



# NEONATAL REPORT DOCUMENT

## Version 1.0

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## 1. REPORTS



**Fig: Reports**

### 1.1. NICU REPORT

#### 1.1.1. Filter

- 1.1.1.1. Select the “<sup>1</sup>start date” from the datepicker
- 1.1.1.2. Eg [<sup>2</sup>01/01/2015]
- 1.1.1.3. Select the “End date” from the datepicker
- 1.1.1.4. Eg [<sup>3</sup>1/12/2015]
- 1.1.1.5. Select “Sex” from drop down list
- 1.1.1.6. Eg [Male]
- 1.1.1.7. Select “Seen by” from drop down list
- 1.1.1.8. Eg [Doctor’s Name]
- 1.1.1.9. Select “Type of Care” from drop down list
- 1.1.1.10. Eg [Intensive care]
- 1.1.1.11. Select “Status” from drop down list menu
- 1.1.1.12. Eg [Discharged]
- 1.1.1.13. Click on “Filter” button
- 1.1.1.14. Following print preview page should display and check the steps accordingly
  - 1.1.1.14.1. Mr No, Name, wks(Gestation), B.wt, Sex, DOB these values should be generated from “Baby Registration” Module i.e., Registration -> Baby Registration

<sup>1</sup> “” :- Module name

<sup>2</sup> [ :- Examples

- 1.1.1.14.2. DOA(Admission date) value should be generated from “NICU Admission” module i.e., NICU Admission -> Admission Form -> Basics -> Admission date
- 1.1.1.14.3. DOL, Status, D.Wt, DOD values should be generated from “NICU Admission” module i.e., NICU Admission -> NICU Discharge details -> Discharge details
- 1.1.1.14.4. These values should be displayed in table format

## 1.2. OP REPORT

### 1.2.1. Filter

- 1.2.1.1. Select the “start date” from the datepicker
- 1.2.1.2. Eg [01/01/2015]
- 1.2.1.3. Select the “End date” from the datepicker
- 1.2.1.4. Eg [31/12/2015]
- 1.2.1.5. Select “Sex” from drop down list
- 1.2.1.6. Eg [Male]
- 1.2.1.7. Select “Seen by” from drop down list
- 1.2.1.8. Eg [Doctor’s Name]
- 1.2.1.9. Select “Outcome” from drop down menu
- 1.2.1.10. Eg [Sent home]
- 1.2.1.11. Select “Appointment type” from drop down list
- 1.2.1.12. Eg [New Appointment]
- 1.2.1.13. Click on “Filter” button
- 1.2.1.14. Following print preview page should display and check the steps accordingly
  - 1.2.1.14.1. Date value should be generated from “OP Registration” module i.e., OP Registration -> OP Date
  - 1.2.1.14.2. Mr No, Name, wks(Gestation), Wt(birth wt), Sex, DOB these values should be generated from “Baby Registration” Module i.e., Registration -> Baby Registration
  - 1.2.1.14.3. OFC, L(Length) values should be generated from “OP Registration” module i.e., OP Registration -> Baby Details
  - 1.2.1.14.4. Type, Outcome value should be generated from “OP Registration” module i.e., OP Registration -> Medical details
  - 1.2.1.14.5. These values should be displayed in table format

## 1.3. Pediatric Report

## 1.4. Newborn Report

### 1.4.1. Filter

- 1.4.1.1. Select the “start date” from the datepicker
- 1.4.1.2. Eg [01/01/2015]
- 1.4.1.3. Select the “End date” from the datepicker
- 1.4.1.4. Eg [31/12/2015]
- 1.4.1.5. Select “Sex” from drop down list
- 1.4.1.6. Eg [Male]
- 1.4.1.7. Select “Seen by” from drop down list
- 1.4.1.8. Eg [Doctor’s Name]
- 1.4.1.9. Click on “Filter” button

- 1.4.1.10. Following print preview page should display and check the steps accordingly
- 1.4.1.11. Mr No, Name, Sex, DOB values should be generated from “Baby Registration” Module i.e., Registration -> Baby Registration
- 1.4.1.12. Status values should be generated from “Postnatal Admission” i.e., Postnatal Admission -> Postnatal Discharge Details -> Discharge Details -> Newborn Screen
- 1.4.1.13. These values should be displayed in table format

## 1.5. Culture Report

- 1.5.1. Select the “start date” from the datepicker
- 1.5.2. Eg [01/01/2015]
- 1.5.3. Select the “End date” from the datepicker
- 1.5.4. Eg [31/12/2015]
- 1.5.5. Select “Sex” from drop down list
- 1.5.6. Eg [Male]
- 1.5.7. Select “Seen by” from drop down list
- 1.5.8. Eg [Doctor’s Name]
- 1.5.9. Select Specimen from drop down list
- 1.5.10. Eg [Blood]
- 1.5.11. Select Isolate from drop down list
- 1.5.12. Eg [CONS]
- 1.5.13. Click on “Filter” button
- 1.5.14. Following print preview page should display and check the steps accordingly
- 1.5.15. Mr No, Name, wks(Gestation), Wt(birth wt), Sex, DOB values should be generated from “Baby Registration” Module i.e., Registration -> Baby Registration
- 1.5.16. Date of Collection, Nature of Specimen, Isolate values should be generated from “Culture Registry” Module i.e., Tests -> Culture Registry -> Basics
- 1.5.17. These values should be displayed in table format

## 1.6. Live Birth Report

- 1.6.1. Select the “start date” from the datepicker
- 1.6.2. Eg [01/01/2015]
- 1.6.3. Select the “End date” from the datepicker
- 1.6.4. Eg [31/12/2015]
- 1.6.5. Select “Sex” from drop down list
- 1.6.6. Eg [Male]
- 1.6.7. Select “Seen by” from drop down list
- 1.6.8. Eg [Doctor’s Name]
- 1.6.9. Select Status from drop down menu
- 1.6.10. Eg [Inpatient]
- 1.6.11. Click on “Filter” button
- 1.6.12. Following print preview page should display and check the steps accordingly
- 1.6.13. Mr No, Name, wks(Gestation), Wt(birth wt), Sex, DOB values should be generated from “Baby Registration” Module i.e., Registration -> Baby Registration

- 1.6.14. Conception value should be generated from “Neonatal Proforma” i.e., Neonatal Proforma -> Admission Form -> Pregnancy
- 1.6.15. Mode of Delivery value should be generated from “Neonatal Proforma” i.e., Neonatal Proforma -> Admission Form -> Delivery
- 1.6.16. D.Wt, DOD values should be generated from “NICU Admission” module i.e., NICU Admission -> NICU Discharge details -> Discharge details
- 1.6.17. Status values should be generated from “Postnatal Admission” i.e., Postnatal Admission -> Postnatal Discharge Details -> Discharge Details -> Newborn Screen
- 1.6.18. These values should be displayed in table format

## 1.7. Baby Tag Printing

### 1.8. Annual Report

- 1.8.1. Select the “start date” from the datepicker
- 1.8.2. Eg [01/01/2015]
- 1.8.3. Select the “End date” from the datepicker
- 1.8.4. Eg [31/12/2015]
- 1.8.5. **Period of Comparison Start date**
- 1.8.6. Select the “start date” from the datepicker
- 1.8.7. Eg [01/01/2015]
- 1.8.8. **Period of Comparison End date**
- 1.8.9. Select the “End date” from the datepicker
- 1.8.10. Eg [31/12/2015]
- 1.8.11. Period of Comparison is to compare two months value or between the selected date
- 1.8.12. If user requires to add more comparison date, then click on “Add More” button
- 1.8.13. Enter the “Presented by” Name i.e., The person who is likely generating the report
- 1.8.14. Click on “Print” button
- 1.8.15. Following print preview page should display and check the steps accordingly
  - 1.8.15.1. Following CONTENTS – LIST OF TABLES should display
  - 1.8.15.2. Table 1: Total Live Births
  - 1.8.15.3. Table 2: Sex Distribution
  - 1.8.15.4. Table 3: Mode Of Conception
  - 1.8.15.5. Table 4: Mode Of Delivery
  - 1.8.15.6. Table 5: Gestation At Birth
  - 1.8.15.7. Table 6: Birth Weight Distribution
  - 1.8.15.8. Table 7: NICU Admissions
  - 1.8.15.9. Table 8: NICU Admissions Category
  - 1.8.15.10. Table 9: Patient-Days Of NICU Admissions
  - 1.8.15.11. Table 10: Admissions By Gestation
  - 1.8.15.12. Table 11: Admissions By Birth Weight
  - 1.8.15.13. Table 12: Chronic Lung Disease
  - 1.8.15.14. Table 13: Types Of Respiratory Therapy
  - 1.8.15.15. Table 14: Indications For Surfactant Therapy

- 1.8.15.16.** Table 15: Cardiovascular Morbidites
- 1.8.15.17.** Table 16: Gastrointestinal Morbidity
- 1.8.15.18.** Table 17: Retinopathy Of Prematurity
- 1.8.15.19.** Table 18: Sepsis Organisms In Blood
- 1.8.15.20.** Table 19: Survival To Discharge By Gestation
- 1.8.15.21.** Table 20: Survival To Discharge By Birth Weight
- 1.8.15.22.** Table 21: Characteristics Of Babies Who Died
- 1.8.15.23.** Table 22: Procedures Performed
- 1.8.15.24.** Table 23: Outside Referrals By Gestation

### 1.8.16. Table 1: Total Live Births

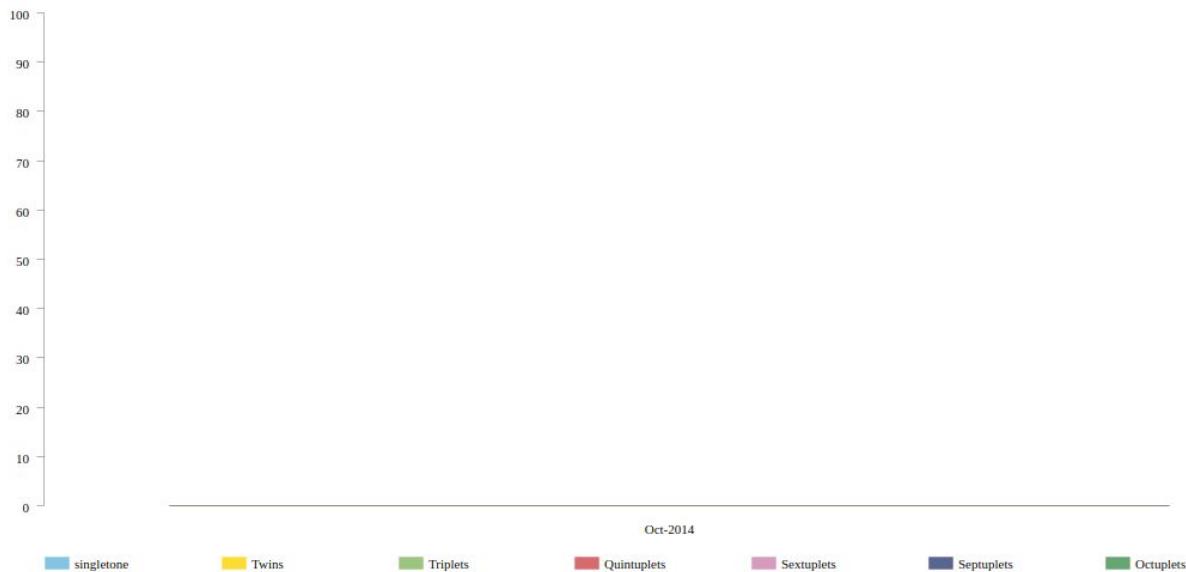
The screenshot shows the Neonatal software interface. The top navigation bar includes 'Neonatal', 'Dashboard', 'Masters', 'Settings', and a user account. The left sidebar has a dark background with white text and icons, listing various modules: REGISTRATION, Mother Registration, Baby Registration (highlighted with a red arrow), NEONATE - BASIC ENTRY FOR..., NICU ADMISSION, NURSE DAILY ENTRY FORM, POSTNATAL ADMISSION, OP REGISTRATION, REPORTS, TESTS, CALCULATORS, and DELETE APPROVALS. The main content area is titled 'Baby Registration > Edit'. It contains fields for Mr No (123456789B), Baby Name (B/O Test Test), DOB (26-02-2018), TOB (08:01 AM), Birth Status (Inborn), Birth Weight (1500 grams / 1.5 kilograms), Baby's Blood Group (AB Negative), Neonatal Consultant (Duty Doctor), Paediatric Surgeon (Not Applicable), and multiple dropdowns for Multiple Pregnancy (Yes) and Multiple Pregnancy Type (Twins). A red arrow also points to the 'Multiple Pregnancy Type' dropdown.

**Fig: Pregnancy Type**

- 1.8.16.1.** Singleton, Twins, Triplets, Quadruplets, Quintuplets, Sextuplets, Septuplets, Octuplets should be generated from “Baby Registration” i.e., Registration -> Baby Registration -> Select Multiple pregnancy (Yes) -> Select Multiple Pregnancy Type
- 1.8.16.2.** Refer Fig: Pregnancy Type
- 1.8.16.3.** Live Birth table data will be generated based on the multiple pregnancy type entries from “Baby registration”
- 1.8.16.4.** Eg [If there are 10 Singleton entries in the database, then in Total Live Births table, total value of singleton entries (10) should display under Singleton]
- 1.8.16.5.** Refer **Fig: Table 1: Total Live Births**

**Table 1: Total Live Births (Applies to inborn babies only)**

Month	Singleton	Twins	Triplets	Quadruplets	Quintuplets	Sextuplets	Sextuplets	Octuplets	Total
Oct-2014	0	0	0	0	0	0	0	0	75

**Figure 1: Total Live Births (Applies to inborn babies only)****Fig: Table 1: Total Live Births****1.8.17. Table 2: Sex Distribution**

- 1.8.17.1.** Male, Female, Indeterminate should be generated from “Baby Registration” i.e., Registration -> Baby Registration -> Sex
- 1.8.17.2.** Refer Fig: Sex
- 1.8.17.3.** Sex Distribution table data will be generated based on the Sex entries from “Baby registration”

The screenshot shows the 'Baby Registration' page in the Neonatal software. The left sidebar has a dark background with white icons and text. The 'Baby Registration' option is highlighted with a red arrow. Another red arrow points to the 'Sex:' dropdown menu at the bottom of the sidebar, which is set to 'Male'. The main form contains fields for Mr No, Baby Name, DOB, TOB, Birth Status, Birth Weight, Baby's Blood Group, Neonatal Consultant, and Paediatric Surgeon.

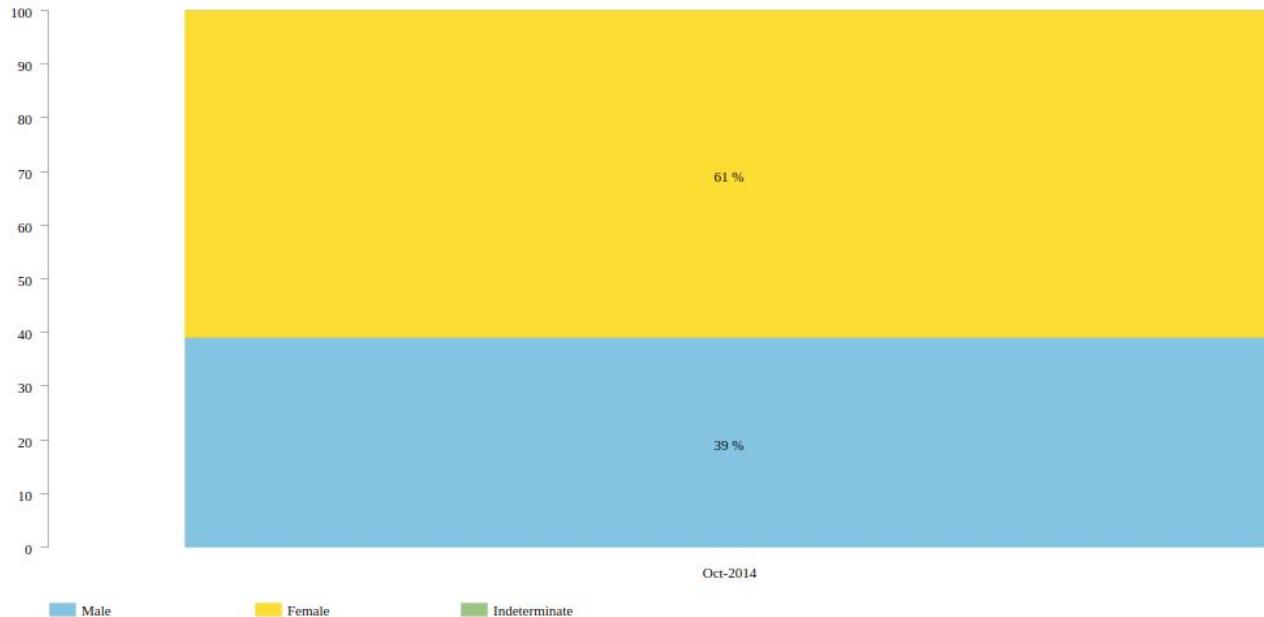
Mr No:	123456789B		
Baby Name:	B/O Test Test		
DOB:	26-02-2018		
TOB:	08	01	AM
Multiple Pregnancy:	Yes		
Multiple Pregnancy Type:	Twins		
No. of babies admitted:			
Birth Order:	--Select--		
Sex:	Male		

**Fig: Sex**

- 1.8.17.4.** Eg [If there are 10 Male entries in the database, then in Sex Distribution table, total value of male entries (10) should display under male]
- 1.8.17.5.** Refer **Fig: Table 2: Sex Distribution**

**Table 2: Sex Distribution** (Applies to inborn babies only)

Month	Male	Female	Indeterminate
Oct-2014	29 (39 %)	46 (61 %)	0 (0 %)

**Figure 2: Sex Distribution** (Applies to inborn babies only)**Fig: Table 2: Sex Distribution****1.8.18. Table 3: Mode Of Conception**

- 1.8.18.1.** Spontaneous, Medical ART, ART should be generated from “Neonatal Proforma” i.e., Neonatal Proforma -> Admission Form -> Pregnancy -> Conception
- 1.8.18.2.** Refer Fig: Conception
- 1.8.18.3.** IVF and ICSI should be generated from “Type of ART” i.e., Select any one Medical ART or ART from conception drop down menu, Type of ART drop down displays
- 1.8.18.4.** Refer Fig: IVF and ICSI

