



# Standard Operating Procedures for District Women Hospitals- Uttar Pradesh

## SOP SNCU



Standard Operating Procedure	Document No:	
Sick New Born Care Unit	Version:	
	Date of Issue:	

### **Objectives of Sick New Born Care Unit (SNCU)**

- Manage Specific conditions- Post Asphyxia, Sepsis, (Pneumonia & Meningitis), Tetanus Neonatorum, Neonatal Jaundice
- 2. Measures to reduce deaths in SNCU
- 3. Enhancing the skill of the staff by regular CME
- 4. Follow the protocol for step-down of Newborn

Prepared By:	Approved By:

Standard Operating Procedure	Document No:
Sick New Born Care Unit	Version:
	Date of Issue:

#### 1. Purpose:

- Neonatal mortality contributes to about two thirds of infant deaths. There is an increasing need to focus on newborn care and survival for significant reduction in IMR.
- Strengthening the care of sick, premature, low birth weight newborns right from birth through the neonatal period.
- To provide all required services to in born as well as out born neonates referred to SNCU.
- To respond to the need and expectations of the attendants.

#### 2. Scope:

To provide Intensive care services to sick new born babies both in-born and out-born.

#### 3. Responsibility:

Pediatrician on duty/sister in-charge

- To receive the potential high risk sick new born referred from OT, LR and maternity ward (in born) or referred from other health facilities.
- To pay immediate attention, assessment, immediate management.
- It is the responsibility of pediatrician on duty at SNCU to attend the call from emergency for acutely sick new born baby.
- To provide immediate intensive care to acutely sick newborn and the treatment record should be mentioned in Bed Head Ticket.
- Triage management of Sick Inborn & Out-born Neonate
- Shifting of baby to step-down is sole responsibility of SNCU team
- To take decision for transferring the severely sick New Born to higher level
- To follow all quality parameters

#### 4. Standard Procedure:

S.No.	Activity	Responsibility	Reference Document / Record
4.1	Registration for admission in SNCU:		
4.1.1	Registration is done at registration counter during OPD hours and at emergency department during non OPD hrs.  Every patient who is registered is provided with an identification number and directed either towards the OPD/ Emergency department based on the	Treating Doctor, Nurse.	In-patient Admission Register / BHT

Prepared By:	Approved By:

		Standard Operating Procedure	Document No:	
		Sick New Born Care Unit	Version:	
			Date of Issue:	
	time of	registration.		
	A writt	ten order for hospitalization by the doctor at		
	the Pa	ediatric OPD during OPD hours or the		
1 2	1100	al officer at the emergency after OPD hours.		
	Wicuica	if officer at the emergency after of D hours.		
	Criteri	ia for babies to be admitted in SNCU		
	a) Crit	teria for babies to be admitted in SNCU		
	for inb	orn babies:		
	1. Infar	nts who are born prior to 34 weeks gestation		
		nts weighing 1800 grams at birth (regardless		
	of gesta	ational age).		
	_	nates weighing less than 1.2 Kg should be		
	100	d to the higher centre after proper		
	stabiliz			
	3. Infa	nts with an APGAR score of < 6 at 1 min		
1	and	evidence of birth asphyxia or delayed cry		
1	afte	r 5 minutes. (i.e. slow gasping respiration or		
1	no r	respiration at 1 minute).		
	4. Afte	er prolonged Resuscitation that is after using		
	Bag	and mask or Bag and tube.		
		istent respiratory Distress.		
	6. Shoo	ck or CRT > 3 seconds		
	7. Cent	tral cyanosis		
	8. Von	nitingespecially bile stained		
1	9. Neo	nates with surgical problems should also be		
	referre	d after stabilizing.		
	10. Ar	ny infant who is felt to be at risk by the		
	nursing	g staff or Doctor		
	11. An	y infant with a birth weight of <1800 grams		
	& /or	<34 weeks must be admitted to the SNCU		
	for a m	ninimum of 24 hours.		
	12. Tra	ansfer from Neonatal ward due to need for		
	close	monitoring or any deterioration in the		
	conditi	on of the Neonate.		
	b) Adr	nission from postnatal ward to SNCU		
	The fo	llowing signs and symptoms signify a sick		
		and for admission from postnatal ward:		
	initant o	and for administrating positional ward.		
	Delave	ed or persistent respiratory distress		
		ic or cyanotic spells		
		mal behaviour or activity including recurrent		
	vomitin			
	VOIIIIIII	ng, addominal distention, lethargy,		JL

