatment: ☐ Yes ☐ No B) NEC present before admission to your centre (for outborn only): ☐ Yes ☐ No		
*40. ROP Retinal Exam Done	☐ Yes (If yes, worst stage of ROP): ☐ No ☐ Not Applicable		
	a) Date of first screening/appointment: / / b) Post conceptional age at 1st screening: (autocalculate) c) ☐ No ROP ☐ Stage 1 ☐ Stage 2 ☐ Stage 3 ☐ Stage 4 ☐ Stage 5 ☐ PLUS disease d) Laser Therapy: ☐ Yes ☐ No e) Cryotherapy: ☐ Yes ☐ No f) Vitrectomy: ☐ Yes ☐ No g) ROP present prior to admission? (for outborn baby only): ☐ Yes ☐ No Appointment given: ☐ Yes ☐ No		

*41. IVH:	☐ Yes If yes, worst grade: → ☐ No ☐ Not applicable (term infant) ☐ Ultrasound not done
	☐ Grade 1 ☐ Grade 2 ☐ Grade 3 ☐ Grade 4 ☐ VP shunt/ reservoir insertion
*42. Central venous line:	☐ Yes ☐ No
*43. Seizures:	☐ Yes ☐ No
*44. Confirmed sepsis:	☐ Yes → ☐ No I) For first episode: ☐ On or before day of life ☐ After day 3 of life II) Type of organism: (can tick more than one) ☐ Group B Streptococcus ☐ ESBL organisms ☐ Klebsiella ☐ Others, specify: ☐ MRSA ☐ Fungal ☐ Pseudomonas ☐ CONS ☐ Staphylococcus aureus ☐ Acinetobacter
*45. Neonatal meningitis:	☐ Yes ☐ No
*46. Hypoxic ischaemic encephalopathy (HIE):	☐ None ☐ Mild ☐ Moderate ☐ Severe
*47. Congenital anomalies:	

***47a. Major congenital anomalies:**
☐ Yes ☐ No

☐ Syndrome (known)
☐ Down
☐ Edward
☐ Patau
☐ Others, specify (Refer to ICD 10):

☐ Not a recognized syndrome
☐ Isolated major abnormality

***47b. Types of abnormalities (check all that are present. Applies to all including 'known syndromes', 'not a recognized syndrome' or 'isolated major abnormality')**

☐ CVS → ☐ Cyanotic ☐ Acyanotic
☐ ECHO done

☐ CNS → ☐ Hydrocephalus
☐ Hydrancephaly
☐ Holoprosencephaly
☐ Others (Refer to ICD 10):

☐ Neural Tube Defect
☐ Spina bifida
☐ Anencephaly
☐ Encephalocele
☐ Others (Refer to ICD 10):

☐ Skeletal dysplasia
☐ Respiratory
☐ GIT
☐ Hydrops
☐ Renal
☐ Cleft → ☐ Lip ☐ Palate ☐ Lip and Palate

☐ Others, specify (Refer to ICD10):

