Neonatal Core Data Index

Data Item, Basis, Explanation, Values and Origin

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Data items: 63

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REFERENCE DATASETS

BAPM	British Association of Perinatal Medicine
BNDS	Birth Notification Data Set
CDS	Commissioning Data Set
CESDI	Confidential Enquiry into Stillbirths and Deaths in Infancy
CMDS	Commissioning Minimum Data Set
CNST	Clinical Negligence Scheme for Trusts
ENN	EuroNeoNet
HES	Hospital Episode Statistics
M-PAG	Maternity Professional Advisory Group – West Midlands
N-PAG	Neonatal Professional Advisory Group – West Midlands
ONS	Office for National Statistics
RCOG	Royal College of Obstetricians and Gynaecologists
RCPCH	Royal College of Paediatrics and Child Health
SS	SureStart

A. PERSONAL DETAILS

DATA ITEM	**Hospital code**
BASIS	Identifier for hospital location of the neonatal unit where baby is admitted
EXPLANATION	Allows analysis of data by hospital providing neonatal care
INPUT OPTIONS	Numerical format
DATA ORIGIN	BNDS, CDS, CESDI, HES, M-PAG, N-PAG

DATA ITEM	**NHS Number of baby**
BASIS	Unique person identifier
EXPLANATION	Unique identifier for use at local level and for record linkage in babies receiving care in more than one unit and for subsequent outcome data
INPUT OPTIONS	3-3-4 numerical format
DATA ORIGIN	BAPM, BNDS, CDS, CESDI, HES, M-PAG, N-PAG

DATA ITEM	**Postcode of mother at time of delivery**
BASIS	Identification of residence at time of birth
EXPLANATION	To derive geographical distribution of babies
	Link to district code to compare with ONS data
	To derive deprivation score
INPUT OPTIONS	Alphanumeric
DATA ORIGIN	BAPM, CAR, CDS, CEMD, CESDI, HES, M-PAG, SS

DATA ITEM	**NHS Number of mother**
BASIS	Unique person identifier
EXPLANATION	Unique identifier for use at local level and for record linkage with maternal data
INPUT OPTIONS	3-3-4 numerical format
DATA ORIGIN	BAPM, BNDS, CAR, CEMD, CESDI, HES, M-PAG, N-PAG

DATA ITEM	**Geographical Ethnic Origin (GEO)**
BASIS	Classification by origin to support medical data
EXPLANATION	The current ONS/Census groupings do not meet requirements for medical data. In the perinatal field, this includes detailing maternal ethnic origin when assessing fetal growth (as recommended by RCOG guidelines) and identifying those at risk for haemoglobinopathy screening. The GEO classification is now used across the West Midlands. However, the options do map to ONS requirements for NN4B submissions.

INPUT OPTIONS

Mutually exclusive pick list within each group

Africa
- North Africa
- Sub-Sahara
- Other

Asia
- India
- Pakistan
- Bangladesh
- China
- Far East Asia – Other
- South East Asia
- Other

Caribbean

Europe
- Britain
- Ireland
- Northern Europe
- Western Europe
- Southern Europe
- Other

Middle East

Other

DATA ORIGIN   BNDS, CDS, HES, M-PAG, N-PAG

B. BIRTH DETAILS

DATA ITEM	**Place of birth**
BASIS	Actual place of baby's birth
EXPLANATION	Required by Maternity HES dataset
	Important factor associated with outcome
	Allows changes of intent re place of delivery to be recorded
INPUT OPTIONS	This hospital – booked here
	This hospital – booked elsewhere in region
	This hospital – booked elsewhere, not in region
	This hospital – not booked
	Other hospital – this region
	Other hospital – not this region
	Home – booked at home
	Born before arrival
DATA ORIGIN	BAPM, BNDS, CDS, CESDI, HES, M-PAG, N-PAG, SS

DATA ITEM	**Date & time of birth**
BASIS	Date of birth of the baby
EXPLANATION	Required to derive patient age for analysis by age at admission or discharge, for screening, to assist clinical care
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	BAPM, BNDS, CDS, CESDI, HES, M-PAG, N-PAG