Dashboard > Neonatal Proforma > Edit For B/O vimala sampath (Jeevaneka ) 1400005641

Baby Details Parental Details Obstetric History Pregnancy Pregnancy Contd Labour Delivery APGAR Resuscitation Details

Essential Details New Born Examination

Conception:

- N/A
- N/A**
- Not Known
- Spontaneous
- Medical ART
- ART

EDD by USG:

14-11-2014

EDD by Dates:

Mother's Blood Group:

O Negative

HIV:

Non-reactive      Reactive      Unknown

Booked: Yes

Place of Booking:

Supervised: Yes

Place of Supervision:

Womens Center

Adjusted Risk for Trisomies available:

No

Other Investigations:

Fig: Conception

Dashboard > Neonatal Proforma > Edit For B/O vimala sampath (Jeevaneka ) 1400005641

Baby Details Parental Details Obstetric History Pregnancy Pregnancy Contd Labour Delivery APGAR Resuscitation Details

Essential Details New Born Examination

Conception:

**ART**

Type of ART:

- ICSI
- Not Known
- SO
- CC10**
- CC50
- CC100
- IUI
- SO/IUI
- IVF
- ICSI
- ICSI - DEP
- ICSI - DOP
- ICSI - Donor Sperm
- GIFT
- ZIFT

14-11-2014

EDD by Dates:

Mother's Blood Group:

O Negative

Booked: Yes

Place of Booking:

Supervised: Yes

Place of Supervision:

Womens Center

Adjusted Risk for Trisomies available:

No

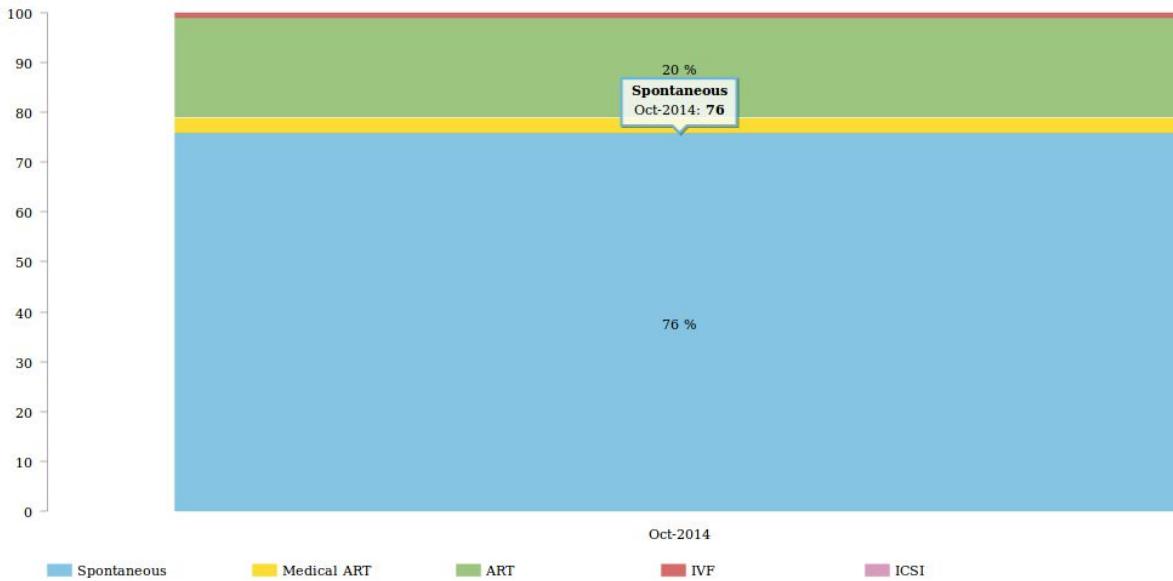
Other Investigations:

Fig: IVF and ICSI

- 1.8.18.5. Mode of Conception table data will be generated based on the entries from “Conception” and “Type of ART” drop down menu in “Pregnancy”

**Table 3: Mode Of Conception** (Applies to inborn babies only)

Month	Spontaneous	Medical ART	ART	IVF	ICSI
Oct-2014	57 (76 %)	2 (3 %)	15 (20 %)	4 (5 %)	N/A (N/A %)

**Figure 3: Mode Of Conception** (Applies to inborn babies only)**Fig: Table 3: Mode Of Conception**

- 1.8.18.6.** Eg [If there are 10 Spontaneous entries in the database, then in Mode of Conception table, total value of male entries (10) should display under male]
- 1.8.18.7.** The table values should also calculate the percentage and display
- 1.8.18.8.** Refer **Fig: Table 3: Mode Of Conception**

#### **1.8.19. Table 4: Mode Of Delivery**

- 1.8.19.1.** Vaginal, Cesarean Section, Instrumental(forceps + ventouse) should be generate from “Neonatal Proforma” i.e., Neonatal Proforma -> Admission Form -> Delivery -> Mode of Delivery
- 1.8.19.2.** Refer Fig: Mode of Delivery

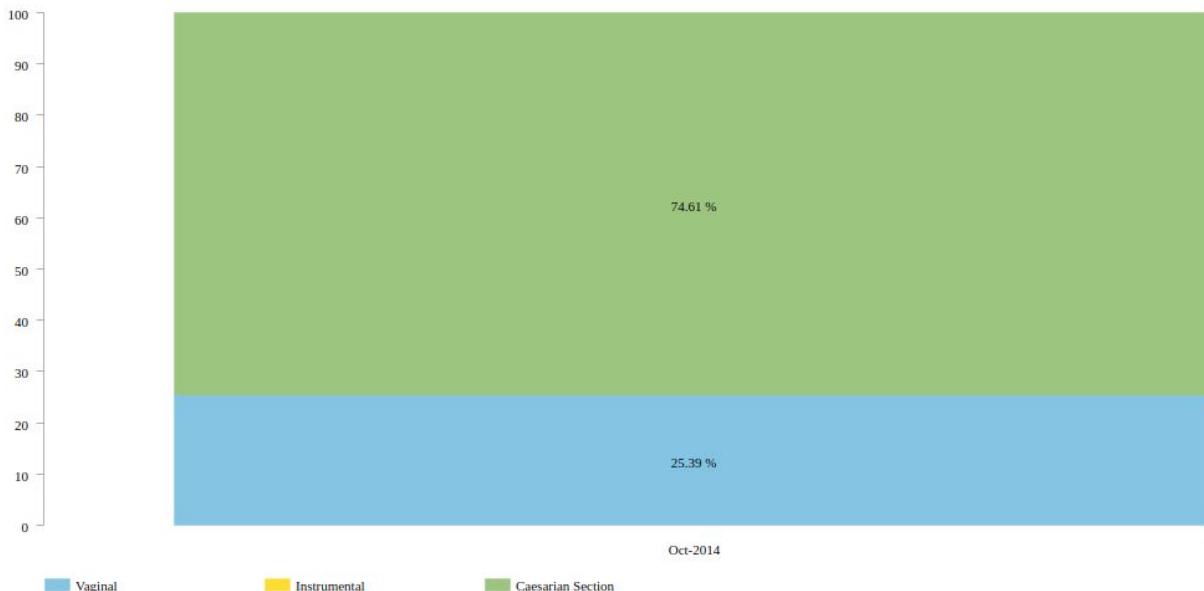
The screenshot shows the Neonatal software interface. The top navigation bar includes tabs for Dashboard, Masters, Settings, and a user account. Below the navigation bar, the main content area has a left sidebar with links for Registration, Neonate - Basic Entry Form, Admission Form, NICU Admission, Nurse Daily Entry Form, Postnatal Admission, OP Registration, Reports, and Tests. The main content area is titled 'Edit For B/O vimala sampath (Jeevaneka) 1400005641'. It displays sections for Baby Details, Parental Details, Obstetric History, Pregnancy, Pregnancy Contd, Labour, Delivery (which is selected and highlighted in blue), APGAR, and Resuscitation Details. Under the 'Labour' section, there are tabs for Essential Details and New Born Examination. The 'Delivery' section contains fields for Mode Of Delivery (with 'Elective Caesarian' selected), Type of Anesthesia (with Spinal selected), and Apgars (1min: 9, 5min: 10, 10min: 10).

**Fig: Mode of Delivery**

- 1.8.19.3.** Mode of Delivery table data will be generated based on the entries from “Mode of Delivery” drop down menu in “Delivery” module
- 1.8.19.4.** Eg [If there are 10 Vaginal entries in the database, then in Mode of Delivery table, total value of vaginal entries (10) should display under Vaginal]

Table 4: Mode Of Delivery (Applies to inborn babies only)

Month	Vaginal	Caesarian Section	Instrumental(forcesps + ventouse)
Oct-2014	16 (25.39 %)	47 (74.61 %)	0 (0 %)

Figure 4: Mode Of Delivery (Applies to inborn babies only)**Fig: Table 4: Mode Of Delivery**

**1.8.19.5.** The table values should also calculate the percentage and display

**1.8.19.6.** Refer Fig: Table 4: Mode Of Delivery

#### 1.8.20. Table 5: Gestation At Birth

**1.8.20.1.** Gestation (Weeks) should be generated from “Baby Registration” i.e., Registration -> Baby Registration -> Gestation weeks

**1.8.20.2.** Refer Fig: Gestation

The screenshot shows the 'Neonatal' software interface. The left sidebar has a dark background with white text and icons. It includes links for REGISTRATION, Mother Registration, Baby Registration (highlighted with a red arrow), NEONATE - BASIC ENTRY FOR..., NICU ADMISSION, NURSE DAILY ENTRY FORM, POSTNATAL ADMISSION, OP REGISTRATION, REPORTS, TESTS, CALCULATORS, and DELETE APPROVALS. The main content area is titled 'Baby Registration > Edit'. It contains fields for Mr No: (123456789B), Baby Name: (B/O Test Test), Birth Status: (Inborn), DOB: (26-02-2018), Birth Weight (in grams) (1500), Birth Weight (in kilograms) (1.5), Baby's Blood Group: (AB Negative), TOB: (08, 01, AM), Multiple Pregnancy: (Yes), Multiple Pregnancy Type: (Twins), No. of babies admitted: (empty), Neonatal Consultant: (Duty Doctor), Paediatric Surgeon: (Not Applicable), Birth Order: (empty), Sex: (Male), and Gestation: (Weeks: 39, Days: 5). A red arrow points to the 'Baby Registration' link in the sidebar, and another red arrow points to the 'Weeks' input field in the gestation section.

**Fig: Gestation**

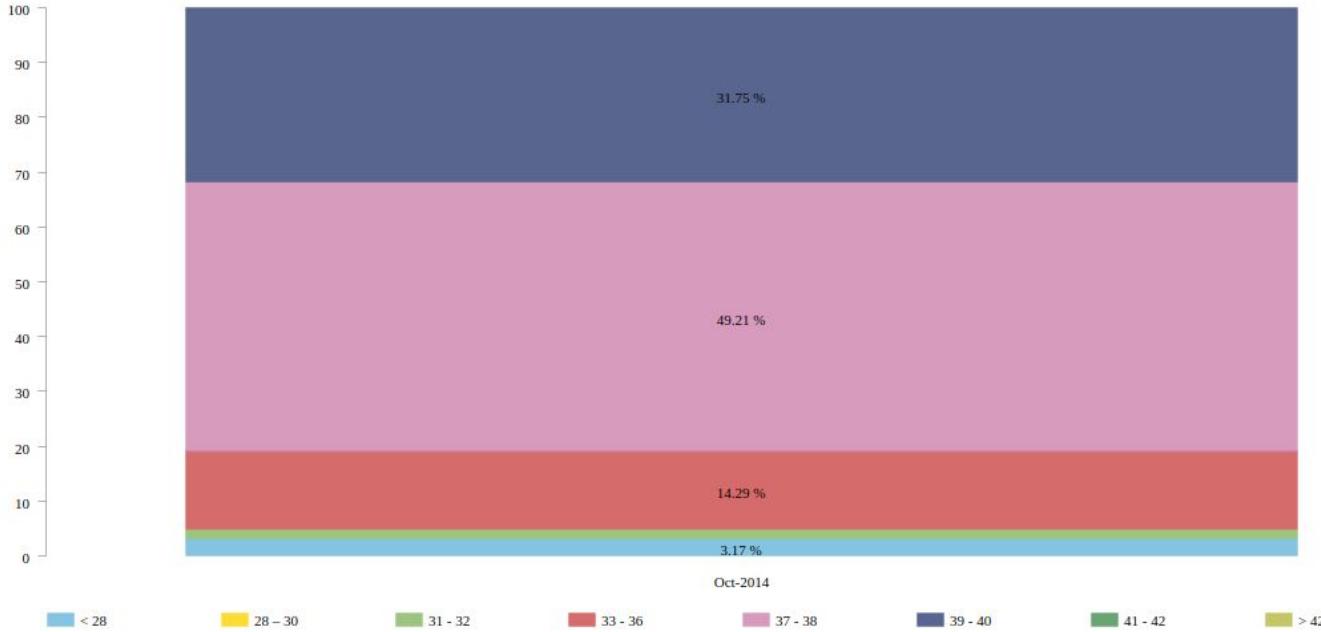
**1.8.20.3.** The Gestation values would be from 23 to 43

**1.8.20.4.** Gestation at birth table data will be generated based on the Gestation entries from “Baby Registration”

**1.8.20.5.** Eg [If there are 10 data entries from weeks 28 - 30 in database, then in Gestation at birth table, total value of weeks(10) Should display]

**Table 5: Gestation At Birth** (Applies to inborn babies only)

Month	< 28	28 – 30	31 - 32	33 - 36	37 - 38	39 - 40	41 - 42	> 42
Oct-2014	2 (3.17 %)	0 (0.00 %)	1 (1.59 %)	9 (14.29 %)	31 (49.21 %)	20 (31.75 %)	0 (0.00 %)	0 (0.00 %)

**Figure 5: Gestation At Birth** (Applies to inborn babies only)**Fig: Table 5: Gestation At Birth**

**1.8.20.6.** The table values should also calculate the percentage and display

**1.8.20.7.** Refer **Fig: Table 5: Gestation At Birth**

### 1.8.21. **Table 6: Birth Weight Distribution**

**1.8.21.1.** Birth Weight should be generated from “Baby Registration” i.e., Registration -> Baby Registration -> Birth Weight

The screenshot shows the Neonatal software interface with the following details:

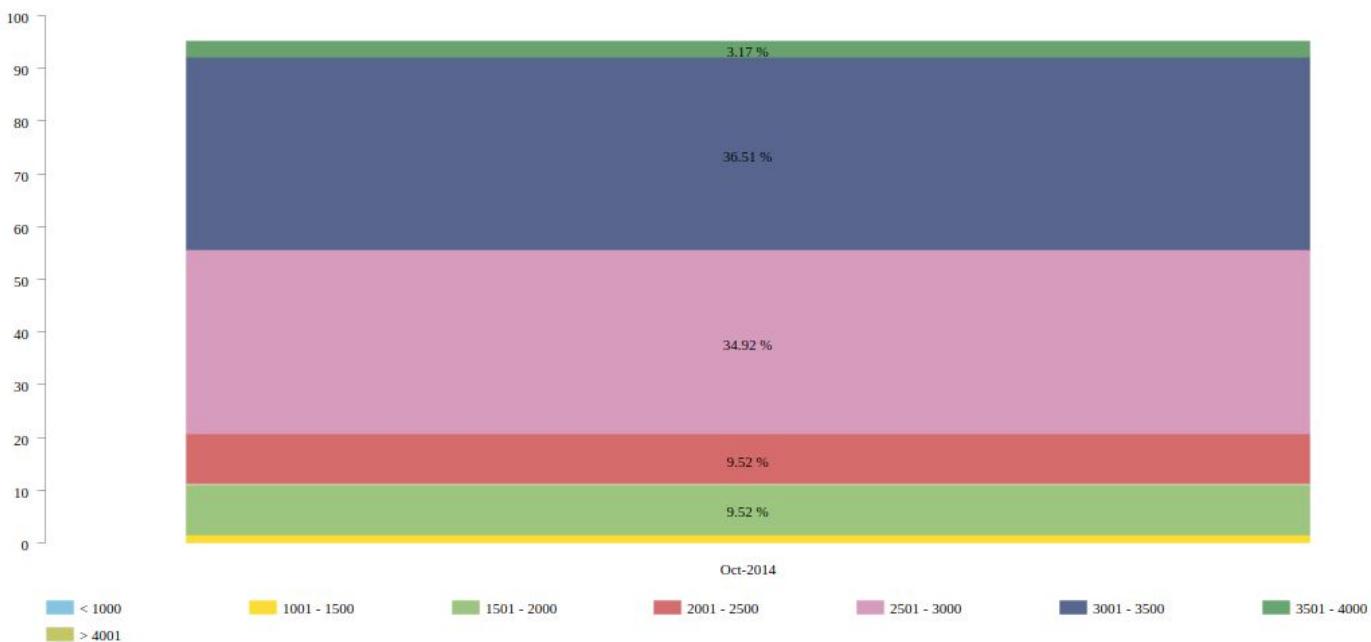
- Left Sidebar:** Includes options like REGISTRATION, Mother Registration, Baby Registration, NEONATE - BASIC ENTRY FOR..., NICU ADMISSION, and NURSE DAILY ENTRY FORM.
- Top Bar:** Shows 'Neonatal', 'Dashboard', 'Masters', 'Settings', and a user profile for 'manikandan'.
- Current Screen:** 'Baby Registration > Edit'. Fields include:
  - Mr No: [redacted]
  - Baby Name: [redacted] (highlighted by a red arrow)
  - DOB: 13-10-2014
  - TOB: N/A, N/A, N/A
  - Birth Status: Inborn
  - Birth Weight (in grams) (highlighted by a red arrow): 2700 (in kilograms) 2.7
  - Baby's Blood Group: Not Known

**Fig: Birth Weight**

- 1.8.21.2.** Refer Fig: Birth Weight
- 1.8.21.3.** The birth weight values would be in 4 digit whole number
- 1.8.21.4.** Birth Weight Distribution table data will be generated based on the “Birth Weight” entries from “Baby Registration”

