

Neonatal Outcome Trajectory

Infants Admitted to the NICU with GA 22-32 Weeks & Birth Weight 401–1000g

At Time of Birth or On Day 7	
Birth	
Gestational Age at birth	_____ (22 – 32)
Birth Weight	_____g (401 – 1000g)
Sex	Male Female
Apgar Score at 5 minutes	_____ (0 – 10)
Receipt of Antenatal Steroids	Yes No
Day 7	
Mean FiO ₂ on Day 7	_____ % (21 – 100)
Number of Days on CPAP by Day 7	_____ (0 – 7)
Grade of IVH by Day 7	None Grade I Grade II Grade III Grade IV

On Day 28 or at 36 Weeks	
Day 28	
Mean FiO ₂ on Day 28	_____ % (21 – 100)
Number of Days on CPAP by Day 28	_____ (0 – 28)
Number of Days of Parenteral Nutrition by Day 28	_____ (0 – 28)
Number of Episodes of Late Onset Culture Negative Clinical Infection by Day 28	_____ (0 – 28)
36 Weeks	
Number of Days on High Frequency Ventilation by 36w PMA	_____ (0 – 105)
Number of Days on Conventional Ventilation by 36w PMA	_____ (0 – 105)
Bronchopulmonary dysplasia at 36w PMA: On Ventilator or CPAP	Yes No
Enlarged ventricles on cranial ultrasound by 36w PMA	Yes No
Periventricular leukomalacia or porencephalic cyst by 36w PMA	Yes No

Birth NDI Outcome	
Delivery Room Intubation	Yes No
Outborn	Inborn Outborn
Day 7 NDI Outcome	
Number of Days on High Frequency Ventilation by Day 7	_____ (0 – 7)
Number of Days on Conventional Ventilation by Day 7	_____ (0 – 7)
Day 28 NDI Outcome	
Number of Days on High Frequency Ventilation by Day 28	_____ (0 – 28)
Number of Days on Conventional Ventilation by Day 28	_____ (0 – 28)

36 Week Death Outcome	
Mean FiO ₂ at 36w PMA	_____ % (21 – 100)
Number of Episodes of Late Onset Culture Negative Clinical Infection	_____ (0 – 10)
Number of Episodes of Late Onset Culture Positive Sepsis	_____ (0 – 10)
Number of Days on CPAP by 36w PMA	_____ (0 – 105)
Proven NEC by 36w PMA	Yes No

Enter the FiO₂ content in percent, e.g., enter 25 as 25 or 33.5% as 33.5.

Late onset culture-negative clinical infection and infection with late onset is defined as occurring >72 hours after birth and treated with antibiotics for >=5 days.

NDI is defined as a composite of MDI<70 or PDI<70 or moderate to severe CP or blindness or deafness.

Neonatal Outcomes Trajectory Calculator

Information Required for Obtaining Estimates for Specific Time Periods

Death or NDI at Birth requires the following input to be calculated; Gestational age, birth weight in grams, gender, Apgar score at 5 minutes, Birth – Antenatal Steroids.

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NDI at Birth requires the following input to be calculated; Birth weight in grams, gender, Delivery room intubation, birth location: inborn or outborn.

Death or NDI at Day 7 requires the following input to be calculated; birth weight in grams, gender, Mean FiO2 at Day 7 (%), numbers of days on CPAP at Day 7, Grade of IVH by Day 7.

Death at Day 7 requires the following input to be calculated; birth weight in grams, gender, Mean FiO2 at Day 7 (%), numbers of days on CPAP at Day 7, Grade of IVH by Day 7.

NDI at Day 7 requires the following input to be calculated; birth weight in grams, gender, Apgar score at 5 minutes, number of days on CPAP at Day 7, number of days on high frequency (HF) vent by day 7, number of days on a conventional (Conv.) vent by day 7.

Death or NDI at Day 28 requires the following input to be calculated; birth weight in grams, gender, Mean FiO2 at Day 28 (%), numbers of days on CPAP at Day 28, number of days receiving parenteral feeding at Day 28 and number of episodes of late onset culture clinical infection.

Death at Day 28 requires the following input to be calculated; birth weight in grams, gender, Mean FiO2 at Day 28 (%), numbers of days on CPAP at Day 28, number of days receiving parenteral feeding at Day 28 and number of episodes of late onset culture clinical infection.

NDI at Day 28 requires the following input to be calculated; birth weight in grams, number of episodes of late onset culture clinical infection, number of days on high frequency (HF) vent by day 28, number of days on a conventional (Conv.) vent by day 28.

Death or NDI at 36 weeks requires the following input to be calculated; gender, number of days on high frequency (HF) vent by 36wks, number of days on a conventional (Conv.) vent by 36wks, BPD: Vent or CPAP by 36wks, Ultrasound (U/S) showing enlarged ventricle (Ventr.) and ultrasound showing PVL or Porencephalic (Por.) Cyst.

Death at 36 weeks requires the following input to be calculated; BPD: Vent or CPAP, Mean FiO2 at 36 Weeks (%), number of episodes of late onset culture clinical infection, number of episodes of Late Onset Sepsis (LOS), numbers of days on CPAP by 36 weeks, proven NEC by 36 weeks, and number of days receiving parenteral feeding by 28 days.

NDI at 36 weeks requires the following input to be calculated; gender, number of days on high frequency (HF) vent by 36wks, number of days on a conventional (Conv.) vent by 36wks, BPD: Vent or CPAP by 36wks, Ultrasound (U/S) showing enlarged ventricle (Ventr.) and ultrasound showing PVL or Porencephalic (Por.) Cyst.