DATA ITEM	**Mode of delivery**
BASIS	Actual mode of delivery
EXPLANATION	Defines the method used to deliver a baby that is a registerable birth and is related to outcome
INPUT OPTIONS	Vaginal cephalic
	Vaginal breech
	Instrumental
	Caesarean section
DATA ORIGIN	BNDS, HES, M-PAG, N-PAG

DATA ITEM	**Birth order**
BASIS	The sequence in which the baby was born in a multiple birth
EXPLANATION	To analyse pregnancy outcome according to birth order and to identify the individual baby resulting from a multiple birth pregnancy
INPUT OPTIONS	Singleton
	First of twins
	Second of twins
	First of triplets, etc.
DATA ORIGIN	BAPM, BNDS, CDS, CESDI, HES, M-PAG

DATA ITEM	**Gestation**
BASIS	Number of weeks of age of baby at time of delivery calculated by first trimester dating ultrasound scan or menstrual date
EXPLANATION	A determinant of outcome
INPUT OPTIONS	Numerical format, expressed in weeks and days
DATA ORIGIN	BAPM, BNDS, CDS, CESDI, HES, M-PAG, N-PAG

DATA ITEM	**Birth weight**
BASIS	The first weight of the baby obtained after birth recorded in grams, ideally within an hour of delivery
EXPLANATION	Indicator of pregnancy outcome
	Major risk factor for neonatal mortality and morbidity
	Required to plan perinatal services for high risk babies
INPUT OPTIONS	Numerical format, expressed in grams
DATA ORIGIN	BAPM, BNDS, CDS, CESDI, HES, M-PAG, N-PAG

DATA ITEM	**Gender**
BASIS	Phenotypic classification of appearance of sex of baby at delivery
EXPLANATION	Required to analyse outcome by sex
INPUT OPTIONS	Male
	Female
	Not specified
	Not known
DATA ORIGIN	BAPM, BNDS, CDS, CESDI, HES, M-PAG, N-PAG

DATA ITEM	**Apgar score at 1 minute of age of baby**
BASIS	A measure of the baby's physical condition at birth
EXPLANATION	Low agpar score indicates need for resuscitation and is related to outcome
INPUT OPTIONS	Numerical format
DATA ORIGIN	HES, M-PAGN-PAG

DATA ITEM	**Apgar score at 5 minutes of age of baby**
BASIS	A measure of the baby's physical condition at 5 minutes of age
EXPLANATION	Low agpar score indicates need for resuscitation and is related to outcome. Five minute score is an indication of response to and effectiveness of resuscitation.
INPUT OPTIONS	Numerical format
DATA ORIGIN	HES, M-PAG, N-PAG

DATA ITEM	**Apgar score at 10 minutes of age of baby**
BASIS	A measure of the baby's physical condition at 10 minutes of age
EXPLANATION	Low agpar score indicates need for resuscitation and is related to outcome. Ten minute score is an indication of the need for resuscitation and of the response to resuscitation.
INPUT OPTIONS	Numerical format
DATA ORIGIN	M-PAG, N-PAG

DATA ITEM	**Professionals present at resuscitation**
BASIS	A measure of competency and seniority of personnel present at resuscitation
EXPLANATION	Staff trained in neonatal resuscitation favourably influence the management and outcome of an ill or preterm baby requiring resuscitation
INPUT OPTIONS	Midwife
	Neonatal Nurse
	ANNP
	SHO
	Specialist Registrar
	Consultant
	Other
DATA ORIGIN	CESDI, M-PAG, N-PAG

DATA ITEM	**Type of resuscitation**
BASIS	Identifies the method used to assist baby in establishing effective breathing
EXPLANATION	An indirect measure of the baby's physical condition at birth and response of professional present at birth to infants condition
INPUT OPTIONS	None
	Basic
	Advanced
DATA ORIGIN	CDS, HES, M-PAG, N-PAG

DATA ITEM	**Intermittent Positive Pressure Ventilation (IPPV)**
BASIS	Identifies method of delivering respiratory support
EXPLANATION	The need for endotracheal IPPV is an indicator of continuing need for airway support
INPUT OPTIONS	Face mask
	Endotracheal tube
	Both
	None
DATA ORIGIN	HES, M-PAG, N-PAG