Prepared By:	Approved By:

hypotonia, Seizures Suspected sepsis Evidence of bleeding or excessively pale infants. Jaundice if it occurs before 24 hours of age or bilirubin is equal to or exceeds a level of 15 mg/dl before 48 hours or if considered to be in phototherapy range according to reference charts. Persistent hypothermia not responding to simple measures. Hypoglycaemia —severe / recurrent / nonresponding to feeds alone. c) Admission criteria in SNCU for any baby < 28 days from the community 1. Delayed cry after 5 minutes 2.Respiratory distress with Tachypnea, grunt , Chest in-drawing or central cyanosis 3. Central cyanosis or spells 4. Vomiting esp. Bile stained 5. Abdominal distension 6. Suspected sepsis but child unstable 7. Unstable Babies with congenital abnormality requiring investigation 8. Jaundice requiring Exchange transfusion 9.Neonates in shock (CRT > 3 seconds, poor skin colour , cold extremities, weak pulses and mottled skin) 10. Fits including subtle signs (refer to neonatal convulsion for details) 11. Low birth weight < 1800 gm or unstable baby. 12. Severe Asphyxia, RDS or is satisfying the above criteria of admission to SNCU. 1) Criteria for Transfer to Step Down: a. Babies whis passion to SNCU. 1) Criteria for Transfer to Step Down: a. Babies on antibiotics for completion of duration of therapy c. Low birth weight babies (< 1800 gms) who are otherwise stable (for adequate weight gain) d. Babies with jaundice requiring phototherapy but otherwise stable e. Babies admitted for any condition but are now thermo-dynamically stable.			Standard Operating Procedure	Document No:	
hypotonia, Seizures Suspected sepsis Evidence of bleeding or excessively pale infants. Jaundice if it occurs before 24 hours of age or bilirubin is equal to or exceeds a level of 15 mg/dl before 48 hours or if considered to be in phototherapy range according to reference charts. Persistent hypothermia not responding to simple measures. Hypoglycaemia —severe / recurrent / non-responding to feeds alone. c) Admission criteria in SNCU for any baby < 28 days from the community 1. Delayed cry after 5 minutes 2. Respiratory distress with Tachypnea, grunt , Chest in-drawing or central cyanosis 3. Central cyanosis or spells 4. Vomiting esp. Bile stained 5. Abdominal distension 6. Suspected sepsis but child unstable 7. Unstable Babies with congenital abnormality requiring investigation 8. Jaundice requiring Exchange transfusion 9. Neonates in shock (CRT > 3 seconds, poor skin colour , cold extremities, weak pulses and mottled skin) 10. Fits including subtle signs (refer to neonatal convulsion for details) 11. Low birth weight < 1800 gm or unstable baby. 12. Severe Asphyxia, RDS or is satisfying the above criteria of admission to SNCU. 1) Criteria for Transfer to Step Down: a. Babies whose respiratory distress is improving and no longer require oxygen supplementation to maintain saturation b. Babies on antibiotics for completion of duration of therapy c. Low birth weight babies (< 1800 gms) who are otherwise stable (for adequate weight gain) d. Babies with jaundice requiring phototherapy but otherwise stable e. Babies admitted for any condition but are now thermo-dynamically and haemo-dynamically			Sick New Born Care Unit		
Suspected sepsis  Evidence of bleeding or excessively pale infants.  Jaundice if it occurs before 24 hours of age or bilirubin is equal to or exceeds a level of 15 mg/dl before 48 hours or if considered to be in phototherapy range according to reference charts.  Persistent hypothermia not responding to simple measures.  Hypoglycaemia —severe / recurrent / nonresponding to feeds alone.  c) Admission criteria in SNCU for any baby < 28 days from the community  1. Delayed cry after 5 minutes  2. Respiratory distress with Tachypnea, grunt , Chest in-drawing or central cyanosis  3. Central cyanosis or spells  4. Vomiting esp. Bile stained  5. Abdominal distension  6. Suspected sepsis but child unstable  7. Unstable Babies with congenital abnormality requiring investigation  8. Jaundice requiring Exchange transfusion  9. Neonates in shock (CRT > 3 seconds, poor skin colour , cold extremities, weak pulses and mottled skin)  10. Fits including subtle signs (refer to neonatal convulsion for details)  11. Low birth weight < 1800 gm or unstable baby.  12. Severe Asphyxia, RDS or is satisfying the above criteria of admission to SNCU.  1) Criteria for Transfer to Step Down:  a. Babies whose respiratory distress is improving and no longer require oxygen supplementation to maintain saturation  b. Babies on antibiotics for completion of duration of therapy  c. Low birth weight babies (< 1800 gms) who are otherwise stable (for adequate weight gain)  d. Babies domitically and haemo-dynamically  e. Babies admitted for any condition but are now thermo-dynamically and haemo-dynamically				Date of Issue:	
II) Criteria for transfer to Maternity ward:	St. Ex. Ja bi be ph Pe m H. re c) an H. 2. Cl 3. 4. 5. 6. 7. re 8. 9. cc sk 10 cc sk 10 cc sk 11 12 ab 17 a. arm b. of c. ot d. ot e. th st.	uspectividend undicalirubide fore motother interested easur ypogles spond Adminy ba Dela Respiration Neon Abdo Susp Unstantial Low 2. Secove (a) Crit Babiliand no aintain Babili	ted sepsis ce of bleeding or excessively pale infants. the if it occurs before 24 hours of age or in is equal to or exceeds a level of 15 mg/dl 48 hours or if considered to be in the property angle according to reference charts. The property angle according to rectard a property and the p	Date of 1990c.	

