Neonatal resuscitation

For the management of neonatal resuscitation and supporting the transition of infants at birth, please follow the below resuscitation council guidelines (2021).

https://www.resus.org.uk/library/2021-resuscitation-guidelines/newborn-resuscitation-and-support-transition-infants-birth

Newborn Life Support Algorithm

Proforma for neonatal resuscitati

To access the Newborn Life Support Algorithm and Proforma for neonatal resuscitation, please scroll down to page 3 and 4.

Calling for help

Bleep:510 Paediatric SHO

607 Paediatric Reg

Inform them they are needed urgently and state location

If no answer – crash call via 2222

Putting out a crash call

Bleep 2222

Request the Neonatal Emergency Team

And state location

Neonatal Emergency Team includes:

Paediatric Registrar

Paediatric SHO

Neonatal Nurse

Please note this does NOT include the Neonatal Consultant

If they are required:

Bleep 2222

Request the On-call Neonatal Consultant

and state the location

Review

Review date	October 2024	
Approval recommended by	Maternity guideline group	Date: 14/10/2021
	Women's Business and Governance Meeting	Date: 21/01/2022
Approved by	CBU 3 Overarching Governance Meeting	Date: 23/02/2022
Distribution	Barnsley Hospital NHS Foundation Trust – intranet Please note that the intranet version of this document is the only version that is maintained. Any printed copies must therefore be viewed as "uncontrolled" and as such, may not necessarily contain the latest updates and amendments	

Resuscitation Council UK

GUIDELINES 2021

Newborn life support

(Antenatal counselling)
Team briefing and equipment check

Preterm < 32 weeks

Place undried in plastic wrap + radiant heat

Inspired oxygen
28–31 weeks 21–30%
< 28 weeks 30%

If giving inflations, start with 25 cm H_2O

Acceptable pre-ductal SpO_2	
2 min	65%
5 min	85%
10 min	90%

TITRATE OXYGEN TO ACHIEVE TARGET SATURATIONS

Birth
Delay cord clamping if possible

Start clock / note time
Dry / wrap, stimulate, keep warm

Assess
Colour, tone, breathing, heart rate

Ensure an open airway
Preterm: consider CPAP

If gasping / not breathing
- **Give 5 inflations (30 cm H_2O) – start in air**
- Apply PEEP 5–6 cm H_20, if possible
- Apply SpO_2 +/- ECG

Reassess
If no increase in heart rate, look for chest movement

If the chest is not moving
- Check mask, head and jaw position
- 2 person support
- Consider suction, laryngeal mask/tracheal tube
- Repeat inflation breaths
- Consider increasing the inflation pressure

Reassess
If no increase in heart rate, look for chest movement

Once chest is moving continue ventilation breaths

If heart rate is not detectable or < 60 min^{-1} after 30 seconds of ventilation
- Synchronise 3 chest compressions to 1 ventilation
- Increase oxygen to 100%
- Consider intubation if not already done or laryngeal mask if not possible

Reassess heart rate and chest movement every 30 seconds

If the heart rate remains not detectable or < 60 min^{-1}
- **Vascular access and drugs**
- Consider other factors e.g. pneumothorax, hypovolaemia, congenital abormality

Update parents and debrief team
Complete records

APPROX 60 SECONDS

MAINTAIN TEMPERATURE

AT ALL TIMES ASK **"IS HELP NEEDED"**

Barnsley Hospital NHS
NHS Foundation Trust

Name:……

D.O.B:……

Unit number:……
NHS Number:……

Proforma for Neonatal Resuscitation

		Time called for help:		**Room number**	
Date and time of birth:		**Gestation:**		**Room temp**	

Name of staff present	**Designation**	**Time called**	**Time arrived**

Procedure carried out	**Yes**	**Time**	**By whom**	**Comments/details of baby's response (changes in HR, Colour or Respirations)**
Cord clamped & cut				**Delayed Cord time:**
Baby dried & stimulated with warm dry towels & hat applied				**Resuscitaire temperature manually increased? Yes or No**
If less than 32 weeks –in bag				**DO NOT DRY BABY (less than 32 weeks)**
Inflation breaths				**Number:**
Ventilation breaths				**Type used T piece or self-ventilating:**
Cardiac compressions				
Any other procedures? Intubated? UVC?				Please state:
Temp of baby initially:				
Temp of baby at 15mins:				
APGAR Score	**1min**	**5 mins**	**10 mins**	
Heart rate				**Mode of birth:**
Respiration				**Heart rate at birth:**
Tone				**Time HR above 100bpm:**
Reflex response				**Time of onset of regular respirations:**
Colour				**Risk factors:**
Total:				

Acceptable pre-ductal SpO2 at:	**2 mins 65%**	**5 mins 85%**		**10 mins 90%**	
Actual SpO2:					
Cord gases	**Arterial PH:**	**Arterial Base excess:**	**Venous PH:**	**Venous Base excess:**	**Blood sugar:**

<u>Emergency drugs</u>	**<u>Time given</u>**	**<u>Dosage:</u>**
Adrenaline		**0.2ml/kg of 1:10,000 (if not effective try 0.3ml/kg of 1:10,000)**
Sodium bicarbonate		**2-4ml/kg (1-2mmol/kg 4.2% bicarbonate solution)**
10% Glucose		**2.5ml/kg (250mg/kg)**
0.9% Sodium chloride		**10ml/kg or O negative blood**
Interventions		**<u>Further documentation:</u>**

TIME	**O2 Saturations % (right hand)**	**PIP**	**PEEP**	**O2 % on blender**	**Ventilation Rate**	**Mask (M) ETT (E)**	**Chest Compressions**	**Notes (e.g. Curosurf, cold light, chest drain, UVC etc)**
30sec								
1 min								
2 min								
3 min								
4 min								
5 min								
6 min								
7 min								
8 min								
9 min								
10min								
…. min								
…. min								

Transferred to NNU	**Yes**	**No**	**Datix number**			
Placed in an incubator	**Yes**	**No**	**Temperature on transfer**		**Time of transfer**	
Print name:	**Designation:**		**Sign:**			