DATA ITEM	**Intubated at delivery**
BASIS	Identifies whether baby required endotracheal intubation
EXPLANATION	The need for intubation is an indicator of need for continuing airway and /or ventilatory support
INPUT OPTIONS	Yes
	No
DATA ORIGIN	HES, M-PAG, N-PAG

DATA ITEM	**Age at intubation**
BASIS	Allows recording of age at which baby was intubated
EXPLANATION	A measure of the time taken to secure baby's airway during resuscitation and a means of recording compliance with RCPCH RDS guideline and surfactant administration
INPUT OPTIONS	Numerical format, expressed in minutes
DATA ORIGIN	M-PAG, N-PAG

DATA ITEM	**Surfactant administration at delivery**
BASIS	A record of administration of pulmonary surfactant at delivery
EXPLANATION	Surfactant is an effective prophylactic and replacement therapy for babies with respiratory distress syndrome/Hyaline Membrane Disease and some other neonatal conditions. Provides a means of recording compliance with RCPCH RDS guideline.
INPUT OPTIONS	Yes
	No
DATA ORIGIN	BAPM, N-PAG, RCPCH

D. ADMISSION DETAILS

DATA ITEM	**Date & time of admission**
BASIS	Date and time at which an inpatient episode of care commences
EXPLANATION	Required to analyse patient age at admission and discharge, length of stay
	Assists in record linkage in babies transferred between units
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	BAPM, HES, N-PAG

DATA ITEM	**Source of admission**
BASIS	Each separate care episode of the baby on the neonatal unit
EXPLANATION	Required to analyse outcome differences between inborn and out born babies.
	Describes movement of a high risk group of babies
INPUT OPTIONS	Delivery suite
	Delivery Theatre
	Other ward this hospital
	Home
	Transferred from another hospital after birth by their staff
	Retrieved by this hospital from another hospital after birth
	Other
DATA ORIGIN	BAPM, HES, N-PAG

DATA ITEM	**Temperature on admission**
BASIS	Axillary temperature taken with an electronic thermometer within fifteen minutes of admission to the neonatal unit
EXPLANATION	In the preterm baby, low temperature on admission is associated with increase in mortality and morbidity
INPUT OPTIONS	Numerical format, expressed in degrees Celsius
DATA ORIGIN	BAPM, N-PAG

DATA ITEM	**Vitamin K**
BASIS	Prevention of Vitamin K deficient bleeding of the newborn (VKDB)
EXPLANATION	Vitamin K administration prevents VKDB
INPUT OPTIONS	Given IV
	Given IM
	Given orally – no further doses needed
	Given orally – further doses needed
	Not given
DATA ORIGIN	DOH PL/CMO/98/3; DOH PL/CMO/98/4; DOH/HMSO 2000, M-PAG, N-PAG

DATA ITEM	**Antenatal Steroids (Betamethasone)**
BASIS	Intramuscular Betamethasone given to the mother at risk of preterm delivery
EXPLANATION	Antenatal steroids enhance foetal surfactant production and reduce neonatal morbidity and mortality in preterm babies
INPUT OPTIONS	None
	Incomplete course
	Complete course < 7 days before delivery
	Complete course > 7 days before delivery
	Multiple courses
DATA ORIGIN	BAPM, CESDI, M-PAG, N-PAG, RCOG, RCPCH

E. RESPIRATORY DETAILS

DATA ITEM	**Date & time of intubation (if not at delivery)**
BASIS	A record of need for intubation
EXPLANATION	Identifies whether baby required intubation to provide respiratory support following admission to neonatal unit and allows calculation of time to surfactant administration following intubation in baby with respiratory distress syndrome and recording of compliance with RCPCH RDS guideline
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	BAPM, N-PAG, RCPCH

DATA ITEM	**Date & time of 1st dose of surfactant**
BASIS	Allows calculation of time to surfactant administration following intubation in baby with respiratory distress syndrome
EXPLANATION	RCPCH recommend that surfactant should be given as soon after intubation as practical in babies with respiratory distress syndrome
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	BAPM, N-PAG, RCPCH