**Table 6: Birth Weight Distribution** (Applies to inborn babies only)

Month	< 1000	1001 – 1500	1501 - 2000	2001 - 2500	2501 - 3000	3001 - 3500	3501 - 4000	≥ 4001
Oct-2014	2 (3.17 %)	1 (1.59 %)	6 (9.52 %)	6 (9.52 %)	22 (34.92 %)	23 (36.51 %)	2 (3.17 %)	1 (1.59 %)

**Figure 6: Birth Weight Distribution** (Applies to inborn babies only)**Fig: Table 6: Birth Weight Distribution**

- 1.8.21.5.** Eg [If there are 2 entries in 1250, 5 entries in 1300, then the value(7) should display in range 1001 to 1500 in Birth Weight Distribution]
- 1.8.21.6.** The table values should also calculate the percentage and display
- 1.8.21.7.** Refer **Fig: Table 6: Birth Weight Distribution**

## 1.8.22. **Table 7: NICU Admissions**

- 1.8.22.1.** Birth Status should be generated from “Baby Registration” i.e., Registration -> Baby Registration -> Birth Status
- 1.8.22.2.** Refer Fig: Birth Status

Dashboard > Baby Registration > Edit

Mr No: [REDACTED]

Baby Name: [REDACTED]

DOB: 13-10-2014

TOB: N/A N/A N/A

Birth Status: Inborn

Birth Weight (in grams) (in kilograms): 2700 2.7

Baby's Blood Group: Not Known

**Fig: Birth Status**

- 1.8.22.3.** NICU Admission table data will be generated based on the entries from “Birth Status” drop down menu in “Baby Registration”
- 1.8.22.4.** Eg [If the birth status is Inborn, then total no of Inborn(Count) in database should display in NICU Admission table]

**Table 7: NICU Admissions (Applies to inborn & outborn babies.)**

Month	Inborn	Outborn	Total
Oct-2014	18 (100 %)	0 (0 %)	18 (100 %)

**Figure 7: NICU Admissions (Applies to inborn & outborn babies.)****Fig: Table 7: NICU Admissions**

- 1.8.22.5.** The table values should also calculate the percentage and display  
**1.8.22.6.** Refer **Fig: Table 7: NICU Admissions**

**1.8.23. Table 8: NICU Admissions Category**

- 1.8.23.1.** Intensive Care, Special Care, High Dependency Care should be generated from “NICU Admission” i.e., NICU admission -> Admission Form -> Basics -> Type of Care  
**1.8.23.2.** Refer Fig Type of Care)  
**1.8.23.3.** NICU Admission Category table data will be generated based on the entries from “Type of Care” drop down menu in “NICU Admission”

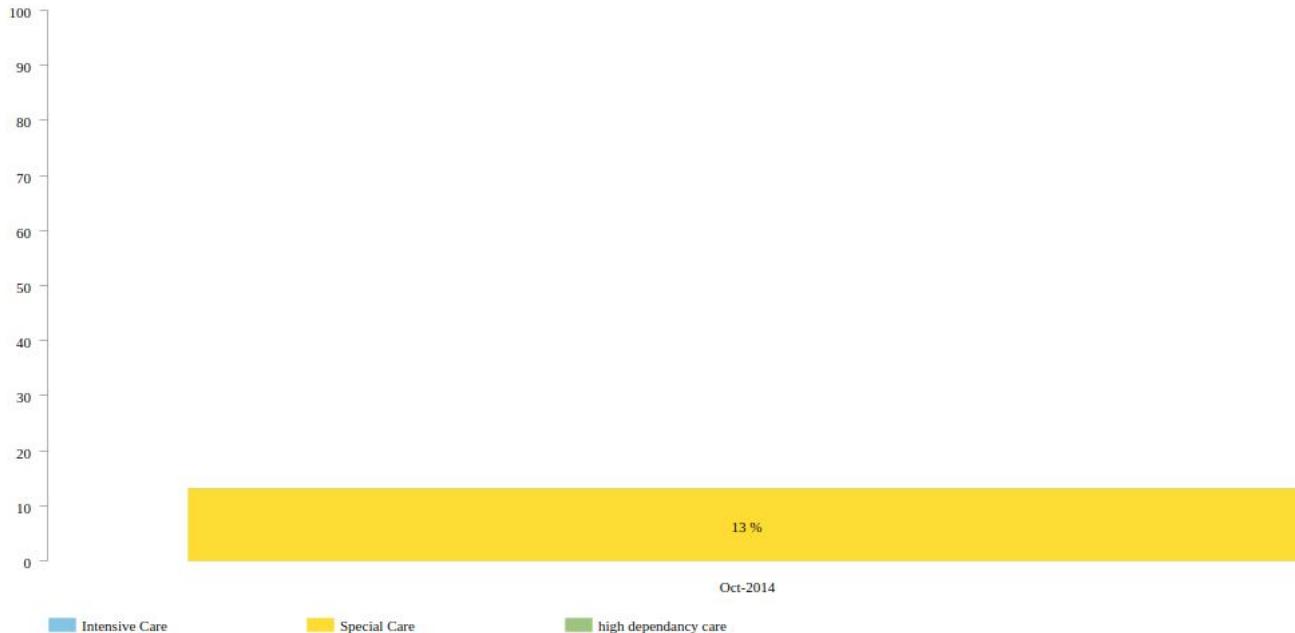
The screenshot shows the 'Neonatal' software interface. The left sidebar contains various menu items: REGISTRATION, NEONATE - BASIC ENTRY FOR..., NICU ADMISSION (which is highlighted in blue), Admission Form, Doctors daily entry form, NICU Discharge Details, Discharge Summary, NURSE DAILY ENTRY FORM, POSTNATAL ADMISSION, OP REGISTRATION, and REPORTS. The main content area is titled 'Dashboard > NICU Admission'. It includes tabs for Basics, Medical History, Pregnancy, Baby Details, Admission Details, Procedures, CRIB II, SNAPPE II, and Diagnosis. Under 'Basics', there are fields for Baby Name, Mr No, DOB (05-10-2014), Birth Weight (2254), Birth Status (Inborn), Gestation (Weeks: 33, Days: 0), Admission Time (1:26 PM), Admission Date (05-10-2014), Type Of Care (dropdown menu with 'Intensive Care' selected), Admission Weight (2250), Age On Admission in days (1), and Surgeon. Two red arrows point to the 'NICU ADMISSION' button in the sidebar and the 'Type Of Care' dropdown menu.

**Fig: Type of Care**

- 1.8.23.4.** Eg [If the Type of Care is Intensive care, then total no of Intensive care(Count) Should display under Intensive Care in NICU Admission Category table]  
**1.8.23.5.** The table values should also calculate the percentage and display  
**1.8.23.6.** Refer **Fig: Table 8: NICU Admissions Category**

**Table 8: NICU Admissions Category** (Applies to inborn & outborn babies.)

Month	Intensive Care	Special Care	High Dependency Care	Total
Oct-2014	0 (0 %)	2 (13 %)	0 (0 %)	2 (13 %)

**Figure 8: NICU Admissions Category** (Applies to inborn & outborn babies.)**Fig: Table 8: NICU Admissions Category****1.8.24. Table 9: Patient-Days of NICU Admissions**

**1.8.24.1.** Patient Days is calculated based on the day care sheets entered in “NICU Admission” i.e., NICU Admission -> Doctors Daily Entry Form -> Admission -> Daycare

The screenshot shows the 'Neonatal' software interface. The left sidebar has menu items: REGISTRATION, NEONATE - BASIC ENTRY FOR..., NICU ADMISSION, Admission Form, Doctors daily entry form (with a red arrow pointing to it), and NICU Discharge Details. The main area shows a 'Daycare Admission History' table with one record:

S.No.	Admissions	Ip Number	Date of Admission	Date of Discharge
1	Admission 1		2014-10-05	2014-10-19

At the bottom, it says 'Showing 1 to 1 of 1 entries'.

**Fig: Doctors Daily Entry Form**

**1.8.24.2.** Eg [Daily entries are entered in daycare sheet, then in Patient-Days of NICU Admission total no of Daycare sheets should display]

**1.8.24.3.** Refer **Fig: Daycare sheet** for entries

The screenshot shows a web application interface for managing daycare entries. At the top, there's a navigation bar with links: Dashboard > Daycare > Admission History of [redacted] > Admission 1. Below the navigation is a header bar with the title "Daycare" and a "Create New" button. A dropdown menu for "records per page" is set to 100. To the right is a search bar with a magnifying glass icon. The main content area is a table with the following columns: S.No., Days, Date, Edit, Delete, Preview, and Print. The table contains 10 rows, each representing a day from October 6 to October 15, 2014. Each row includes edit and delete links. The "Preview" and "Print" links are represented by icons. At the bottom left of the table area, it says "Showing 1 to 10 of 10 entries". At the bottom right, there are navigation buttons for "Previous", a page number "1" (which is highlighted in blue), and "Next".

S.No.	Days	Date	Edit	Delete	Preview	Print
1	Day 1	2014-10-06	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">View</a>	<a href="#">Print</a>
2	Day 2	2014-10-07	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">View</a>	<a href="#">Print</a>
3	Day 3	2014-10-08	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">View</a>	<a href="#">Print</a>
4	Day 4	2014-10-09	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">View</a>	<a href="#">Print</a>
5	Day 5	2014-10-10	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">View</a>	<a href="#">Print</a>
6	Day 6	2014-10-11	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">View</a>	<a href="#">Print</a>
7	Day 7	2014-10-12	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">View</a>	<a href="#">Print</a>
8	Day 8	2014-10-13	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">View</a>	<a href="#">Print</a>
9	Day 9	2014-10-14	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">View</a>	<a href="#">Print</a>
10	Day 10	2014-10-15	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">View</a>	<a href="#">Print</a>

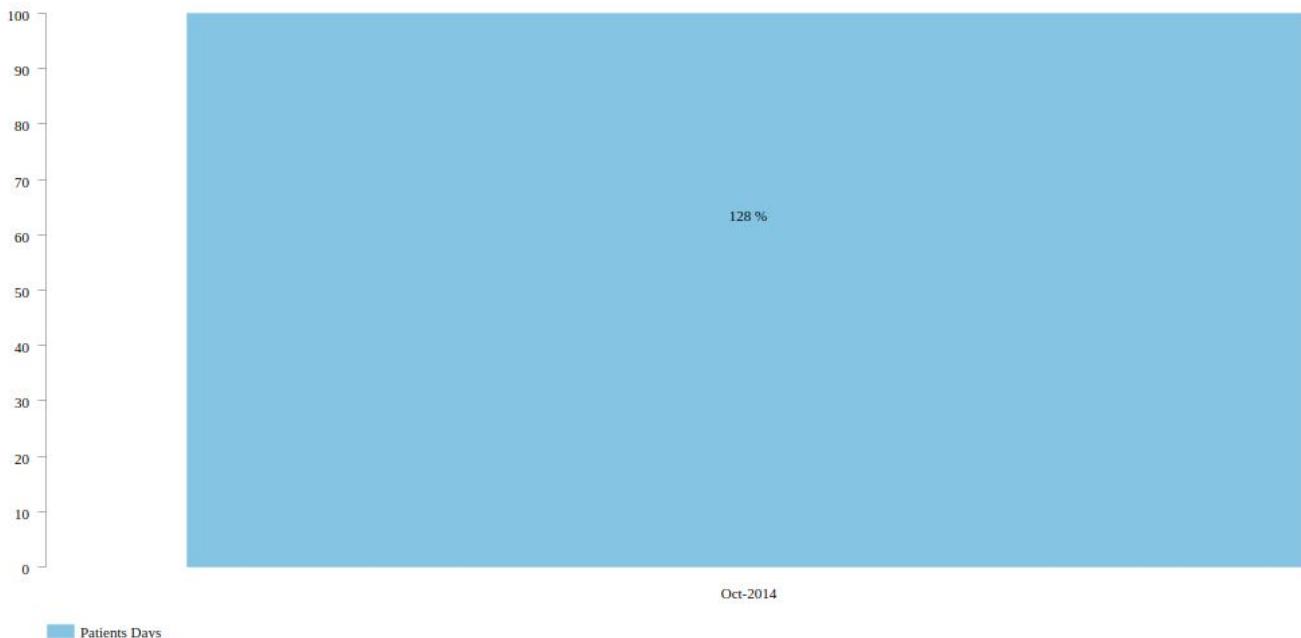
**Fig: Daycare sheet**

**1.8.24.4.** The table values should also calculate the percentage and display

**1.8.24.5.** Refer **Fig: Table 9: Patient-Days of NICU Admissions**

**Table 9 : Patient-Days Of NICU Admissions** (Applies to inborn & outborn babies.)

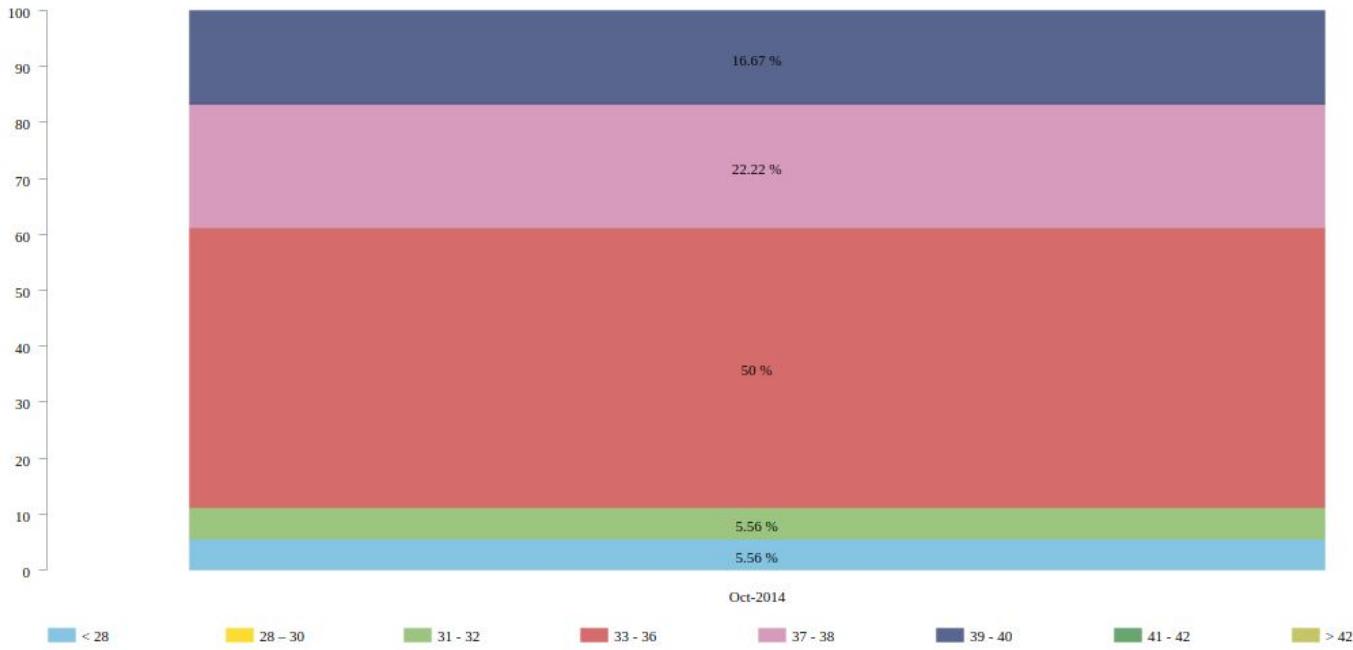
Month	Patient Days
Oct-2014	128

**Figure 9: Patient-Days Of NICU Admissions** (Applies to inborn & outborn babies.)**Fig: Table 9: Patient-Days of NICU Admissions****1.8.25. Table 10: Admissions by Gestation**

- 1.8.25.1.** Gestation (Weeks) should be generated from “Baby Registration” i.e., Registration -> Baby Registration -> Gestation weeks
- 1.8.25.2.** Refer **Table: 5 Fig: Gestation**
- 1.8.25.3.** The Gestation values would be from 23 to 43
- 1.8.25.4.** Admission by Gestation table data will be generated based on the “Gestation Weeks” entries from “Baby Registration” and should follow the condition below(**1.8.25.5**)
- 1.8.25.5.** Based on the condition that is Patient must be admitted in NICU Admission
- 1.8.25.6.** Eg [If there are 10 entries from weeks 28 - 30 in database, then in Gestation at birth table, total value of weeks(10) Should display]
- 1.8.25.7.** The table values should also calculate the percentage and display
- 1.8.25.8.** Refer **Fig: Table 10: Admissions By Gestation**

**Table 10: Admissions By Gestation**

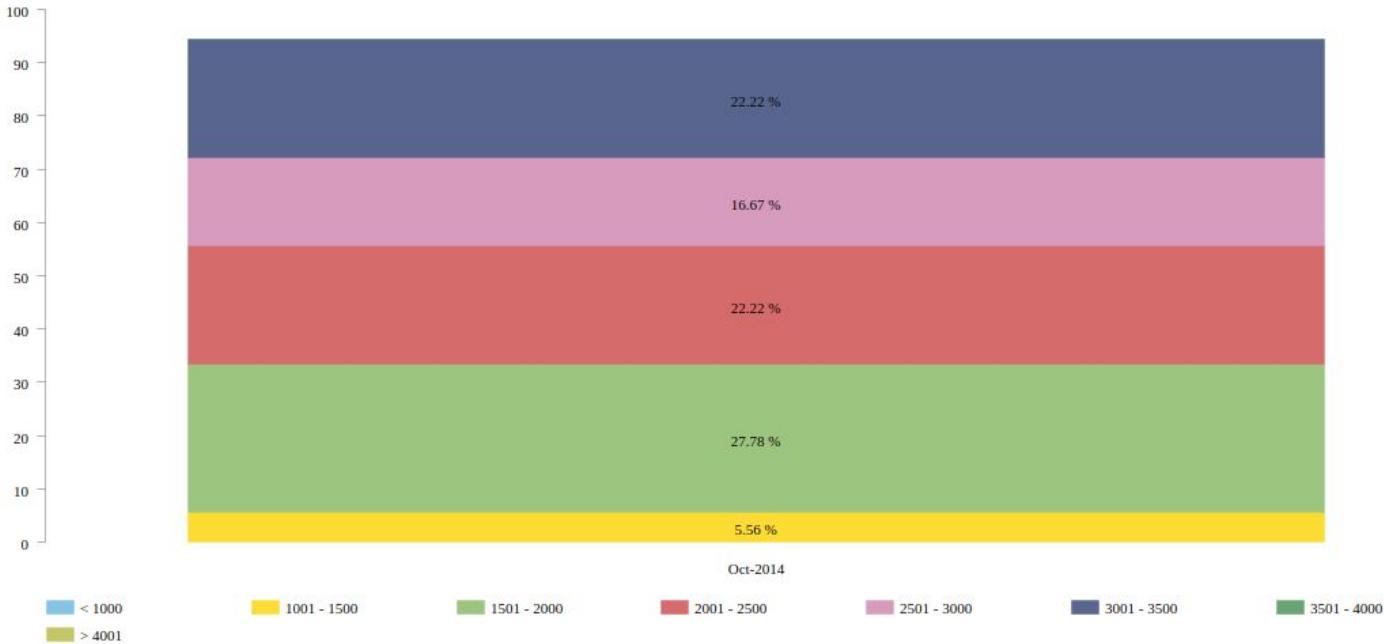
Month	< 28	28 - 30	31 - 32	33 - 36	37 - 38	39 - 40	41 - 42	> 42
Oct-2014	1 (5.56 %)	0 (0.00 %)	1 (5.56 %)	9 (50.00 %)	4 (22.22 %)	3 (16.67 %)	0 (0.00 %)	0 (0.00 %)