Prepared By:	Approved By:

Version: Date of Issue		
Date of Issue		
	55	
	1	
Appr	oved By:	
	Appr	Approved By:

		Standard Operating Proced Sick New Born Care Uni			
	• Re	r collection of report. eport is received within the defined round Time from the Lab.		1 330407	
5.1.2	The di SNCU SNCU	ling continuous monitoring: octors & nurses are always prese for Bedside monitoring periodica protocols	Trea Docto	ating or / On Nursing affs.	
	The the coordinate of the coo	ne Nurse-in-charge maintains invented ne necessary equipment, drugs & consumables and other facilities required delivery.  The Nurse in-charge timely indents at itentific calculation of consumption recessary drugs & consumables.  The Nurse in-charge maintains buffer recessary drugs & consumables.  The necessary drugs & consumables.	tory for ared for ared for stock of and is tage of histration taken.		
	• In pr • Th ch Fa	dent of drugs, consumables & other epared.  nis demand is forwarded to Facility arge for approval. After approval fracility In-charge the indent is forwarded to Facility ore In-charge for issuance of the ite ems are received from Store.  ne items received are verified with received store.	in- om rded to ms.		
		Prepared By:	2	Approved By:	

		Standard Operating Proced		Document No:	
		Sick New Born Care Unit	t	Version: Date of Issue:	
	qualiappli In cacharge The Stoce The locate place The haza Afte upda Daily mair The mon avers The out p	blete specification such as quantite ty, date of manufacture, date of ecable), make etc.  se of any discrepancy, the Store I ge is informed and items are replated tails of Ok materials are entered k Register.  ok materials are stored/kept at idecion may be in store, Almirah or a ge as required.  safe storage facilities for vulneral redous or inflammable items are entered to the issue of items, the Stock Registed regularly.  y consumption record for all item attained.  inventory is managed according to the store in the issue of items are entered and inventory is managed according to the stimated requirement based age monthly or quarterly consumply physical verification of items is consciously with respect to quantitity, Expiry etc.	xpiry (as n- ced. d in entified t user ele, ensured. gister is s is o the on option. arried		
5.1.3	Docume  The start shee Disc disc!  Docume  Bed Adm Gene Disc Docume  Call Offic Trar	documentation in the Nursing ser s with the initiation of the Inpatie t and end with the making of the harge slip of the patient at the time arge of the patients.  Intation includes:  Head Ticket hission Register eral Medication Order ent Hand over register tharge Register the Register  Book for Superintendent, Medicater, Ward Master, Nursing Superinter out Register	nt case ne of	Ward In- charge	Bed Head Ticket Admission Register General Medication Order Patient Hand over register Discharge Register Death Register Call Book Transfer out Register
5.1.4	Stan to en	dard Infection Control Measures nsure prevent hospital acquired in safe work environment to service	fections		-
		Prepared By:		Approved	l By:

	Standard Operating Procedure	Document No:
	Sick New Born Care Unit	Version:
		Date of Issue:
	providers. These measures broadly includes –  Strict adherence to standard hand washing Practices  Use of personal protective equipment when handling blood, body substances, excretions and secretions  Appropriate handling of patient care equipment and soiled linen  Prevention of needle prick /sharp injuries  Environmental cleaning and spill-management  Appropriate handling of Biomedical Waste  Regular culture surveillance of infection prone	
	area like SNCU is done to insure safe patient care environment.	
5.1.5	<ul> <li>External foot wears are not allowed in the SNCU. It is mandatory to wear dedicated SNCU sleepers before entering the labour room. Aprons, Masks and caps are used by Doctors &amp; Nursing Staff is in dress. The shoe covers, masks and caps are provided to mother if she is entering in the breastfeeding room of SNCU.</li> <li>After every procedure all working surfaces are disinfected.</li> <li>Only doctor &amp; staff are allowed while performing the procedure in SNCU. Traffic in SNCU is kept minimal.</li> </ul>	
5.1.6	Diagnostic tests in SNCU- Availability of at the point of care: Serum billirubin, Plasma glucose, Serum Creatnine, Complete Blood Count, Platelet, C reactive protein, Prothrombin time, Arterial Blood Gas analysis with PH measurement analysis.	
5.1.7	Key Protocols:  1) Assessment and treatment of new borns with emergency signs  2) Triage of sick new born( in SNCU & EMERGENCY)  3) Grading and management of hypothermia  4) Expression of breast milk  5) Assisted feeding of low birth weight neonates  6) IV fluid therapy for new born  7) Management of hypoglycemia	