DATA ITEM	**Date & time of 2nd dose of surfactant**
BASIS	Record of whether a second dose of surfactant was given
EXPLANATION	A measure of the severity of respiratory distress syndrome
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	N-PAG

DATA ITEM	**Maximum base excess in 1st hour after delivery**
BASIS	An objective measure of the baby's acid-base status in first hour after delivery. Component of CRIB II score (clinical risk index for babies), which is a prognostic outcome tool.
EXPLANATION	A marker of condition at birth and response to 1st hour care
INPUT OPTIONS	Numerical format
DATA ORIGIN	BAPM, N-PAG

DATA ITEM	**Pneumothorax requiring drainage**
BASIS	The presence of a significant pneumothorax requiring drainage
EXPLANATION	Pneumothorax is associated with significant morbidity and is associated with some treatments
INPUT OPTIONS	Yes
	No
DATA ORIGIN	BAPM, N-PAG

DATA ITEM	**Days of ventilation via an endotracheal tube**
BASIS	Total number of days of ventilation of any type via an endotracheal tube
EXPLANATION	Allows calculation of a unit's experience of ventilation and allows comparison of duration of ventilation with differing practices
INPUT OPTIONS	Numerical format
DATA ORIGIN	BAPM, N-PAG

DATA ITEM	**Days of CPAP via any route**
BASIS	Total number of days of CPAP of any type
EXPLANATION	Allows calculation of a unit's experience of CPAP and allows comparison of duration of CPAP with differing practices
INPUT OPTIONS	Numerical format
DATA ORIGIN	BAPM, N-PAG

DATA ITEM	**Postnatal systemic steroids for Chronic Lung Disease**
BASIS	A record of whether systemic steroids given for treatment of chronic lung disease.
EXPLANATION	Postnatal systemic steroids for the treatment of chronic lung disease are associated with significant adverse neuro- developmental outcome. This is not to include systemic steroids administered to treat upper airway oedema. This is not to include inhaled steroids
INPUT OPTIONS	Steroids given None
DATA ORIGIN	N-PAG

DATA ITEM	**Date of final added Oxygen therapy**
BASIS	The date supplemental oxygen was finally stopped
EXPLANATION	Used to define chronic lung disease, which is associated with significant morbidity Excludes treatment with oxygen for an acute episode
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	BAPM

DATA ITEM	**Discharged home on oxygen**
BASIS	Baby on supplemental oxygen at time of discharge home
EXPLANATION	A measure of significant chronic lung disease. Has a resource implication for acute unit and for home care services
INPUT OPTIONS	Yes No
DATA ORIGIN	BAPM, N-PAG

F. NEUROLOGICAL DETAILS

DATA ITEM   **Encephalopathy**

BASIS   The presence of an encephalopathy as described Sarnat 1976

EXPLANATION   Moderate and severe encephalopathy are associated with significant adverse outcome. Presence of encephalopathy does not imply a specific aetiology.

INPUT OPTIONS   None

     Mild/grade 1

     Moderate/grade 2

     Severe/grade 3

DATA ORIGIN   BAPM, N-PAG

DATA ITEM   **Cranial Ultrasound scan findings (worst scan)**

BASIS   Recording of whether a cranial scan done and presence of intraventricular haemorrhage

EXPLANATION   Cranial ultrasound scan findings are associated with outcome

INPUT OPTIONS   Not done

     Normal

     Localised intraventricular haemorrhage

     Intraventricular haemorrhage with ventricular dilation

     Other

DATA ORIGIN   BAPM, N-PAG

DATA ITEM   **Ventricular size**

BASIS   A measure of ventricular size as described Levene 1981

EXPLANATION   Ventricular enlargement is associated with adverse outcome

INPUT OPTIONS   Normal

     Transient ventriculomegaly

     Persistent ventriculomegaly

     Ventriculomegaly shunted

DATA ORIGIN   BAPM, N-PAG

DATA ITEM   **Parenchymal lesions**

BASIS   Recording of intraparenchymal abnormalities

EXPLANATION   Persistent echodensity and cystic periventricular leucomalacia are associated with adverse neurodevelopmental outcome

INPUT OPTIONS   None

     Transient intraparenchymal echodensity (IPE < 14 days)