**Figure 10: Admissions By Gestation****Fig: Table 10: Admissions By Gestation****1.8.26. Table 11: Admissions By Birth Weight**

- 1.8.26.1. Birth Weight should be generated from “Baby Registration” i.e., Registration -> Baby Registration -> Birth Weight
- 1.8.26.2. Refer **Table 6 Fig: Birth Weight**
- 1.8.26.3. The birth weight values would be in 4 digit whole number
- 1.8.26.4. Admission by Birth Weight table data will be generated based on the “Birth Weight” entries from “Baby Registration” and should follow the condition below(1.8.26.5)
- 1.8.26.5. Based on the condition that is Patient must be admitted in NICU Admission
- 1.8.26.6. Eg [If there are 2 entries in 1250, 5 entries in 1300, then the value(7) should display in range 1001 to 1500 in Birth Weight Distribution]
- 1.8.26.7. The table values should also calculate the percentage and display
- 1.8.26.8. Refer **Fig: Table 11: Admissions By Birth Weight**

**Table 11: Admissions By Birth Weight**

Month	< 1000	1001 - 1500	1501 - 2000	2001 - 2500	2501 - 3000	3001 - 3500	3501 - 4000	> 4001
Oct-2014	1 (5.56 %)	1 (5.56 %)	5 (27.78 %)	4 (22.22 %)	3 (16.67 %)	4 (22.22 %)	0 (0 %)	0 (0 %)

**Figure 11: Admissions By Birth Weight****Fig: Table 11: Admissions By Birth Weight****1.8.27. Table 12: Chronic Lung Disease**

**1.8.27.1.** Following conditions should be followed for displaying O2 requirement at day 28, O2 requirement at 36 weeks corrected age, Home oxygen therapy

**1.8.27.2. O2 requirement at day 28**

**1.8.27.2.1.** The Gestation weeks entered in “Baby Registration” must be greater than 32

**1.8.27.2.2.** Spontaneous Ventilating in “Daycare” should be No

**1.8.27.2.3.** I.e., NICU Admission -> Doctor’s Daily Entry Form -> Respiratory System -> Select Invasive Ventilation “NO” -> Select Ventilation choose as “Spontaneous Ventilating” -> Select Spontaneous Ventilating “No”

**1.8.27.2.4.** Refer Fig for Invasive Ventilation, Ventilation Choose, Spontaneously Ventilating

General Information Respiratory System Cardiovascular System Gastrointestinal System Central Nervous System  
Renal, Fluid Balance & Bloods Sepsis & Drugs Invasive Lines Skin ROP & Plan Notes Reassessment Sheet

**Respiratory ICD:**

Are there any positive examination findings? **N/A** No Yes

Invasive Ventilation:

**N/A** **Yes** **No**

Ventilation Choose:

Type Of Blood Gas:  
Venous

Last BG at:  
01 00 AM

pH:

**Fig: Invasive Ventilation**

General Information Respiratory System Cardiovascular System Gastrointestinal System Central Nervous System Renal, Fluid Balance & Bloods  
Sepsis & Drugs Invasive Lines Skin ROP & Plan Notes

**Respiratory ICD:**

Are there any positive examination findings? **N/A** No Yes

Invasive Ventilation:

**N/A** **Yes** **No**

Ventilation Choose:

Type Of Blood Gas:  
N/A

Lactate:

ET Tube:

**N/A** **Yes** **No**

PEEP

SaO<sub>2</sub> PostDuctal:

**Fig: Ventilation Choose**

General Information    Respiratory System    Cardiovascular System    Gastrointestinal System    Central Nervous System  
 Renal, Fluid Balance & Bloods    Sepsis & Drugs    Invasive Lines    Skin    ROP & Plan    Notes    Reassessment Sheet

**Respiratory ICD:**

Are there any positive examination findings?

Invasive Ventilation:

Type Of Blood Gas: Venous

Last BG at: 01  AM

pH: 7.4

PaO<sub>2</sub>: 44

PaCO<sub>2</sub>: 35

Ventilation Choose: Spontaneously ventilating

Spontaneously Ventilating:

**Fig: Spontaneously Ventilating**

**1.8.27.2.5.** Day of Life in “Daycare” should be greater than or equal to 28 ( $\geq 28$ )

**1.8.27.2.6.** I.e., NICU Admission -> Doctors Daily Entry Form -> General Information -> Day of Life

**1.8.27.2.7.** Refer Fig: Day of Life

General Information    Respiratory System    Cardiovascular System    Gastrointestinal System    Central Nervous System  
 Renal, Fluid Balance & Bloods    Sepsis & Drugs    Invasive Lines    Skin    ROP & Plan    Notes    Reassessment Sheet

Baby Name: B/O jyothi kirthi sangani

Date of Record: 06-10-2014

Mr No: 1400005224

Time of Record: N/A  PM

DOB: 05-10-2014

Current Problems:

Day Of Life: 1

**Fig: Day of Life**

**1.8.27.2.8.** FiO<sub>2</sub> in Daycare “Respiratory System” should be greater than 21(>21)

**1.8.27.2.9.** I.e., NICU Admission -> Doctor’s Daily Entry Form -> Respiratory System -> FiO<sub>2</sub>

**1.8.27.2.10.** Refer Fig: FiO2

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Dashboard', 'Masters', 'Settings', and a user account for 'manikandan'. On the left, a vertical sidebar lists various modules: 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION', 'Admission Form', 'Doctors daily entry form', 'NICU Discharge Details', 'Discharge Summary', 'NURSE DAILY ENTRY FORM', 'POSTNATAL ADMISSION', 'OP REGISTRATION', 'REPORTS', 'TESTS', and 'CALCULATORS'. The 'Respiratory System' tab is highlighted in blue. Below it, other tabs include 'General Information', 'Renal, Fluid Balance & Bloods', 'Sepsis & Drugs', 'Invasive Lines', 'Skin', 'ROP & Plan', 'Notes', and 'Reassessment Sheet'. The main content area displays a 'Respiratory ICD:' field with a redacted URL. A question 'Are there any positive examination findings?' has options 'N/A', 'No', and 'Yes', with 'Yes' being selected. A section for 'Invasive Ventilation' shows a slider with 'N/A' (blue), 'Yes' (red), and 'No' (green). Input fields for 'PIP', 'PEEP', 'MAP', and 'FiO2' (set to 21) are present. To the right, a 'Type Of Blood Gas:' dropdown is set to 'Venous', and blood gas values for 'Last BG at:', 'pH', 'PaO2', 'PaCO2', and 'HCO3:' are listed. A red arrow points to the 'FiO2:' input field, and another red arrow points to the 'Respiratory System' tab in the top navigation bar.

**Fig: FiO2**

**1.8.27.2.11.** Chronic Lung Diseases table data for O2 requirement at day 28 record, will be generated based on the above condition(O2 requirement at day 28)

**1.8.27.2.12.** Refer Fig: Table 12: Chronic Lung Disease

**1.8.27.3. O2 requirement at 36 weeks corrected age**

**1.8.27.3.1.** Chronic Lung Diseases in “Respiratory System” should be Yes

**1.8.27.3.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Respiratory System -> Chronic Lung Diseases

**1.8.27.3.3.** Refer Fig : Respiratory System and Chronic Lung Diseases

General Information    **Respiratory System**    Cardiovascular System    Gastrointestinal System    Central Nervous System  
 Renal, Fluid Balance & Bloods    Sepsis & Drugs    Invasive Lines    Skin    ROP & Plan    Notes    Reassessment Sheet

**Respiratory ICD:**

Are there any positive examination findings ?    **Yes**

Invasive Ventilation:

N/A    Yes    No

Type Of Blood Gas:

Venous

Fig: Respiratory System

Retractions:

N/A	No	Mild	Moderate	Severe

Air entry:

N/A	Equal	Reduced Bilateral	Reduced Right	Reduced Left

Needle Thoracocentesis:

Yes

Intercostal Drain:

Yes

Chronic Lung Disease:

Yes

Fig: Chronic Lung Diseases

**1.8.27.3.4.** Chronic Lung Diseases table data for O<sub>2</sub> requirement at 36 weeks corrected age record, will be generated based on the above condition(O<sub>2</sub> requirement at 36 weeks corrected age)

**1.8.27.3.5.** Refer Fig: Table 12: Chronic Lung Disease

#### 1.8.27.4. Home oxygen therapy

**1.8.27.4.1.** Home Oxygen in “NICU Discharge” should be Yes

**1.8.27.4.2.** I.e., NICU Admission -> NICU Discharge Details -> Checklist -> Home Oxygen

**1.8.27.4.3.** Refer Fig: Home Oxygen

The screenshot shows the Neonatal software interface. The left sidebar contains links for Registration, Neonate - Basic Entry, NICU Admission, Admission Form, Doctors daily entry form, NICU Discharge Details (which has a red arrow pointing to it), Discharge Summary, Nurse Daily Entry Form, Postnatal Admission, OP Registration, Reports, Tests, Calculators, and Delete Approvals. The top navigation bar includes links for Dashboard, Masters, Settings, and a user account. The main content area is titled 'Discharge Details' and shows fields for Hb(g/dl), PCV, DCT, Total Serum Bilirubin (mg/dl), Direct Bilirubin (mg/dl), Ca (mg/dl), Po4 (mg/dl), ALP (IU/L), Na (mmol/l), and Home Oxygen. There is also a section for ROP Screening, Type of Treatment (with a 'Add More' button), Neurological Status (with a color scale from N/A to Abnormal), and Feeding At Discharge. A red arrow points to the 'Discharge Details' tab in the header, and another red arrow points to the 'Yes' button in the 'Home Oxygen' radio button group.

**Fig: Home Oxygen**

**1.8.27.4.4.** Chronic Lung Diseases table data for Home oxygen therapy record, will be generated based on the above condition(Home oxygen therapy)

**1.8.27.4.5.** Refer **Fig: Table 12: Chronic Lung Disease**

Table 12: Chronic Lung Disease (Applies to inborn & outborn babies.)

Month	O2 requirement at day 28	O2 requirement at 36 wks corrected age	Home oxygen therapy
Oct-2014	0	0	0

Figure 12: Chronic Lung Disease (Applies to inborn & outborn babies.)**Fig: Table 12: Chronic Lung Disease****1.8.28. Table 13: Types Of Respiratory Therapy**

**1.8.28.1.** Following Conditions should be followed for Surfactant, Invasive ventilation (days), CPAP (days), NIPPV (days), HHHFNC (days), Nasal Prongs O2 (days), Head Box O2 (days)

**1.8.28.2. Surfactant**

**1.8.28.2.1.** Surfactant therapy in the NICU in “Respiratory System” should be Yes

**1.8.28.2.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Respiratory System -> Surfactant therapy in the NICU

**1.8.28.2.3.** Refer Fig: Respiratory System and Surfactant therapy

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Dashboard', 'Masters', 'Settings', and 'manikandan'. On the left, a sidebar lists 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION', 'Admission Form', 'Doctors daily entry form', and 'NICU Discharge Details'. The main content area has tabs for 'General Information', 'Respiratory System' (which is selected and highlighted in blue), 'Cardiovascular System', 'Gastrointestinal System', and 'Central Nervous System'. Below these tabs are links for 'Renal, Fluid Balance & Bloods', 'Sepsis & Drugs', 'Invasive Lines', 'Skin', 'ROP & Plan', 'Notes', and 'Reassessment Sheet'. A red arrow points to the 'Respiratory System' tab. Another red arrow points to the 'Respiratory ICD:' input field.

**Fig: Respiratory System**

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Dashboard', 'Masters', 'Settings', and 'manikandan'. On the left, a sidebar lists 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION', 'Admission Form', 'Doctors daily entry form', and 'NICU Discharge Details'. The main content area contains various input fields and buttons. In the 'Surfactant therapy in the NICU:' section, there is a blue button labeled 'Yes' with a red arrow pointing to it. Other sections include 'IT in sec:', 'Flow (L/min):', 'Respiratory Indication:', 'Needle Thoracocentesis:', 'Intercostal Drain:', and 'Chronic Lung Disease:'.

**Fig: Surfactant Therapy**

**1.8.28.2.4.** Types Of Respiratory Therapy table data for Surfactant record, will be generated based on the above condition(Surfactant)

**1.8.28.2.5.** Refer Fig: Table 13: Types Of Respiratory Therapy

#### **1.8.28.3. Invasive ventilation (days)**

**1.8.28.3.1.** Invasive Ventilation in “Daycare” should be Yes

**1.8.28.3.2.** I.e., NICU Admission -> Doctor’s Daily Entry Form -> Respiratory System -> Invasive Ventilation

**1.8.28.3.3.** Refer Fig: Invasive Ventilation

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Neonatal', 'Dashboard', 'Masters', 'Settings', and 'manikandan'. The left sidebar has sections for 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION', 'Admission Form', 'Doctors daily entry form', 'NICU Discharge Details', 'Discharge Summary', and 'NURSE DAILY ENTRY FORM'. The main content area shows the 'Respiratory System' tab selected. It includes fields for 'Respiratory ICD:', 'Are there any positive examination findings? (N/A, No, Yes)', 'Invasive Ventilation' (with a slider from 'N/A' to 'Yes' where 'Yes' is highlighted in red), 'Type Of Blood Gas', 'Lactate', and 'ET Tube'. A red arrow from the sidebar points to the 'Respiratory System' tab, and another red arrow points to the 'Yes' button on the ventilation slider.

**Fig: Invasive Ventilation**

**1.8.28.3.4.** Types Of Respiratory Therapy table data for Invasive Ventilation(days) record, will be generated based on the above condition(Invasive Ventilation(days))

**1.8.28.3.5.** Refer **Fig: Table 13: Types Of Respiratory Therapy**

#### **1.8.28.4. CPAP (days)**

**1.8.28.4.1.** CPAP in “Non - Invasive Ventilation” should be Yes

**1.8.28.4.2.** I.e., NICU Admission -> Doctor’s Daily Entry Form -> Respiratory System -> Invasive Ventilation (No) -> Ventilation Choose (Non Invasive Ventilation) -> CPAP

**1.8.28.4.3.** Refer Fig: CPAP

**1.8.28.4.4.** Types Of Respiratory Therapy table data for CPAP(days) record, will be generated based on the above condition(CPAP(days))

**1.8.28.4.5.** Refer **Fig: Table 13: Types Of Respiratory Therapy**

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Neonatal', 'Dashboard', 'Masters', 'Settings', and a user account. Below the dashboard, a secondary navigation bar lists categories like 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION', 'Admission Form', 'Doctors daily entry form', 'NICU Discharge Details', 'Discharge Summary', 'NURSE DAILY ENTRY FORM', 'POSTNATAL ADMISSION', 'OP REGISTRATION', 'REPORTS', and 'TESTS'. The main content area is titled 'Respiratory System' under 'Daycare > Edit For [REDACTED]'. It contains sections for 'Respiratory ICD:', 'Are there any positive examination findings? (N/A, No, Yes)', 'Invasive Ventilation' (radio buttons for N/A, Yes, No), 'Type Of Blood Gas', 'Lactate', 'ET Tube', and 'SaO2 PostDuctal'. A 'Ventilation Choose' dropdown is set to 'NonInvasive Ventilation', and a second dropdown below it is set to 'CPAP' (highlighted with a red arrow). Other options in the 'Non-Invasive Ventilation' dropdown include 'NIMV/NIPPV' and 'HHHFNC'.

**Fig: CPAP****1.8.28.5. NIPPV (days)**

- 1.8.28.5.1.** NIPPV in “Non - Invasive Ventilation” should be Yes
- 1.8.28.5.2.** I.e., NICU Admission -> Doctor’s Daily Entry Form -> Respiratory System -> Invasive Ventilation (No) -> Ventilation Choose (Non Invasive Ventilation) -> NIPPV
- 1.8.28.5.3.** Refer Fig: NIPPV
- 1.8.28.5.4.** Types Of Respiratory Therapy table data for NIPPV(days) record, will be generated based on the above condition(NIPPV(days))
- 1.8.28.5.5.** Refer **Fig: Table 13: Types Of Respiratory Therapy**

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Neonatal', 'Dashboard', 'Masters', 'Settings', and a user account. The left sidebar has links for 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION', 'Admission Form', 'Doctors daily entry form', 'NICU Discharge Details' (highlighted with a red arrow), 'Discharge Summary', 'NURSE DAILY ENTRY FORM', 'POSTNATAL ADMISSION', 'OP REGISTRATION', 'REPORTS', and 'TESTS'. The main content area is titled 'Edit Form' and shows the 'Respiratory System' tab selected. Other tabs include 'General Information', 'Cardiovascular System', 'Gastrointestinal System', and 'Central Nervous System'. Sub-sections like 'Renal, Fluid Balance & Bloods', 'Sepsis & Drugs', 'Invasive Lines', 'Skin', 'ROP & Plan', 'Notes', and 'Reassessment Sheet' are also visible. The 'Respiratory ICD:' field is empty. A question 'Are there any positive examination findings?' has options 'N/A', 'No', and 'Yes'. The 'Invasive Ventilation:' section has three buttons: 'N/A' (grey), 'Yes' (red), and 'No' (green). The 'Type Of Blood Gas:' dropdown is set to 'N/A'. The 'Lactate:' field is empty. The 'ET Tube:' section has three buttons: 'N/A' (grey), 'Yes' (red), and 'No' (green). The 'SaO2 PostDuctal:' field is empty. The 'Ventilation Choose:' dropdown is set to 'NonInvasive Ventilation'. Below it, the 'Non-Invasive Ventilation:' section has three buttons: 'N/A' (grey), 'CPAP' (blue), and 'NIMV/NIPPV' (blue). A red arrow points from the 'Ventilation Choose' dropdown to the 'NIMV/NIPPV' button.