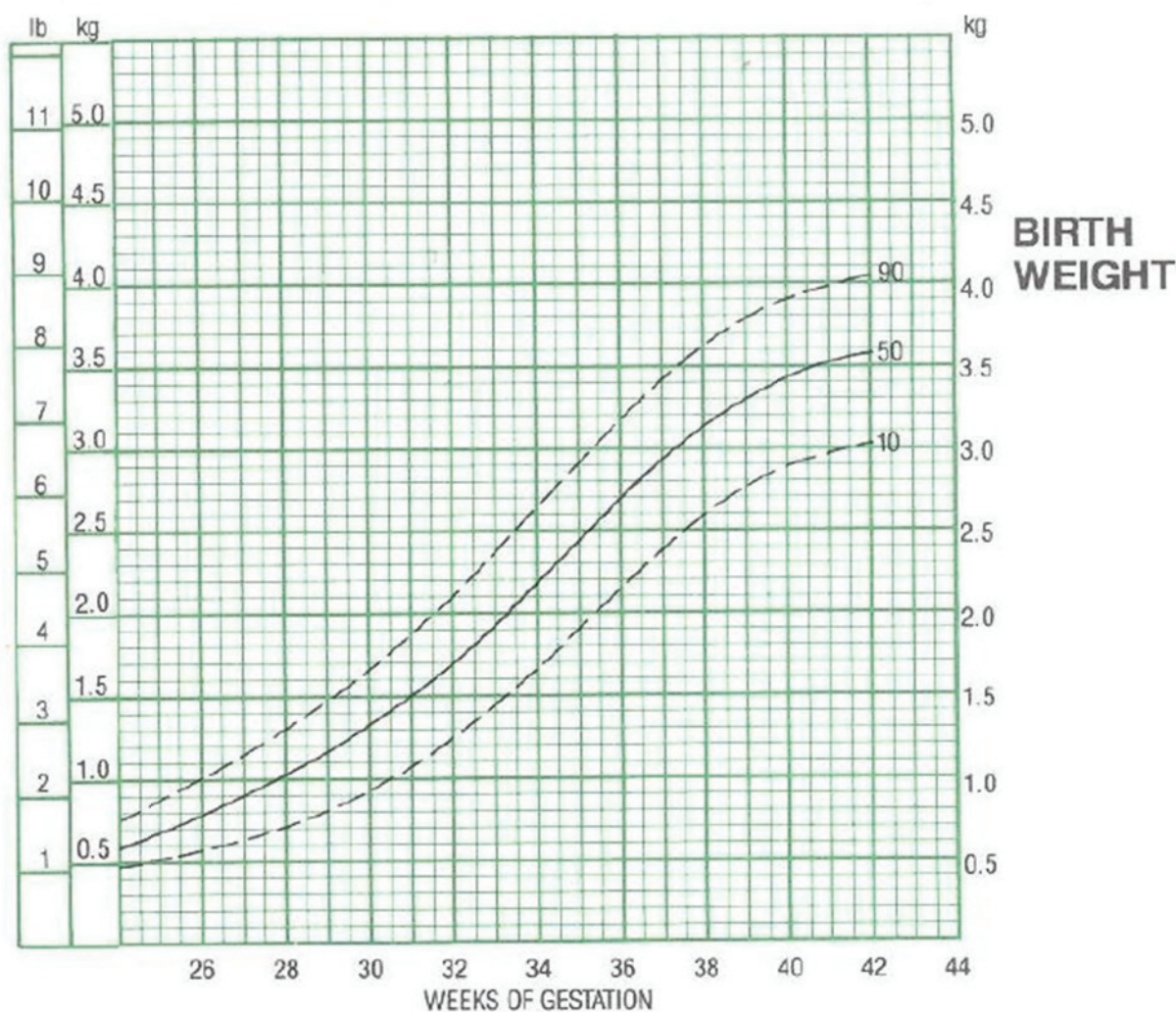
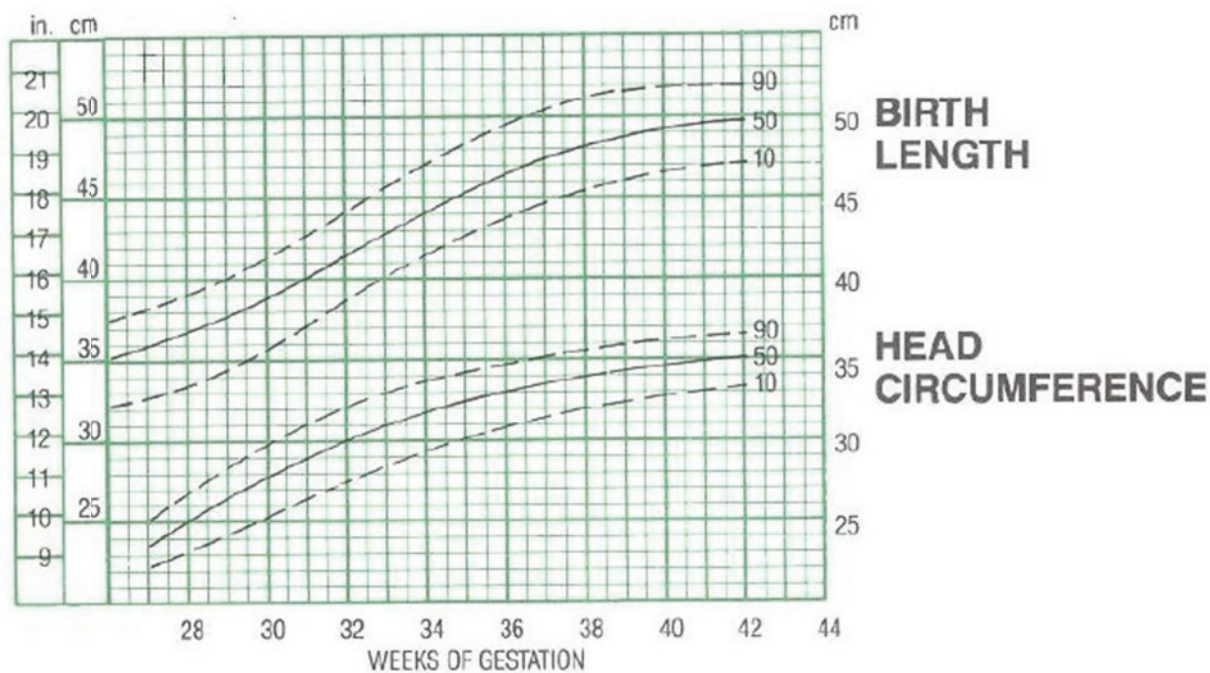
☐ None of the above