     Persistent IPE > 14 days

     Single large (porencephalic) cyst

     Multiple cysts (cPVL)

DATA ORIGIN   BAPM, N-PAG

G. CVS DETAILS

DATA ITEM	**Patent Ductus Arteriosus (PDA)– surgical ligation**
BASIS	Surgical treatment of patent ductus arteriosus
EXPLANATION	A measure of PDA requiring surgery. Has resource implication for neonatal transport services. This does not allow recording of data on the incidence of significant PDA or the outcome of treatment of PDA
INPUT OPTIONS	Surgery done
	No surgery
DATA ORIGIN	BAPM, N-PAG

H. INFECTION DETAILS

DATA ITEM	**Necrotising Enterocolitis**
BASIS	A baby with clinical and radiological criteria of necrotising enterocolitis
EXPLANATION	A measure of significant NEC as described by Bell 1978
	This does not include stage 1/suspected NEC
INPUT OPTIONS	None
	Stage 2/confirmed
	Stage 3/advanced
DATA ORIGIN	BAPM, N-PAG

DATA ITEM	**Necrotising Enterocolitis - treatment**
BASIS	A record of the treatment of stage 2 and stage 3 NEC
EXPLANATION	To measure outcome of treatment of NEC
INPUT OPTIONS	Conservative treatment (medical treatment to include peritoneal drain insertion)
	Surgery
DATA ORIGIN	BAPM, N-PAG

DATA ITEM   **Retinopathy of prematurity screening**

BASIS   The examination of the eyes for retinopathy of prematurity

EXPLANATION   To measure compliance with national recommendations

INPUT OPTIONS   Not screened (did not meet criteria)

                       Screened (met criteria)

                       Discharged before screening (screening to be arranged)

DATA ORIGIN   BAPM, N-PAG

DATA ITEM   **Retinopathy of prematurity staging**

BASIS   A record of worst stage of ROP in either eye

EXPLANATION   ROP is a significant adverse outcome

INPUT OPTIONS   No ROP

                       Stage 1

                       Stage 2

                       Stage 3

                       Stage 4

                       Stage 5

DATA ORIGIN   BAPM, N-PAG

DATA ITEM   **Retinopathy of prematurity therapy**

BASIS   A record of laser therapy given to treat ROP

EXPLANATION   The need for therapy for ROP is an indicator of severity of disease

INPUT OPTIONS   No therapy given

                       Therapy given

DATA ORIGIN   BAPM, N-PAG

DATA ITEM   **Congenital anomaly**

BASIS   Presence of a congenital anomaly excluding those detailed in EUROCAT

EXPLANATION   To measure incidence of congenital anomaly in babies admitted to neonatal unit

INPUT OPTIONS   Yes

                       No

                       Suspected

DATA ORIGIN   CAR, N-PAG

J. DISCHARGE DETAILS

DATA ITEM	**Discharge date**
BASIS	Date on which inpatient completes an episode of care either because of discharge or death
EXPLANATION	Required to derive length of stay and to assist in record linkage
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	BAPM, CDS, ENN, HES, M-PAG, N-PAG

DATA ITEM	**Reason for discharge**
BASIS	Record of reason for discharge from neonatal unit
EXPLANATION	Assists in record linkage within and between units
INPUT OPTIONS	Ready for discharge
	Died
	Other
DATA ORIGIN	N-PAG

DATA ITEM	**Discharge destination**
BASIS	Record of disposition of baby on completion of episode of care on neonatal unit.
EXPLANATION	Allows analysis of movement of babies within hospital and within region or Network. Assists record linkage of babies who move within a hospital and between hospitals.
INPUT OPTIONS	Home
	Other ward this hospital
	Died
DATA ORIGIN	BAPM, HES, N-PAG

DATA ITEM	**Discharge weight**
BASIS	Weight of baby at time of discharge
EXPLANATION	An important outcome measure of neonatal care. Has resource implications.
INPUT OPTIONS	Numerical format, expressed in grams
DATA ORIGIN	BAPM, M-PAG, N-PAG, SS

DATA ITEM	**Head circumference at discharge**
BASIS	Head circumference of baby at time of discharge
EXPLANATION	An important short and long term outcome indicator
INPUT OPTIONS	Numerical format, expressed in centimetres
DATA ORIGIN	BAPM, ENN, HES, M-PAG, N-PAG