Fig: NIPPV

### 1.8.28.6. HHHFNC (days)

- 1.8.28.6.1. HHHFNC in “Non - Invasive Ventilation” should be Yes
- 1.8.28.6.2. I.e., NICU Admission -> Doctor’s Daily Entry Form -> Respiratory System -> Invasive Ventilation (No) -> Ventilation Choose (Non Invasive Ventilation) -> HHHFNC
- 1.8.28.6.3. Refer Fig: HHHFNC
- 1.8.28.6.4. Types Of Respiratory Therapy table data for HHHFNC(days) record, will be generated based on the above condition(HHHFNC(days))
- 1.8.28.6.5. Refer Fig: Table 13: Types Of Respiratory Therapy

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Neonatal', 'Dashboard', 'Masters', 'Settings', and a user account. The left sidebar has sections for 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION' (which is expanded), 'Admission Form', 'Doctors daily entry form' (highlighted with a red arrow), 'NICU Discharge Details', 'Discharge Summary', 'NURSE DAILY ENTRY FORM', 'POSTNATAL ADMISSION', 'OP REGISTRATION', 'REPORTS', and 'TESTS'. The main content area is titled 'Respiratory System' (highlighted with a red arrow). It contains fields for 'Respiratory ICD:', 'Are there any positive examination findings? (N/A, No, Yes)', 'Invasive Ventilation' (with 'Yes' highlighted in red), 'Type Of Blood Gas', 'Lactate', 'ET Tube' (with 'Yes' highlighted in red), 'SaO2 PostDuctal', and 'Ventilation Choose' (set to 'NonInvasive Ventilation'). Below 'Ventilation Choose' is a dropdown menu listing 'Non-Invasive Ventilation', 'CPAP', 'NIMV/NIPPV', and 'HHHFNC' (highlighted with a red arrow).

**Fig: HHHFNC****1.8.28.7. Nasal Prongs O<sub>2</sub> (days)**

**1.8.28.7.1.** NPO<sub>2</sub> in “Non - Invasive Ventilation” should be Yes

**1.8.28.7.2.** I.e., NICU Admission -> Doctor’s Daily Entry Form -> Respiratory System -> Invasive Ventilation (No) -> Ventilation Choose (Other Respiratory Support) -> NPO<sub>2</sub>

**1.8.28.7.3.** Refer Fig: NPO<sub>2</sub>

**1.8.28.7.4.** Types Of Respiratory Therapy table data for NPO<sub>2</sub>(days) record, will be generated based on the above condition(NPO<sub>2</sub>(days))

**1.8.28.7.5.** Refer Fig: **Table 13: Types Of Respiratory Therapy**

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Neonatal', 'Dashboard', 'Masters', 'Settings', and a user account. The left sidebar has links for 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION', 'Admission Form', 'Doctors daily entry form' (highlighted with a red arrow), 'NICU Discharge Details', 'Discharge Summary', 'NURSE DAILY ENTRY FORM', 'POSTNATAL ADMISSION', 'OP REGISTRATION', 'REPORTS', and 'TESTS'. The main content area is titled 'Respiratory System' (highlighted with a red arrow). It contains sections for 'Respiratory ICD:', 'Are there any positive examination findings? (N/A, No, Yes)', 'Invasive Ventilation' (with 'Yes' and 'No' buttons), 'Type Of Blood Gas', 'Lactate', 'ET Tube', and 'SaO2 PostDuctal'. The 'Ventilation Choose' dropdown is set to 'Other Respiratory Support'. Below it, under 'Other Respiratory Support', the 'NPO2' button is highlighted with a red arrow.

**Fig: NPO2****1.8.28.8. Head Box O2 (days)**

- 1.8.28.8.1.** HBO2 in “Non - Invasive Ventilation” should be Yes
- 1.8.28.8.2.** I.e., NICU Admission -> Doctor’s Daily Entry Form -> Respiratory System -> Invasive Ventilation (No) -> Ventilation Choose (Other Respiratory Support) -> HBO2
- 1.8.28.8.3.** Refer Fig: HBO2
- 1.8.28.8.4.** Types Of Respiratory Therapy table data for HBO2(days) record, will be generated based on the above condition(HBO2(days))
- 1.8.28.8.5.** Refer **Fig: Table 13: Types Of Respiratory Therapy**

**Neonatal** Dashboard Masters Settings manikandan

**REGISTRATION**

**NEONATE - BASIC ENTRY FOR...**

**NICU ADMISSION**

Admission Form

Doctors daily entry form (red arrow)

NICU Discharge Details

Discharge Summary

**NURSE DAILY ENTRY FORM**

**POSTNATAL ADMISSION**

OP REGISTRATION

REPORTS

TESTS

Dashboard > Daycare > Edit For [REDACTED]

General Information Respiratory System Cardiovascular System Gastrointestinal System Central Nervous System  
Renal, Fluid Balance & Bloods Sepsis & Drugs Invasive Lines Skin ROP & Plan Notes Reassessment Sheet

Respiratory ICD:

Are there any positive examination findings? N/A No Yes

Invasive Ventilation: (red arrow)

N/A Yes No

Ventilation Choose: Other Respiratory Support (red arrow)

Other Respiratory Support: N/A NPO2 HBO2 Face mask oxygen (red arrow)

Type Of Blood Gas:  
N/A

Lactate:  
[Redacted]

ET Tube: (red arrow)

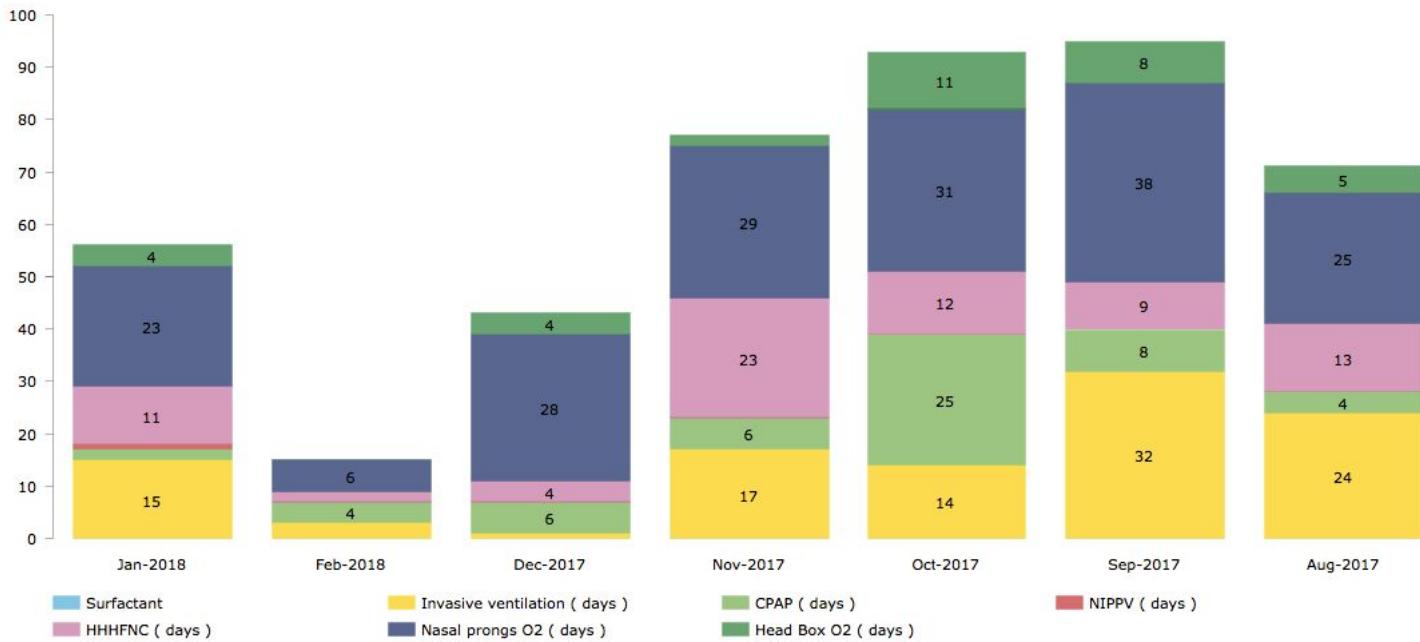
N/A Yes No

SaO2 PostDuctal:  
[Redacted]

**Fig: HBO2**

**Table 13: Types Of Respiratory Therapy** (Applies to inborn & outborn babies.)

Month	Surfactant	Invasive ventilation (days)	CPAP (days)	NIPPV (days)	HFFNC (days)	Nasal Prongs O2 (days)	Head Box O2 (days)
Jan-2018	0	15	2	1	11	23	4
Feb-2018	0	3	4	0	2	6	0
Dec-2017	0	1	6	0	4	28	4
Nov-2017	0	17	6	0	23	29	2
Oct-2017	0	14	25	0	12	31	11
Sep-2017	0	32	8	0	9	38	8
Aug-2017	0	24	4	0	13	25	5

**Figure 13: Types Of Respiratory Therapy** (Applies to inborn & outborn babies.)**Fig: Table 13: Types Of Respiratory Therapy****1.8.28.9. Table 14: Indications For Surfactant Therapy**

**1.8.28.9.1.** Surfactant therapy in the NICU in “Respiratory System” should be Yes

**1.8.28.9.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Respiratory System -> Surfactant therapy in the NICU -> Indication for Surfactant

The screenshot shows the 'Respiratory System' tab selected in the top navigation bar. Below it, a sub-navigation bar includes 'General Information', 'Respiratory System' (highlighted in blue), 'Cardiovascular System', 'Gastrointestinal System', and 'Central Nervous System'. Other tabs like 'Renal, Fluid Balance & Bloods', 'Sepsis & Drugs', etc., are also visible. On the left sidebar, a red arrow points to the 'Doctors daily entry form' option, which is highlighted in blue.

Fig: Respiratory System

The screenshot shows the 'Surfactant therapy in the NICU' section. It includes fields for 'Respiratory Indication', 'Surfactant therapy in the NICU' (with a 'Yes' button highlighted in blue), 'Indication For Surfactant' (listing CDH, MAS, Preterm RDS, Term RDS), and 'Other RS Findings'. On the left sidebar, a red arrow points to the 'NURSE DAILY ENTRY FORM' option, which is highlighted in blue. Another red arrow points to the 'Yes' button under 'Surfactant therapy in the NICU'.

Fig: Surfactant Therapy

- 1.8.28.9.3.** Refer Fig: Respiratory System and Surfactant therapy
- 1.8.28.9.4.** Surfactant Therapy table data will be generated based on the Induction for Surfactant entries from “Respiratory System”
- 1.8.28.9.5.** Refer Fig: Table 14: Indications For Surfactant Therapy

#### 1.8.28.10. Table 15: Cardiovascular Morbidites

- 1.8.28.10.1.** Following Conditions should be followed for Hypotension(Inotropes), PDA Treatment Medical, PDA Treatment Surgical, PPHN
- 1.8.28.10.2. Hypotension**
  - 1.8.28.10.2.1.** Hypotension(Inotropes) in “Cardiovascular System” should be Yes
  - 1.8.28.10.2.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Cardiovascular System -> Inotropes
  - 1.8.28.10.2.3.** Refer Fig: Inotropes

The screenshot shows the Neonatal software interface. On the left, there's a dark sidebar with various menu items like Registration, NEONATE - BASIC ENTRY FOR..., NICU ADMISSION, etc. A red arrow points from this sidebar to the 'Doctors daily entry form' link. At the top, there's a navigation bar with Dashboard, Masters, Settings, and a user account. Below the navigation bar, the main content area has tabs for General Information, Respiratory System, Cardiovascular System (which is selected and highlighted in blue), Gastrointestinal System, Central Nervous System, Renal, Fluid Balance & Bloods, Sepsis & Drugs, Invasive Lines, Skin, ROP & Plan, Notes, and Reassessment Sheet. The Cardiovascular System tab contains fields for Cardiovascular ICD, examination findings (positive or not), HR, CFT, blood pressure measurements (Systolic, Diastolic, Mean), pulse pressure, central and peripheral temperatures, color, central pulses, peripheral pulses, and inotropes. The inotropes section includes a slider with 'N/A', 'Normal', and 'Wide' options, and another slider for inotropes with 'N/A', 'No', and 'Yes' options. A red arrow points to the 'Yes' option in the inotropes slider.

Fig: Inotropes

**1.8.28.10.2.4.** Cardiovascular Morbidites table data for Hypotension record, will be generated based on the “Inotropes” entries from “Cardiovascular System”

**1.8.28.10.2.5.** Refer Fig: Table 15: Cardiovascular Morbidites

#### 1.8.28.10.3. PDA Treatment Medical

**1.8.28.10.3.1.** PDA Treatment in “Cardiovascular System” should be Medical

**1.8.28.10.3.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Cardiovascular System -> ECHO (Yes) -> PDA Treatment (Medical)

**1.8.28.10.3.3.** Refer Fig: PDA Treatment Medical

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Dashboard', 'Masters', 'Settings', and a user account. The left sidebar has links for 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION', 'Admission Form', and 'Doctors daily entry form'. The main content area shows tabs for 'General Information', 'Respiratory System', 'Cardiovascular System' (which is selected and highlighted in blue), 'Gastrointestinal System', 'Central Nervous System', 'Renal, Fluid Balance & Bloods', 'Sepsis & Drugs', 'Invasive Lines', 'Skin', 'ROP & Plan', 'Notes', and 'Reassessment Sheet'. Below these tabs is a section for 'Cardiovascular ICD' with a text input field. Underneath is a question 'Are there any positive examination findings?' with options 'N/A', 'No', and 'Yes'. A red arrow points from the left sidebar to the 'Doctors daily entry form' link.

Fig: Cardiovascular System

The screenshot shows the Neonatal software interface. The left sidebar includes 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION', 'Admission Form', 'Doctors daily entry form' (with a red arrow pointing to it), 'NICU Discharge Details', 'Discharge Summary', 'NURSE DAILY ENTRY FORM', 'POSTNATAL ADMISSION', 'OP REGISTRATION', 'REPORTS', 'TESTS', and 'CALCULATORS'. The main content area contains sections for 'Peripheral Pulses' (N/A), 'Femoral Pulses' (N/A), 'Precordial Activity' (N/A, Present, Absent), 'S1S2' (N/A, Normal, Abnormal), 'Murmur' (N/A, Present, Absent), and 'Other CVS Findings' (empty text input field). To the right, there are three horizontal sliders for 'ECHO' (N/A, No, Yes, with 'Yes' highlighted in blue and a red arrow pointing to it), 'PDA' (N/A, Yes, No), and 'PDA Treatment' (N/A, None, Medical, Surgical, with 'Medical' highlighted in blue and a red arrow pointing to it). A 'PAH' section is also present.

Fig: PDA Treatment Medical

**1.8.28.10.3.4.** Cardiovascular Morbidites table data for PDA Treatment Medical record, will be generated based on the “PDA Treatment” entries from “Cardiovascular System”

**1.8.28.10.3.5.** Refer Fig: Table 15: Cardiovascular Morbidites

#### 1.8.28.10.4. PDA Treatment Surgical

**1.8.28.10.4.1.** PDA Treatment in “Cardiovascular System” should be Surgical

**1.8.28.10.4.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Cardiovascular System -> ECHO (Yes) -> PDA Treatment (Surgical)

**1.8.28.10.4.3.** Refer Fig: PDA Treatment Surgical

Dashboard > Daycare > Edit For [REDACTED]

General Information Respiratory System **Cardiovascular System** Gastrointestinal System Central Nervous System

Renal, Fluid Balance & Bloods Sepsis & Drugs Invasive Lines Skin ROP & Plan Notes Reassessment Sheet

**Cardiovascular ICD:**

Are there any positive examination findings? **N/A** No Yes

Fig: Cardiovascular System

Peripheral Pulses: N/A

Femoral Pulses: N/A

Precordial Activity: **N/A** Present Absent

S1S2: **N/A** Normal Abnormal

Murmur: **N/A** Present Absent

Other CVS Findings: [Text Input]

ECHO: **N/A** **No** Yes

ECHO Report: [Text Input]

PDA: **N/A** Yes No

PDA Treatment: **N/A** None Medical **Surgical**

PAH: [Text Input]

Fig: PDA Treatment Surgical

**1.8.28.10.4.4.** Cardiovascular Morbidites table data for PDA Treatment Surgical record, will be generated based on the “PDA Treatment” entries from “Cardiovascular System”

**1.8.28.10.4.5.** Refer Fig: Table 15: Cardiovascular Morbidites

#### 1.8.28.10.5. PPHN

**1.8.28.10.5.1.** I.e., NICU Admission -> Doctors Daily Entry Form -> Cardiovascular System -> ECHO (Yes) -> PAH (Yes)

**1.8.28.10.5.2.** Refer Fig: PAH

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Dashboard', 'Masters', 'Settings', and a user account. The left sidebar has links for 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION', 'Admission Form', and 'Doctors daily entry form'. The main content area shows tabs for 'General Information', 'Respiratory System', 'Cardiovascular System' (which is selected and highlighted in blue), 'Gastrointestinal System', 'Central Nervous System', 'Renal, Fluid Balance & Bloods', 'Sepsis & Drugs', 'Invasive Lines', 'Skin', 'ROP & Plan', 'Notes', and 'Reassessment Sheet'. Below these tabs is a section for 'Cardiovascular ICD' with a text input field. Underneath is a question 'Are there any positive examination findings?' with options 'N/A', 'No', and 'Yes'. A red arrow points from the left sidebar to the 'Doctors daily entry form' link.