*48a. Date of discharge / transfer/ death: (dd/mm/yy)		/ /	48b. Time of Death: (24 hour format) (mandatory for death cases)	(enter the best estimated time of death if the exact time is unknown)
*49. Weight and growth status on discharge:	a) Weight:	(grams)		
	b) Growth status:	☐ SGA ☐ AGA ☐ LGA		
*50. Feeding at discharge / death:		☐ Never fed ☐ Human milk only ☐ Formula only ☐ No data/ Unknown		
*51. Total duration of hospital stay (neonatal/ peds care):		(in completed days) (autocalculate)		
*52. Outcome:				

☐ Alive →	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="background-color: #e0f2f7;">Place discharged to:</td> </tr> <tr> <td colspan="2"> ☐ Home ☐ Social welfare home ☐ Other non Paeds ward ☐ Still hospitalized as 1st birthday ☐ Transfer to other hospitals → </td> </tr> <tr> <td style="width: 30%; background-color: #e0f2f7;">a) Name of hospital:</td> <td></td> </tr> <tr> <td style="background-color: #e0f2f7;">b) Reason for transfer:</td> <td> ☐ Growth/ stepdown care ☐ Acute medical/ ☐ Social/ Logistic reason ☐ Lack of NICU bed diagnostic services ☐ Other, specify: ☐ Chronic/ Palliative care ☐ Surgery </td> </tr> <tr> <td style="background-color: #e0f2f7;">c) Post transfer disposition: (Please fill this section if place transferred is not part of the NNR Network)</td> <td> ☐ Home ☐ Transferred again to another hospital ☐ Death ☐ Readmitted to your hospital </td> </tr> </table>	Place discharged to:		☐ Home ☐ Social welfare home ☐ Other non Paeds ward ☐ Still hospitalized as 1st birthday ☐ Transfer to other hospitals →		a) Name of hospital:		b) Reason for transfer:	☐ Growth/ stepdown care ☐ Acute medical/ ☐ Social/ Logistic reason ☐ Lack of NICU bed diagnostic services ☐ Other, specify: ☐ Chronic/ Palliative care ☐ Surgery 	c) Post transfer disposition: (Please fill this section if place transferred is not part of the NNR Network)	☐ Home ☐ Transferred again to another hospital ☐ Death ☐ Readmitted to your hospital
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☐ Dead →	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; background-color: #e0f2f7;">Place of death:</td> <td> ☐ Labour room/OT ☐ Neonatal unit ☐ In transit ☐ Others, specify: </td> </tr> </table>	Place of death:	☐ Labour room/OT ☐ Neonatal unit ☐ In transit ☐ Others, specify:								
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INTRAUTERINE GROWTH CURVES (COMPOSITE MALE / FEMALE) (APPENDIX 2)



Data Source: W.H. Kitchen et al Revised intrauterine growth curves for an Australian hospital population. Aust. Paediatr. J. (1983) 19:157-161.