DATA ITEM	**Method of feeding at discharge**
BASIS	A description of route and type of feeding at discharge
EXPLANATION	Allows calculation of breast feeding rate of babies leaving neonatal unit and incidence of nasogastric tube feeding. Not all babies discharged home tube feeding have major morbidity. Some babies may be tube fed at home transiently for short term reasons and others may be discharged home earlier as per unit policy
INPUT OPTIONS	Breast
	Bottle
	Breast and bottle
	Nasogastric tube
	Other
DATA ORIGIN	M-PAG, N-PAG, SS

DATA ITEM	**Date and time of death**
BASIS	A record of the date and time of death of the baby
EXPLANATION	Used to calculate duration of survival. An important outcome indicator which has resource implications
INPUT OPTIONS	DD/MM/YYYY; HH:MM (24 hour clock)
DATA ORIGIN	BAPM, CESDI, N-PAG

DATA ITEM	**Post Mortem examination**
BASIS	A record of whether post mortem performed and whether efforts made to obtain consent for same
EXPLANATION	Used to determine post mortem rate and refusal rate
INPUT OPTIONS	Consent given
	Consent declined
	Consent not requested
	Other
DATA ORIGIN	BAPM, CESDI, N-PAG

DATA ITEM	**Cause of death**
BASIS	A description of cause of death of a baby
EXPLANATION	An important outcome indicator
INPUT OPTIONS	As per Medical certificate of cause of death ONS
DATA ORIGIN	CESDI, ONS, N-PAG

K. TRANSFER DETAILS

DATA ITEM	**Transfer date**
BASIS	Date on which an inpatient completes an episode of care on neonatal unit and is transferred to another unit or hospital
EXPLANATION	Required to derive length of stay of babies who undergo a transfer and to assist in record linkage of transferred babies
INPUT OPTIONS	DD/MM/YYYY
DATA ORIGIN	BAPM, N-PAG

DATA ITEM	**Reason for transfer**
BASIS	A record of the reason a baby undergoes a transfer
EXPLANATION	To identify reasons for transfer between neonatal units and between neonatal unit and other types of unit. Has a resource implication. Used to determine reasons for transfer within and outside of network. Used to plan services
INPUT OPTIONS	For special care
	For neonatal intensive care
	For surgery
	For other specialist medical care
	For ECMO
	For NO
	For HFOV
DATA ORIGIN	N-PAG

DATA ITEM	**Transfer destination**
BASIS	A record of the transfer destination of a baby
EXPLANATION	To identify transport patterns regionally, within a network and nationally
INPUT OPTIONS	Select from a list of national hospital /unit codes
DATA ORIGIN	BAPM, N-PAG

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DATA ITEM   **Number of intensive care days**

BASIS   Any period of intensive care in 24 hours constitutes a day of intensive care

EXPLANATION   Used to measure the experience and activity of a neonatal unit

                       The highest level of care for any 24 hour period is used

INPUT OPTIONS   Numerical format

DATA ORIGIN   BAPM, N-PAG

DATA ITEM   **Number of high dependency care days**

BASIS   Any period of high dependency care in 24 hours constitutes a day of HD care

EXPLANATION   Used to measure the experience and activity of a neonatal unit.

                       The highest level of care for any 24 hour period is used

INPUT OPTIONS   Numerical format

DATA ORIGIN   BAPM, N-PAG

DATA ITEM   **Number of special care days**

BASIS   Any period of special care in 24 hours constitutes a day of special care

EXPLANATION   Used to measure the experience and activity of a neonatal unit.

                       The highest level of care for any 24 hour period is used

INPUT OPTIONS   Numerical format

DATA ORIGIN   BAPM, N-PAG

DATA ITEM   **Number of normal care days**

BASIS   Any period of normal care in 24 hours constitutes a day of special care

EXPLANATION   Used to measure the experience and activity of a neonatal unit and admission of

                       babies receiving normal care to assist in planning of services

                       The highest level of care for any 24 hour period is used

INPUT OPTIONS   Numerical format

DATA ORIGIN   BAPM, N-PAG