Fig: Cardiovascular System

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Dashboard', 'Masters', 'Settings', and a user account. The left sidebar has links for 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION', 'Admission Form', 'Doctors daily entry form', 'NICU Discharge Details' (which is selected and highlighted in blue), 'Discharge Summary', 'NURSE DAILY ENTRY FORM', 'POSTNATAL ADMISSION', 'OP REGISTRATION', 'REPORTS', 'TESTS', 'CALCULATORS', and 'DELETE APPROVALS'. The main content area contains several sections with dropdown menus and radio button groups. These include 'Femoral Pulses' (N/A), 'Precordial Activity' (radio buttons for 'N/A', 'Present', and 'Absent'), 'S1S2' (radio buttons for 'N/A', 'Normal', and 'Abnormal'), 'Murmur' (radio buttons for 'N/A', 'Present', and 'Absent'), 'Other CVS Findings' (text input field), 'ECHO' (radio buttons for 'N/A', 'No', and 'Yes'), 'PDA' (radio buttons for 'N/A', 'Yes', and 'No'), 'PDA Treatment' (radio buttons for 'N/A', 'None', 'Medical', and 'Surgical'), and 'PAH' (radio buttons for 'N/A', 'Yes', and 'No'). A red arrow points from the left sidebar to the 'NICU Discharge Details' link. Another red arrow points to the 'Yes' radio button for 'PAH'.

Fig: PAH

- 1.8.28.10.5.3.** Cardiovascular Morbidites table data for PPAH record, will be generated based on the “PAH” entries from “Cardiovascular System”
- 1.8.28.10.5.4.** Refer Fig: Table 15: Cardiovascular Morbidites

**Table 15: Cardiovascular Morbidites** (Applies to inborn & outborn babies.)

Month	Hypotension	PDA Treatment Medical	PDA Treatment Surgical	PPHN
Jan-2018	12	0	0	7
Feb-2018	0	0	0	4
Dec-2017	7	0	0	0
Nov-2017	9	1	0	0
Oct-2017	12	3	0	0
Sep-2017	12	0	0	0
Aug-2017	25	0	0	0

**Fig: Table 15: Cardiovascular Morbidites****1.8.28.11. Table 16: Gastrointestinal Morbidity**

- 1.8.28.11.1.** Following conditions should be followed for NEC and TPN
- 1.8.28.11.2.** NEC and TPN should be Yes in “Gastrointestinal System”
- 1.8.28.11.3.** I.e., NICU Admission -> Doctors Daily Entry Form -> Gastrointestinal System -> NEC (Yes) -> TPN (Yes)
- 1.8.28.11.4.** Refer Fig: NEC, Fig: TPN

The screenshot shows the Neonatal software interface. On the left, there's a sidebar with various menu items: REGISTRATION, NEONATE - BASIC ENTRY FORM..., NICU ADMISSION, Admission Form, Doctors daily entry form (which has a red arrow pointing to it), and NICU Discharge Details. The main area shows a navigation bar with Dashboard, Daycare, and Edit Form (highlighted with a red box). Below this is a horizontal menu with tabs: General Information, Respiratory System, Cardiovascular System, Gastrointestinal System (which is highlighted with a red arrow), Central Nervous System, Renal, Fluid Balance & Bloods, Sepsis & Drugs, Invasive Lines, Skin, ROP & Plan, Notes, and Reassessment Sheet. The Gastrointestinal System tab is active. The main content area contains fields for Gastrointestinal ICD, examination findings (with buttons for N/A, No, and Yes), feeding information (Directly breast feed? with buttons for No and Yes), and umbilical details (with a dropdown menu showing 'N/A').

**Fig: Gastrointestinal System**

REGISTRATION

NEONATE - BASIC ENTRY FOR...

NICU ADMISSION

Admission Form

Doctors daily entry form

NICU Discharge Details

Discharge Summary

NURSE DAILY ENTRY FORM

Other Drugs ml/day:

IV fluids +/- PN ml/kg/d:

TPN:

N/A      No      Yes

Carbohydrates (g/kg/day)

Amino Acid (g/kg/day)

Baby's Blood Group: Not Known

Mother Blood Group: Not Known

AXR Findings:

Ultrasound Abdominal: No

Fig: TPN

REGISTRATION

NEONATE - BASIC ENTRY FOR...

NICU ADMISSION

Admission Form

Doctors daily entry form

NICU Discharge Details

Discharge Summary

NURSE DAILY ENTRY FORM

POSTNATAL ADMISSION

OP REGISTRATION

REPORTS

Bowel Sounds:

N/A      Normal      Scaphoid      Distended

Abdominal Girth:

Other PA Findings:

NEC:

N/A      Yes      No

Fig: NEC

**1.8.28.11.5.** Gastrointestinal Morbidites table data for NEC and TPN records, will be generated based on the NEC, TPN entries from “Gastrointestinal System”

**1.8.28.11.6.** Refer Fig: Table 16: Gastrointestinal Morbidity

**Table 16: Gastrointestinal Morbidity** (Applies to inborn & outborn babies)

Month	Necrotizing Enterocolitis	TPN days
Jan-2018	0	0
Feb-2018	0	0
Dec-2017	0	0
Nov-2017	0	0
Oct-2017	0	0
Sep-2017	0	0
Aug-2017	0	0

**Fig: Table 16: Gastrointestinal Morbidity****1.8.28.12. Table 17: Retinopathy of Prematurity****1.8.28.12.1. ROP Screening**

**1.8.28.12.2.** ROP list value “performed” should be selected in ROP Screening to display the ROP Screening status in table

**1.8.28.12.3.** I.e., NICU Admission -> NICU Discharge Details -> Checklist -> ROP Screening(Performed)

**1.8.28.12.4.** Refer Fig: ROP Screening

**1.8.28.12.5.** Refer **Fig: Table 17: Retinopathy Of Prematurity**

The screenshot shows the Neonatal software interface. On the left, there's a sidebar with various menu items like 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION', 'Admission Form', 'Doctors daily entry form', 'NICU Discharge Details', and 'Discharge Summary'. A red arrow points to the 'NICU Discharge Details' button. At the top, there's a navigation bar with 'Dashboard', 'Discharge Details', and 'Edit For [redacted]'. A red arrow points to the 'Checklist' tab. Below the tabs, there are several input fields: 'Hb(g/dl)', 'PCV', 'DCT', and 'Total Serum Bilirubin (mg/dl)'. To the right, there's a section for 'ROP Screening' with a dropdown set to 'Performed'. Below it are 'ROP Screening Result' (set to 'N/A') and 'ROP Treatment' (with 'No' and 'Yes' options). A red arrow points to the 'Performed' dropdown. A large red arrow points from the bottom of the sidebar towards the 'Checklist' tab.

**Fig: ROP Screening****1.8.28.12.6. ROP**

**1.8.28.12.7.** For displaying the ROP status, the drop down value should be selected any one among these Stage1 ROP, Stage2 ROP, Stage3 ROP, Stage4 ROP, Aggressive Posterior ROP, Plus disease

**1.8.28.12.8.** I.e., NICU Admission -> NICU Discharge Details -> Checklist -> ROP Screening(Performed) -> ROP

**1.8.28.12.9.** Refer ROP Screening Result

The screenshot shows the 'Discharge Details' tab selected in the top navigation bar. On the left sidebar, 'NICU ADMISSION' is expanded, showing 'Admission Form', 'Doctors daily entry form', 'NICU Discharge Details', and 'Discharge Summary'. The main area displays various medical parameters like Hb(g/dl), PCV, DCT, Total Serum Bilirubin, Direct Bilirubin, and Ca. To the right, there's a section for 'ROP Screening' with a dropdown menu. A red arrow points from the 'N/A' option in this menu to the 'ROP Screening Result' field, which also has 'N/A' selected. Below this is a 'Type of Treatment' field with a '+ Add More' button.

**Fig: ROP Screening Result**

- 1.8.28.12.10. Total no of ROP entries(Count) will calculate and display under ROP in Retinopathy of Prematurity table
- 1.8.28.12.11. Refer **Fig: Table 17: Retinopathy Of Prematurity**
- 1.8.28.12.12. **ROP Treatment**
- 1.8.28.12.13. For displaying ROP Treatment status value in table, then the ROP Treatment in “NICU Discharge Details” should be Yes
- 1.8.28.12.14. I.e., I.e., NICU Admission -> NICU Discharge Details -> Checklist -> ROP Screening(Performed) -> ROP Treatment(Yes)
- 1.8.28.12.15. Refer Fig: ROP Treatment

This screenshot shows the 'Discharge Details' tab selected. The left sidebar has 'NICU Discharge Details' expanded. The main area includes fields for Hb(g/dl), PCV, DCT, Total Serum Bilirubin, Direct Bilirubin, and Ca. To the right, there's a 'ROP Screening' field set to 'Performed', a 'ROP Screening Result' field set to 'Aggressive Posterior ROP', and a 'ROP Treatment' field set to 'No'. Below these is a 'Type of Treatment' field with a slider. A red arrow points from the 'Yes' button on the slider to the 'Yes' label above it. Another red arrow points from the 'Performed' dropdown in the ROP Screening field to the same field in the screenshot above.

**Fig: ROP Treatment**

**1.8.28.12.16.** Total no of Yes entries(Count) will calculate and display under ROP Treatment in Retinopathy of Prematurity table

**1.8.28.12.17.** Refer Fig: Table 17: Retinopathy Of Prematurity

**Table 17: Retinopathy Of Prematurity** (Applies to inborn & outborn babies.)

Month	ROP Screening	ROP	ROP Treatment
Jan-2018	0	0	0
Feb-2018	0	0	0
Dec-2017	0	0	0
Nov-2017	0	0	0
Oct-2017	0	0	0
Sep-2017	1	0	1
Aug-2017	2	0	0

**Fig: Table 17: Retinopathy Of Prematurity**

### **1.8.28.13. Table 18: Sepsis Organisms in Blood**

**1.8.28.13.1.** Based on the list values from Sepsis Organism, each list value entries would be calculated separately and display in the Sepsis Organism in Blood table

**1.8.28.13.2.** I.e., NICU Admission -> Sepsis and Drugs -> Organisms

**1.8.28.13.3.** Refer Fig: Sepsis Organism

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Dashboard', 'Masters', 'Settings', and a user account. Below the dashboard, there are tabs for General Information, Respiratory System, Cardiovascular System, Gastrointestinal System, Central Nervous System, Renal, Fluid Balance & Bloods, Sepsis & Drugs (which is currently selected), Invasive Lines, Skin, ROP & Plan, Notes, and Reassessment Sheet. On the left sidebar, there are links for Registration, Neonate - Basic Entry Form, NICU Admission, Admission Form, Doctors daily entry form, NICU Discharge Details, Discharge Summary, Nurse Daily Entry Form, Postnatal Admission, OP Registration, Reports, Tests, Calculators, and Delete Approvals. The main content area displays fields for Sepsis ICD, SEPSIS status (Suspect), Antibiotic (N/A), Day, Other Drugs, Blood Culture status (N/A, Not sent, Awaited, Negative, Positive), CRP mg per L, TLC per cu.mm, Percentage N, ANC per cu.mm, Platelets per cu.mm, and an Organism dropdown menu. The Organism dropdown is open, showing a list of organisms: N/A, E.coli, Klebsiella, Pseudomonas, Enterobacter, Citrobacter, Acinetobacter, CONS, MSSA, MRSA, VRSA, Streptococcus, Enterococcus, Yeast, NLFGNB, NFGNB, and Burkholderia. A red arrow points from the 'Organism' dropdown to the list of organisms.

Fig: Sepsis Organism

#### 1.8.28.13.4. Refer Fig: Table 18: Sepsis Organisms in Blood

#### 1.8.28.14. Table 19: Survival to Discharge by Gestation

- 1.8.28.14.1. Table value would be displayed based on the Baby Registration “Gestation weeks” and NiCU discharge status except died or died OCR i.e., Inpatient, Discharged, Discharge at Request, Discharge Against Medical Advice, Transferred any one of these must be selected
- 1.8.28.14.2. I.e., Registration -> Baby Registration -> Gestation Weeks and NICU Admission -> NICU Discharge Details -> Discharge details -> Status
- 1.8.28.14.3. Refer Fig: Gestation, Fig: Discharge Status

Dashboard > Baby Registration > Edit

Mr No: 123456789B

Baby Name: B/O Test Test

Birth Status: Inborn

DOB: 26-02-2018

TOB: 08 01 AM

Birth Weight (in grams) (in kilograms): 1500 1.5

Multiple Pregnancy: Yes

Baby's Blood Group: AB Negative

Neonatal Consultant: Duty Doctor

Paediatric Surgeon: Not Applicable

NEONATE - BASIC ENTRY FOR...

NICU ADMISSION

NURSE DAILY ENTRY FORM

POSTNATAL ADMISSION

OP REGISTRATION

REPORTS

TESTS

CALCULATORS

DELETE APPROVALS

Gestation: Weeks: 39 Days: 5

Fig: Gestation

Dashboard > Discharge Details > Edit For [REDACTED]

Discharge Details Checklist

Status: Inpatient

Corrected Gestation: Weeks: 38 Days: 1

Newborn Screen:

N/A	Sent	Not Sent	Normal	Abnormal
-----	------	----------	--------	----------

Hearing Screening:

N/A	At 3 mths	Not Indicated
-----	-----------	---------------

NEONATAL PROFORMA

NICU ADMISSION

Admission Form

Doctors Day Care Sheet

NICU Discharge Details

Discharge Summary

NURSES DAILY ENTRY FORM

Inpatient

Discharged

Discharge at Request

Discharge Against Medical Advice

Transferred

Died

Died (OCNR)

DOL at Discharge: 11

OFC in cm: 31.5

Fig: Discharge Status

**1.8.28.14.4.** Survival to Discharge by Gestation table data will be generated based on the above(**1.8.28.14.1**) condition

#### 1.8.28.14.5. Refer Fig: Table 19: Survival To Discharge By Gestation

**Table 19: Survival To Discharge By Gestation (Applies to inborn & outborn babies.)**

Month	< 28	28 - 30	31 - 32	33 - 36	37 - 38	39 - 40	41 - 42	> 42
Jan-2018	0 (0 %)	0 (0 %)	2 (100.00 %)	6 (100.00 %)	7 (100.00 %)	6 (100.00 %)	0 (0 %)	0 (0 %)
Feb-2018	0 (0 %)	1 (50.00 %)	4 (100.00 %)	6 (100.00 %)	2 (100.00 %)	6 (100.00 %)	0 (0 %)	1 (0 %)
Dec-2017	0 (0 %)	0 (0 %)	3 (100.00 %)	11 (100.00 %)	5 (100.00 %)	12 (100.00 %)	0 (0 %)	0 (0 %)
Nov-2017	0 (0 %)	1 (100.00 %)	2 (100.00 %)	6 (100.00 %)	6 (100.00 %)	12 (100.00 %)	0 (0 %)	0 (0 %)
Oct-2017	0 (0 %)	3 (100.00 %)	3 (100.00 %)	5 (100.00 %)	9 (100.00 %)	12 (100.00 %)	0 (0 %)	0 (0 %)
Sep-2017	0 (0.00 %)	0 (0 %)	2 (100.00 %)	10 (100.00 %)	9 (100.00 %)	18 (100.00 %)	0 (0 %)	1 (0 %)
Aug-2017	0 (0 %)	0 (0 %)	1 (100.00 %)	15 (100.00 %)	9 (100.00 %)	13 (100.00 %)	0 (0 %)	0 (0 %)

**Fig: Table 19: Survival To Discharge By Gestation**

#### 1.8.28.15. Table 20: Survival to Discharge by Birth Weight

**1.8.28.15.1.** Table value would be displayed based on the Baby Registration “Birth Weight” and NiCU discharge status except died or died OCR i.e., Inpatient, Discharged, Discharge at Request, Discharge Against Medical Advice, Transferred any one of these must be selected

**1.8.28.15.2.** I.e., Registration -> Baby Registration -> Birth Weight and NICU Admission -> NICU Discharge Details -> Discharge details -> Status

**1.8.28.15.3.** Refer Fig: Birth Weight, Fig: Discharge Status

**Fig: Birth Weight**

**1.8.28.15.4.** Survival to Discharge by Birth Weight table data will be generated based on the above(1.8.28.14.1) condition

**1.8.28.15.5.** Refer Fig: Table 20: Survival to Discharge by Birth Weight

The screenshot shows the 'Discharge Details' section of the Neonatal software. On the left sidebar, under 'NICU ADMISSION', 'Admission Form' is selected. The main area shows a 'Status' dropdown menu with 'Inpatient' selected, and a 'DOL at Discharge' input field containing '11'. To the right, there are sections for 'Corrected Gestation' (Weeks: 38, Days: 1), 'Newborn Screen' (status: Sent), and 'Hearing Screening' (status: At 3 mths).