B .	
Prepared By:	Approved By:

		Standard Operating Proceed		Document No:	
		Sick New Born Care Un	it	Version:	
	1			Date of Issue:	
¥	nev 9) Ass diss 10) Ass 11) Ad 12) Res 13) Ma 14) Ad her 15) Ide nev 16) Ass exp 17) Ho	sessment and management of jac wborn babies sessment and management of re- tress sessment of neonatal sepsis ministration of commonly used dru- suscitation algorithm magement of newborn with seizures ministration of Dopamine in a new- modynamic compromise entifying intrauterine growth retar- w born sessing gestation of new born seasing metallic protocol eastfeeding	gs s born with		
5.1.8	SNCU It is en Fix and pro Sw inta and The of elee Ean and Pro Flo Ma trac (as Ma out  Procee mainte	enance and calibration of equipm	cabinets, ojects are ations are nnections are nnections are seek / test competent ailable in a year are intact cy drugs, fibrillator aum wall eakdown ent		
	10	gular maintenance of electronic e	Tapmon		
		Prepared By:		Approved	l By:

		ndard Operating Procedure	Document No: Version:	
	S	Sick New Born Care Unit	Date of Issue:	
	breathing circuis ensured.  The staff nurshistory sheet a that is issued to  The department department that containing their  The whole idea the equipment functioning. preventive main equipment as pof CMC/AMC.  The maintenance manuals are normally idmaintenance manuals are not knowledge and.  For all new professured that the department.  When any instantianed in register.  Preventive main based on manually approximately approximatel	trument / devices, it is in the manuals are safely kept in trument / device break down, dept. is informed and record is complaint book and breakdown intenance schedules are prepared anufacturers' recommendations wed by the Head of the id the Facility In-charge. Eventive Maintenance record is illy.		
5.1.9	longer active.  2) Baby is accepted feeds well.  3) There is adequenced consecutive day	when: lems have been resolved or no oting breast feeding or spoon nate weight gain in baby for 3	Doctor, Nurse	Discharge Summary / Discharge Register

Prepared By:	Approved By:

	Standard Operating Procedure Sick New Born Care Unit	Document No: Version:
	At the time of discharge the baby weig more than 1.5 kg.  Counselling of parents for Retinopathy Prematurity if weight < 1800 gm and es children < 32 weeks	y of
n	Date, time and day for follow up is specific nentioned and no generalization. For eg. to offer a week	
	A pre discharge physical examination inclu Veight, Head Circumference and length is dor	
	Medications are demonstrated on the dose, of duration and method of administration to moth	
	Emergency phone number of the facility is go parents.	riven
	Various problems, investigations and coluring hospital stay are properly noted.	purse
	At the time of discharge, the discharge advi- obtained from the doctor of SNCU.	ce is
t	The Nursing staff on duty explains the treat letails and the follow up of the medications he neonate has to continue even after gelischarged.	that
5.1.10	Iransportation and referral In the district hospitals with provision functional /affordable transport for neonates It is linked to a transport service that reawithin 30 minutes and transport patient referral centre. Monitored care is provided during transport Communication contact with the vehicle directly or routed through a call centre. The ambulance service is free of cost. An assured referral facility linkage is a fact which provides management of complicational including surgical emergencies and be transfusion and which agrees to provide services on a cashless basis to any pareferred from the referring facility. This	sick aches at to  t. river  cility tions blood these attent
	Prepared By:	Approved By:

	Standard Operating Procedure Sick New Born Care Unit	Document No: Version: Date of Issue:
hos arr • Th	a public hospital or an accredited private spital through a public-private partnership angement. The effort is to have a network of referral attres within one or two hours of any facility by by ding Sick New Born Care.	

#### **Reference Documents:**

- 1. Procedure for indoor management
- 2. Procedure for Infection Control
- 3. Procedure for biomedical waste management
- 4. Procedure for admission Discharge Management
- 5. State Protocol for SNCU
- 6. FBNC Manual
- 7. Standard Maternal Newborn Toolkit

Approved By:
_