**Fig: Discharge Status****Table 20: Survival To Discharge By Birth Weight** (Applies to inborn & outborn babies.)

Month	< 1000	1001 - 1500	1501 - 2000	2001 - 2500	2501 - 3000	3001 - 3500	3501 - 4000	> 4001
Jan-2018	0 (0 %)	1 (100 %)	3 (100 %)	5 (100 %)	4 (100 %)	6 (100 %)	1 (100 %)	1 (100 %)
Feb-2018	0 (0 %)	2 (67 %)	7 (100 %)	2 (100 %)	5 (100 %)	2 (100 %)	1 (100 %)	0 (0 %)
Dec-2017	0 (0 %)	5 (100 %)	5 (100 %)	7 (100 %)	7 (100 %)	6 (100 %)	1 (100 %)	0 (0 %)
Nov-2017	0 (0 %)	1 (100 %)	6 (100 %)	6 (100 %)	9 (100 %)	5 (100 %)	0 (0 %)	0 (0 %)
Oct-2017	1 (100 %)	6 (100 %)	4 (100 %)	2 (100 %)	10 (100 %)	7 (100 %)	0 (0 %)	1 (100 %)
Sep-2017	0 (0 %)	3 (100 %)	5 (100 %)	8 (100 %)	14 (100 %)	7 (100 %)	0 (0 %)	2 (100 %)
Aug-2017	0 (0 %)	3 (100 %)	3 (100 %)	15 (100 %)	8 (100 %)	6 (100 %)	3 (100 %)	0 (0 %)

**Fig: Table 20: Survival to Discharge by Birth Weight****1.8.28.16. Table 21: Characteristics of Babies Who Died**

- 1.8.28.16.1.** Status should be either died or died(ONCR) in “Discharge details”
- 1.8.28.16.2.** I.e., NICU Admission -> NICU Discharge Details -> Discharge details -> Status
- 1.8.28.16.3.** Refer Fig: Discharge Status
- 1.8.28.16.4.** Based on the status selected as in above(**1.8.28.16.1**) condition, the total no of entries(count) will calculate and display in Characteristics of Babies who died table
- 1.8.28.16.5.** Refer

Discharge Details Checklist

Status:

- Inpatient
- Inpatient
- Discharged
- Discharge at Request
- Discharge Against Medical Advice
- Transferred
- Died
- Died (OCNR)

DOL at Discharge:

11

OFC in cm:

31.5

Corrected Gestation:

Weeks: 38 Days: + 1

Newborn Screen:

N/A Sent Not Sent Normal Abnormal

Hearing Screening:

N/A At 3 mths Not Indicated

**Fig: Discharge Status****1.8.28.17. Table 22: Procedures Performed****1.8.28.17.1. Endotracheal intubation**

- 1.8.28.17.1.1.** Invasive and ET Tube should be Yes in “Respiratory System”
- 1.8.28.17.1.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Respiratory System -> Invasive Ventilation (Yes) -> ET Tube (Yes)
- 1.8.28.17.1.3.** Refer Fig: Endotracheal intubation
- 1.8.28.17.1.4.** Procedures Performed table data for Endotracheal intubation, will be generated based on the Invasive and ET Tube entries from “Respiratory System”
- 1.8.28.17.1.5.** Refer **Fig: Table 22: Procedures Performed**

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Neonatal', 'Dashboard', 'Masters', 'Settings', and a user account. The left sidebar has sections for 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION' (which is highlighted with a blue background), 'Admission Form', 'Doctors daily entry form' (with a red arrow pointing to it), 'NICU Discharge Details', 'Discharge Summary', 'NURSE DAILY ENTRY FORM', 'POSTNATAL ADMISSION', 'OP REGISTRATION', 'REPORTS', and 'TESTS'. The main content area shows tabs for 'General Information', 'Respiratory System' (selected and highlighted with a blue background), 'Cardiovascular System', 'Gastrointestinal System', and 'Central Nervous System'. Below these tabs are links for 'Renal, Fluid Balance & Bloods', 'Sepsis & Drugs', 'Invasive Lines', 'Skin', 'ROP & Plan', 'Notes', and 'Reassessment Sheet'. The 'Respiratory System' tab contains fields for 'Respiratory ICD:', 'Are there any positive examination findings? (N/A, No, Yes)', 'Invasive Ventilation' (with 'Yes' highlighted in red), 'Type Of Blood Gas', 'Lactate', 'ET Tube' (with 'Yes' highlighted in red), 'Invasive Ventilation Type' (CMV), 'PIP' (5), 'PEEP' (5), and 'Size in cm' (None). A red arrow also points to the 'Yes' button in the ET Tube section.

**Fig: Endotracheal intubation****1.8.28.17.2. Intercostal tube insertion****1.8.28.17.2.1.** Intercostal Drain in “Respiratory system” should be Yes**1.8.28.17.2.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Respiratory System -> Intercostal Drain(Yes)**1.8.28.17.2.3.** Refer Fig: Respiratory System, Fig: Intercostal Drain

This screenshot is identical to the one above, showing the Neonatal software interface with the Respiratory System tab selected. The sidebar and main content area are the same, including the 'Doctors daily entry form' section with a red arrow pointing to it, and the 'Yes' button in the 'Invasive Ventilation' section highlighted with a red arrow.

**Fig: Respiratory System**

REGISTRATION

NEONATE - BASIC ENTRY FOR...

NICU ADMISSION

Admission Form

Doctors daily entry form (highlighted)

NICU Discharge Details

Ventilator Rate:

Frequency (Hz):

IT in sec:

Flow (L/min):

Needle Thoracocentesis:

No

Intercostal Drain:

**Yes** (highlighted)

Chronic Lung Disease:

No

**Fig: Intercostal Drain**

**1.8.28.17.2.4.** Procedures Performed table data for Intercostal tube insertion, will be generated based on the Intercostal Drain entries from “Respiratory System”

**1.8.28.17.2.5.** Refer Fig: Table 22: Procedures Performed

### 1.8.28.17.3. Lumbar puncture

**1.8.28.17.3.1.** Lumbar puncture in “Sepsis & Drugs” should be Yes

**1.8.28.17.3.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Sepsis & Drugs -> Lumbar puncture(Yes)

**1.8.28.17.3.3.** Refer Fig: Lumbar puncture

REGISTRATION

NEONATE - BASIC ENTRY FOR...

NICU ADMISSION

Admission Form

Doctors daily entry form (highlighted)

NICU Discharge Details

Discharge Summary

NURSE DAILY ENTRY FORM

POSTNATAL ADMISSION

OP REGISTRATION

REPORTS

TESTS

CALCULATORS

Dashboard > Daycare > Edit For B/O Test 123231212

General Information Respiratory System Cardiovascular System Gastrointestinal System Central Nervous System

Renal, Fluid Balance & Bloods **Sepsis & Drugs** Invasive Lines Skin ROP & Plan Notes Reassessment Sheet

Sepsis ICD:

SEPSIS: Severe

Other Drugs

+ Add More

Organism: N/A

+ Add More

Lumbar puncture:

Performed (highlighted) Not Performed Not Indicated

**Fig: Lumbar puncture**

**1.8.28.17.3.4.** Procedures Performed table data for Lumbar puncture, will be generated based on the Lumbar puncture entries from “Sepsis & Drugs”

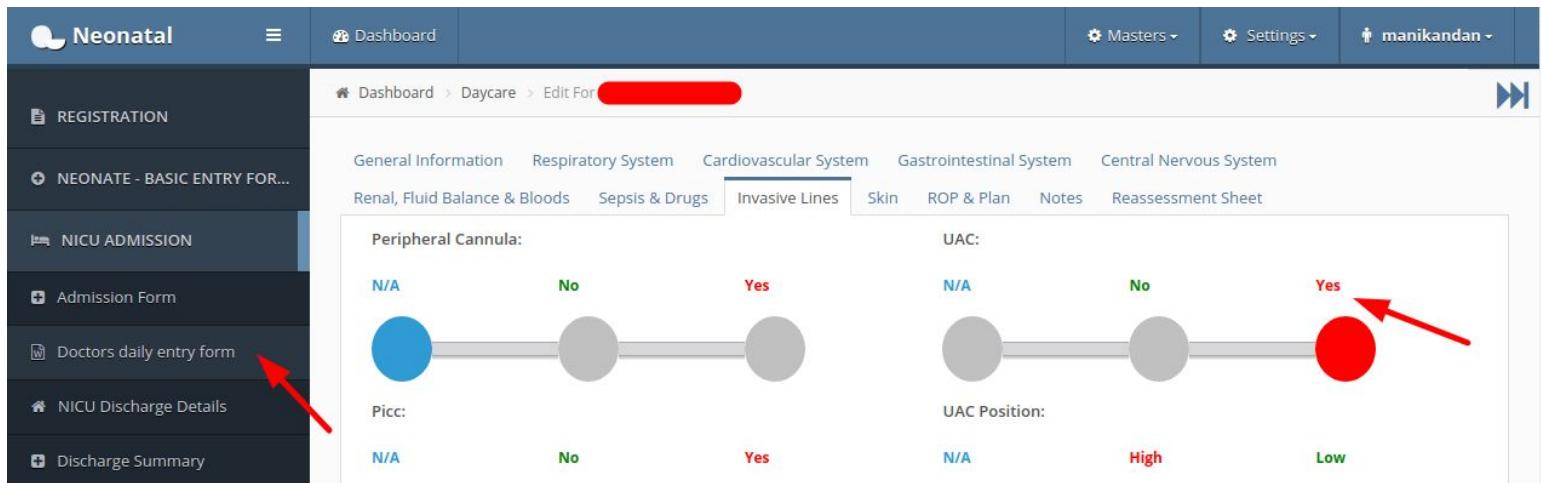
**1.8.28.17.3.5.** Refer Fig: **Table 22: Procedures Performed**

#### **1.8.28.17.4. Umbilical arterial catheterization**

**1.8.28.17.4.1.** Umbilical arterial catheterization(UAC) in “Invasive Lines” should be Yes

**1.8.28.17.4.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Invasive Lines -> UAC(Yes)

**1.8.28.17.4.3.** Refer Fig: UAC



**Fig: UAC**

**1.8.28.17.4.4.** Procedures Performed table data for Umbilical arterial catheterization (UAC) , will be generated based on the UAC entries from “Invasive Lines”

**1.8.28.17.4.5.** Refer Fig: **Table 22: Procedures Performed**

#### **1.8.28.17.5. Umbilical venous catheterization**

**1.8.28.17.5.1.** Umbilical venous catheterization(UVC) in “Invasive Lines” should be Yes

**1.8.28.17.5.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Invasive Lines -> UVC(Yes)

**1.8.28.17.5.3.** Refer Fig: UVC

**1.8.28.17.5.4.** Procedures Performed table data for Umbilical venous catheterization (UVC) , will be generated based on the UVC entries from “Invasive Lines”

**1.8.28.17.5.5.** Refer Fig: **Table 22: Procedures Performed**

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Dashboard', 'Masters', 'Settings', and a user account. The left sidebar has sections for 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION', 'Admission Form', 'Doctors daily entry form' (highlighted with a red arrow), 'NICU Discharge Details', 'Discharge Summary', 'NURSE DAILY ENTRY FORM', 'POSTNATAL ADMISSION', 'OP REGISTRATION', and 'REPORTS'. The main content area shows tabs for 'General Information', 'Respiratory System', 'Cardiovascular System', 'Gastrointestinal System', 'Central Nervous System', 'Renal, Fluid Balance & Bloods', 'Sepsis & Drugs', 'Invasive Lines' (highlighted with a red arrow), 'Skin', 'ROP & Plan', 'Notes', and 'Reassessment Sheet'. Under 'Invasive Lines', there are sections for 'Peripheral Cannula', 'UAC', 'Picc', 'UVC', and 'UAC Position'. Each section has a 'N/A' button, a 'No' button (green), and a 'Yes' button (red). Red arrows point to the 'Yes' buttons for 'Invasive Lines' and 'UVC'.

**Fig: UVC**

#### **1.8.28.17.6. Peripheral arterial catheterization**

- 1.8.28.17.6.1.** Peripheral arterial catheterization(PAC) in “Invasive Lines” should be Yes
- 1.8.28.17.6.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Invasive Lines -> PAC(Yes)
- 1.8.28.17.6.3.** Refer Fig: PAC
- 1.8.28.17.6.4.** Procedures Performed table data for Peripheral arterial catheterization (PAC) , will be generated based on the PAC entries from “Invasive Lines”
- 1.8.28.17.6.5.** Refer Fig: Table 22: Procedures Performed

The screenshot shows the Neonatal software interface. The left sidebar contains various menu items: REGISTRATION, NEONATE - BASIC ENTRY FOR..., NICU ADMISSION, Admission Form, Doctors daily entry form (highlighted with a red arrow), NICU Discharge Details, Discharge Summary, NURSE DAILY ENTRY FORM, POSTNATAL ADMISSION, OP REGISTRATION, REPORTS, TESTS, CALCULATORS, and DELETE APPROVALS. The main content area shows a dashboard for a patient with ID 123231212. The 'Invasive Lines' tab is selected in the top navigation bar. Below it, there are sections for Peripheral Cannula, UAC, Picc, UAC Position, UVC, UAC Day, UVC Position, UAC Complication, PAC, and another UAC Position section. Each section has three buttons: 'N/A' (blue circle), 'No' (grey circle), and 'Yes' (red circle). In the 'UAC Position' section, the 'Yes' button is highlighted with a red arrow. In the second 'UAC Position' section, the 'Yes' button is also highlighted with a red arrow.

Fig: PAC

#### 1.8.28.17.7. Percutaneously insert central venous catheter

- 1.8.28.17.7.1. Percutaneously insert central venous catheter(PICC) in “Invasive Lines” should be Yes
- 1.8.28.17.7.2. I.e., NICU Admission -> Doctors Daily Entry Form -> Invasive Lines -> PICC(Yes)
- 1.8.28.17.7.3. Refer Fig: PICC
- 1.8.28.17.7.4. Procedures Performed table data for Percutaneously insert central venous catheter (PICC), will be generated based on the PICC entries from “Invasive Lines”
- 1.8.28.17.7.5. Refer Fig: Table 22: Procedures Performed

General Information   Respiratory System   Cardiovascular System   Gastrointestinal System   Central Nervous System  
Renal, Fluid Balance & Bloods   Sepsis & Drugs   Invasive Lines   Skin   ROP & Plan   Notes   Reassessment Sheet

Peripheral Cannula:

N/A	No	<b>Yes</b>

UAC:

N/A	No	<b>Yes</b>

Picc:

N/A	No	<b>Yes</b>

UAC Position:

N/A	High	Low

**Fig: PICC****1.8.28.17.8. USG abdomen**

- 1.8.28.17.8.1.** Ultrasound Abdominal in “Gastrointestinal System” should be Yes
- 1.8.28.17.8.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Gastrointestinal System -> Ultrasound Abdominal (Yes)
- 1.8.28.17.8.3.** Refer Fig: Gastrointestinal, Fig: Ultrasound

General Information   Respiratory System   Cardiovascular System   **Gastrointestinal System**   Central Nervous System  
Renal, Fluid Balance & Bloods   Sepsis & Drugs   Invasive Lines   Skin   ROP & Plan   Notes   Reassessment Sheet

Gastrointestinal ICD:

Are there any positive examination findings ?   **N/A**   No   Yes

Directly breast feed ?   **No**

Umbilicus:

N/A

**Fig: Gastrointestinal**

REGISTRATION  
NEONATE - BASIC ENTRY FOR...  
NICU ADMISSION  
Admission Form  
Doctors daily entry form  
NICU Discharge Details

Aspirate Volume:  
Aspirate Nature:  
Stools: Bowels not opened  
Abdomen: N/A Normal Scaphoid Distended

AXR Findings:  
Ultrasound Abdominal: Yes  
Key Findings:

**Fig: Ultrasound Abdominal**

**1.8.28.17.8.4.** Procedures Performed table data for USG abdomen, will be generated based on the Ultrasound Abdominal entries from “Gastrointestinal System”

**1.8.28.17.8.5.** Refer Fig: **Table 22: Procedures Performed**

#### **1.8.28.17.9. USG KUB**

**1.8.28.17.9.1.** Renal Ultrasound in “Renal, Fluid Balance & Bloods” should be Yes

**1.8.28.17.9.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Renal, Fluid Balance & Bloods -> Renal Ultrasound

**1.8.28.17.9.3.** Refer Fig: Renal, Fluid Balance & Bloods, Fig: Renal Ultrasound

REGISTRATION  
NEONATE - BASIC ENTRY FOR...  
NICU ADMISSION  
Admission Form  
Doctors daily entry form  
NICU Discharge Details  
Discharge Summary

General Information Respiratory System Cardiovascular System Gastrointestinal System Central Nervous System  
Renal, Fluid Balance & Bloods Sepsis & Drugs Invasive Lines Skin ROP & Plan Notes Reassessment Sheet

Fluid Balance ICD:  
Total Fluid ml/kg/d:  
Previous Weight:  
RBS:  
Glucose & Electrolyte Abnormalities:  
Hypoglycemia: No

**Fig; Renal, Fluid Balance & Bloods**

The screenshot shows the Neonatal software dashboard. On the left sidebar, under the 'NICU ADMISSION' section, the 'NICU Discharge Details' link is highlighted with a red arrow. In the main content area, there is a section for 'Renal Ultrasound'. This section includes a status field with four options: 'N/A' (blue), 'Passed' (green), 'Not Passed' (red), and 'Unmeasurable' (orange). Below this is a blue button labeled 'Yes' with a red arrow pointing to it. To the right of the ultrasound section are various medical parameters with 'No' buttons.

Parameter	Status
Hyponatremia	No
Hypernatremia	No
Hypokalemia	No
Hyperkalemia	No
Hypocalcemia	No
Hypercalcemia	No
Dilution Exchange	No
Transfusion	
Product	N/A
Volume ml/kg	

**Fig: Renal Ultrasound**

**1.8.28.17.9.4.** Procedures Performed table data for USG KUB, will be generated based on the Renal Ultrasound entries from “Renal, Fluid Balance & Bloods”

**1.8.28.17.9.5.** Refer Fig: **Table 22: Procedures Performed**

#### **1.8.28.17.10. USG Spine**

**1.8.28.17.10.1.** Ultrasound Spine in “Central Nervous System” should be Performed

**1.8.28.17.10.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Central Nervous System -> Ultrasound Spine

**1.8.28.17.10.3.** Refer Fig: Ultrasound Spine

The screenshot shows the Neonatal software interface. On the left, there's a vertical sidebar with various menu items: REGISTRATION, NEONATE - BASIC ENTRY FOR..., NICU ADMISSION, Admission Form, Doctors daily entry form (which has a red arrow pointing to it), NICU Discharge Details, Discharge Summary, NURSE DAILY ENTRY FORM, POSTNATAL ADMISSION, OP REGISTRATION, REPORTS, TESTS (with a red triangle icon), CALCULATORS, and DELETE APPROVALS.

The main content area shows a navigation bar at the top with Dashboard, Daycare, Edit For [redacted], Masters, Settings, and manikandan. Below this, a sub-navigation bar includes General Information, Respiratory System, Cardiovascular System, Gastrointestinal System, Central Nervous System (which is highlighted with a red box and has a red arrow pointing to it), Renal, Fluid Balance & Bloods, Sepsis & Drugs, Invasive Lines, Skin, ROP & Plan, Notes, and Reassessment Sheet.

The main form area contains sections for Central Nervous ICD (with a text input field), positive examination findings (with buttons for N/A, No, Yes), influence of sedation/Paralysis (with buttons for N/A, No, Yes), Therapeutic Hypothermia (with buttons for N/A, No, Yes), Neonatal Reflexes (with a dropdown menu showing N/A), Pupils (with a text input field), Anterior Fontanelle (with buttons for N/A, Normal, Depressed, Bulging), Activity (with a dropdown menu showing N/A), Neuro Sonogram (with a dropdown menu showing Not performed), Other CNS Findings (with a large text input field), and Ultrasound Spine (with a button labeled performed, which has a red arrow pointing to it). There's also a section for Ultrasound Spine Report (with a large text input field).

**Fig: Ultrasound Spine**

**1.8.28.17.10.4.** Procedures Performed table data for USG Spine, will be generated based on the Ultrasound Spine entries from “Central Nervous System”

**1.8.28.17.10.5.** Refer Fig: Table 22: Procedures Performed

#### **1.8.28.17.11. Echocardiogram**

**1.8.28.17.11.1.** Echo in “Cardiovascular System” should be Yes

**1.8.28.17.11.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Cardiovascular System -> Echo (Yes)

**1.8.28.17.11.3.** Refer Fig: Cardiovascular System, Fig: Echo

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Dashboard', 'Masters', 'Settings', and a user account. Below the navigation bar, a secondary menu has tabs for 'General Information', 'Respiratory System', 'Cardiovascular System' (which is highlighted in blue), 'Gastrointestinal System', 'Central Nervous System', 'Renal, Fluid Balance & Bloods', 'Sepsis & Drugs', 'Invasive Lines', 'Skin', 'ROP & Plan', 'Notes', and 'Reassessment Sheet'. On the left, a sidebar lists 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION' (selected), 'Admission Form', 'Doctors daily entry form', 'NICU Discharge Details', 'Discharge Summary', and 'NURSE DAILY ENTRY FORM'. A red arrow points from the sidebar to the 'NICU ADMISSION' tab in the top navigation.

**Fig: Cardiovascular System**

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Dashboard', 'Masters', 'Settings', and a user account. Below the navigation bar, a secondary menu has tabs for 'Peripheral Pulses', 'Femoral Pulses', 'Precordial Activity', 'S1S2', 'CFT', 'ECHO' (highlighted in blue), and 'ECHO Report'. On the left, a sidebar lists 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION' (selected), 'Admission Form', 'Doctors daily entry form', 'NICU Discharge Details', and 'Discharge Summary'. A red arrow points from the sidebar to the 'NICU ADMISSION' tab in the top navigation.

**Fig: ECHO**

**1.8.28.17.11.4.** Procedures Performed table data for Echocardiogram, will be generated based on the Echo entries from “Cardiovascular System”

**1.8.28.17.11.5.** Refer Fig: Table 22: Procedures Performed

#### **1.8.28.17.12. EEG**

**1.8.28.17.12.1.** EEG in “Central Nervous System” should display Performed

**1.8.28.17.12.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Central Nervous System -> EEG

**1.8.28.17.12.3.** Refer Fig: EEG

The screenshot shows the Neonatal software interface. The left sidebar contains various menu items: REGISTRATION, NEONATE - BASIC ENTRY FOR..., NICU ADMISSION, Admission Form, Doctors daily entry form (highlighted with a red arrow), NICU Discharge Details, Discharge Summary, NURSE DAILY ENTRY FORM, POSTNATAL ADMISSION, OP REGISTRATION, REPORTS, TESTS, CALCULATORS, and DELETE APPROVALS. The main content area is titled 'Dashboard > Daycare > Edit For [REDACTED]'. It has tabs for General Information, Respiratory System, Cardiovascular System, Gastrointestinal System, Central Nervous System (highlighted with a red arrow), Notes, and Reassessment Sheet. The 'Central Nervous System' tab is active. The page displays fields for Central Nervous ICD, examination findings, sedation status, therapeutic hypothermia, reflexes, and various CNS findings. A red arrow points to the 'Performed' status of the EEG/CFM procedure.

Fig: EEG

**1.8.28.17.12.4.** Procedures Performed table data for EEG, will be generated based on the EEG entries from “Central Nervous System”

**1.8.28.17.12.5.** Refer Fig: Table 22: Procedures Performed

#### 1.8.28.17.13. Double volume exchange transfusion

**1.8.28.17.13.1.** NNJ Treatment in “Gastrointestinal System” should display Exchange R

**1.8.28.17.13.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Gastrointestinal System -> Exchange R

**1.8.28.17.13.3.** Refer Fig: NNJ Treatment

The screenshot shows the Neonatal software interface. The top navigation bar includes 'Neonatal', 'Dashboard', 'Masters', 'Settings', and a user account. Below the dashboard, a sub-navigation bar lists 'General Information', 'Respiratory System', 'Cardiovascular System', 'Gastrointestinal System' (which is highlighted in blue), 'Central Nervous System', 'Renal, Fluid Balance & Bloods', 'Sepsis & Drugs', 'Invasive Lines', 'Skin', 'ROP & Plan', 'Notes', and 'Reassessment Sheet'. On the left, a sidebar contains links for 'REGISTRATION', 'NEONATE - BASIC ENTRY FOR...', 'NICU ADMISSION', 'Admission Form', 'Doctors daily entry form' (with a red arrow pointing to it), 'NICU Discharge Details', 'Discharge Summary', 'NURSE DAILY ENTRY FORM', 'POSTNATAL ADMISSION', 'OP REGISTRATION', 'REPORTS', 'TESTS', 'CALCULATORS', 'DELETE APPROVALS', and 'REGISTER APPROVALS'. The main content area displays various input fields and status indicators for neonatal care, including sections for 'Gastrointestinal ICD', 'Examination Findings', 'Feeding', 'Weight', 'Hepatomegaly', 'Splenomegaly', 'Hernia', 'Genitalia', 'Bilirubin', and 'NNJ Treatment'. The 'NNJ Treatment' section features a horizontal slider with four positions: 'N/A' (blue), 'None' (green), 'Photo Rx' (yellow), and 'Exchange Rx' (red, highlighted with a red arrow).

**Fig: NNJ Treatment**

**1.8.28.17.13.4.** Procedures Performed table data for Double volume exchange transfusion, will be generated based on the NNJ Treatment entries from “Central Nervous System”

**1.8.28.17.13.5.** Refer Fig: **Table 22: Procedures Performed**

**1.8.28.17.14. Chest and Abdominal X ray**

**1.8.28.17.14.1.** Initial X-rays in “Procedures” should display Performed

**1.8.28.17.14.2.** I.e., NICU Admission -> Admission Form -> Procedures -> Initial X-rays

**1.8.28.17.14.3.** Refer Fig: Initial X-rays

The screenshot shows the 'NICU Admission' section of the software. On the left sidebar, 'NICU ADMISSION' is selected. The main panel shows tabs for 'Basics', 'Medical History', 'Pregnancy', 'Baby Details', 'Admission Details', 'Procedures' (which is active), 'CRIB II', 'SNAPPE II', and 'Diagnosis'. Under 'Procedures', there is a section for 'Initial X ray' with a dropdown menu set to 'Performed'. Other fields include 'Chest X ray findings' (right sided hazziness present), 'Abdominal X Ray findings' (9 hours), 'Indications' (lethargic poor sucking temp diff >2 F), and 'IV Antibiotic' sections for Ampicillin + Cloxacillin and Amikacin.

**Fig: Initial X ray**

**1.8.28.17.14.4.** Procedures Performed table data for Chest and Abdominal X ray, will be generated based on the Initial X ray entries from “NICU Admission”

**1.8.28.17.14.5.** Refer Fig: Table 22: Procedures Performed

#### 1.8.28.17.15. Pericardiocentesis

**1.8.28.17.15.1.** Needle Thoracocentesis in “Respiratory System” should be Yes

**1.8.28.17.15.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Respiratory System -> Needle Thoracocentesis

**1.8.28.17.15.3.** Refer Fig: Respiratory System, Fig: Needle Thoracocentesis

The screenshot shows the 'Daycare' section of the software. On the left sidebar, 'Doctors daily entry form' is selected. The main panel shows tabs for 'General Information', 'Respiratory System' (which is active), 'Cardiovascular System', 'Gastrointestinal System', and 'Central Nervous System'. Below these tabs are links for 'Renal, Fluid Balance & Bloods', 'Sepsis & Drugs', 'Invasive Lines', 'Skin', 'ROP & Plan', 'Notes', and 'Reassessment Sheet'. Under 'Respiratory System', there are fields for 'Respiratory ICD', 'Are there any positive examination findings?' (with options N/A, No, Yes), 'Invasive Ventilation' (with options N/A, Yes, No), and 'Type Of Blood Gas' (set to Venous).

**Fig: Respiratory System**

Surfactant therapy in the NICU: Yes

Indication For Surfactant:

Baby's Respiratory Rate: 56

Retractions: N/A No Mild Moderate Severe

Air entry: N/A Equal Reduced Bilateral Reduced Right Reduced Left

AaDO<sub>2</sub>: -79

Other RS Findings: Nil

Needle Thoracocentesis: Yes

Intercostal Drain: Yes

Chronic Lung Disease: No

**Fig: Needle Thoracocentesis**

**1.8.28.17.15.4.** Procedures Performed table data for Pericardiocentesis, will be generated based on the Needle Thoracocentesis entries from “Respiratory System”

**1.8.28.17.15.5.** Refer Fig: Table 22: Procedures Performed

#### 1.8.28.17.16. MRI

**1.8.28.17.16.1.** MRI in “Central Nervous System” should display Yes

**1.8.28.17.16.2.** I.e., NICU Admission -> Doctors Daily Entry Form -> Central Nervous System -> MRI

**1.8.28.17.16.3.** Refer Fig: Central Nervous System, Fig: MRI

General Information Respiratory System Cardiovascular System Gastrointestinal System Central Nervous System

Renal, Fluid Balance & Bloods Sepsis & Drugs Invasive Lines Skin ROP & Plan None Reassessment Sheet

Central Nervous ICD:

Are there any positive examination findings? N/A No Yes

Is the baby under the influence of sedation/Paralysis? N/A No Yes

Therapeutic Hypothermia: N/A No Yes

Neonatal Reflexes: Normal

**Fig: Central Nervous System**

The screenshot shows the Neonatal software interface. On the left, a sidebar lists various medical forms: REGISTRATION, NEONATE - BASIC ENTRY FOR..., NICU ADMISSION, Admission Form, Doctors daily entry form (highlighted with a red arrow), NICU Discharge Details, Discharge Summary, NURSE DAILY ENTRY FORM, POSTNATAL ADMISSION, OP REGISTRATION, and REPORTS. The main area displays medical history for a neonate. It includes fields for Anterior Fontanelle (Normal), Activity (Normal), Tone (Normal), Cry (Normal consolable), and Seizures (No). There are also sections for Neuro Sonogram (performed) and Ultrasound Spine (performed). The MRI/CT Brain section shows a green 'Yes' button, which is highlighted with a red arrow. The Key Findings field is empty.

**Fig: MRI**

- 1.8.28.17.16.4.** Procedures Performed table data for MRI, will be generated based on the MRI entries from “Central Nervous System”
- 1.8.28.17.16.5.** Refer **Fig: Table 22: Procedures Performed**

**Table 22: Procedures Performed** (Applies to inborn & outborn babies.)

Month	Jan-2018	Feb-2018	Dec-2017	Nov-2017	Oct-2017	Sep-2017	Aug-2017
Endotracheal intubation	6	8	9	14	17	26	36
Intercostal tube insertion	1	2	2	2	3	8	9
Lumbar puncture	0	0	0	0	0	0	0
Umbilical arterial catheterization	0	0	1	4	7	11	15
Umbilical venous catheterization	0	0	1	4	7	11	15
Peripheral arterial catheterization	0	0	0	0	0	0	0
Percutaneously inserts central venous catheter	3	5	9	11	17	20	23
USG abdomen	1	0	0	0	1	2	2
USG KUB	1	0	0	0	3	8	1
USG Spine	1	0	1	0	0	0	0
Echocardiogram	9	5	6	10	23	14	1
EEG	1	0	0	0	0	0	0
Double volume exchange transfusion	0	0	0	0	1	0	0
Chest and Abdominal X ray	10	5	0	6	6	6	26
Pericardiocentesis	1	2	0	0	0	1	1
MRI	2	0	2	1	1	0	1

Total No. Of Outside Referrals : 163

**Fig: Table 22: Procedures Performed****1.8.28.18. Table 23: Outside Referrals by Gestation****1.8.28.18.1.** Birth Status must be “Outborn” in “Baby Registration”**1.8.28.18.2.** I.e., Registration -> Baby Registration -> Birth Status -> Gestation Weeks**1.8.28.18.3.** Refer Fig: Outborn

Dashboard > Baby Registration > Edit

Mr No: [REDACTED]

Baby Name: [REDACTED]

DOB: 15-02-2018

TOB: 05 18 PM

Multiple Pregnancy: Yes

Multiple Pregnancy Type: Twins

No. of babies admitted: 2

Birth Order: [REDACTED]

Sex: Male

Gestation:

Weeks:	Days:
38	+ 1

Birth Status: Outborn

Birth Weight (in grams) (in kilograms): 2956 2.956

Baby's Blood Group: A Positive

Neonatal Consultant: Dr Karthik Balasubramanian

+ Add More

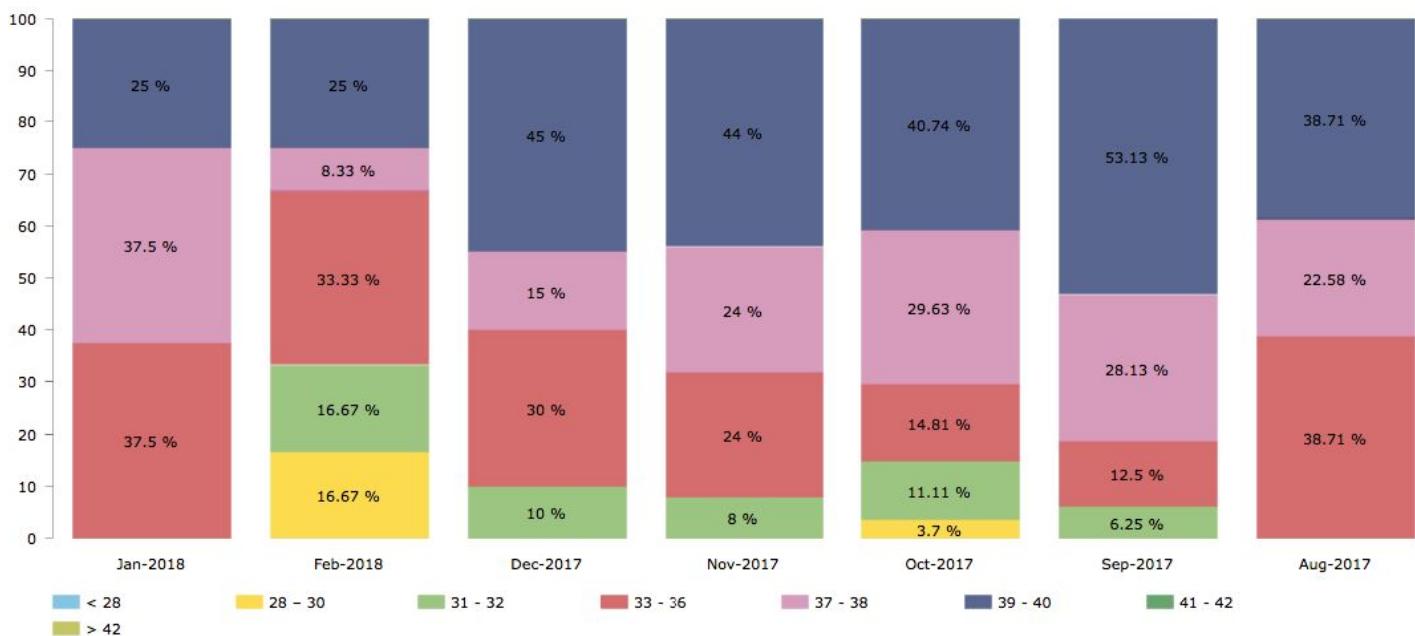
Paediatric Surgeon: N/A

Fig: Outborn

- 1.8.28.18.4.** Outside Referrals by Gestation table data will be generated based on “Outborn” babies for Gestation weeks entries from “Baby Registration”
- 1.8.28.18.5.** Refer Fig: Table 23: Outside Referrals by Gestation

**Table 23: Outside Referrals By Gestation** (Applies to inborn & outborn babies.)

Month	< 28	28 - 30	31 - 32	33 - 36	37 - 38	39 - 40	41 - 42	> 42
Jan-2018	0 (0.00 %)	0 (0.00 %)	0 (0.00 %)	6 (37.50 %)	6 (37.50 %)	4 (25.00 %)	0 (0.00 %)	0 (0.00 %)
Feb-2018	0 (0.00 %)	2 (16.67 %)	2 (16.67 %)	4 (33.33 %)	1 (8.33 %)	3 (25.00 %)	0 (0.00 %)	0 (0.00 %)
Dec-2017	0 (0.00 %)	0 (0.00 %)	2 (10.00 %)	6 (30.00 %)	3 (15.00 %)	9 (45.00 %)	0 (0.00 %)	0 (0.00 %)
Nov-2017	0 (0.00 %)	0 (0.00 %)	2 (8.00 %)	6 (24.00 %)	6 (24.00 %)	11 (44.00 %)	0 (0.00 %)	0 (0.00 %)
Oct-2017	0 (0.00 %)	1 (3.70 %)	3 (11.11 %)	4 (14.81 %)	8 (29.63 %)	11 (40.74 %)	0 (0.00 %)	0 (0.00 %)
Sep-2017	0 (0.00 %)	0 (0.00 %)	2 (6.25 %)	4 (12.50 %)	9 (28.13 %)	17 (53.13 %)	0 (0.00 %)	0 (0.00 %)
Aug-2017	0 (0.00 %)	0 (0.00 %)	0 (0.00 %)	12 (38.71 %)	7 (22.58 %)	12 (38.71 %)	0 (0.00 %)	0 (0.00 %)

**Figure 17: Outside Referrals By Gestation** (Applies to inborn & outborn babies.)**Fig: Table 23: Outside Referrals by Gestation****1.8.28.18.6.**