

**Write short Notes on:**

1. Antenatal markers of chromosomal disorders in the fetus.
2. Metanalysis.
3. Free radicals in health and disease in neonates.
4. Deficiency in neonatal host defenses predisposing to infection.
5. Choosing a ventilator for a newborn unit.
6. Science behind AAP guidelines on resuscitation.
7. Steroids in Neonatology.
8. Pain pathways and management of pain
9. Periventricular leucomalacia.
10. Erythroid development and anemia of prematurity.

**Write short Notes on:**

1. Refractory hypoglycemia in a neonate.
2. Intrauterine growth charts.
3. Approach to a neonate with ambiguous genitalia
4. Congenital diaphragmatic hernia – etiology and management.
5. Approach to a neonate with hypernatremia.
6. Probiotics – status in neonatal disease.
7. Neonatal Varicella infection.
8. Interpretation of a TORCH screen.
9. Post hemorrhagic hydrocephalus.
10. Hearing impairment in NICU graduates.

**Write short Notes on:**

1. Magnetic resonance spectroscopy.
2. Upscaling community based newborn care.
3. Perinatal arrhythmias – diagnosis and management.
4. Neonatal Registry
5. Amplitude integrated encephalogram.
6. Process indicators of quality care in NICU.
7. Surfactant – newer insights.
8. New Bronchopulmonary Dysplasia.
9. Evidence based newer interventions in management of hypoxic ischemic encephalopathy.
10. Role of macronutrients in neonatal nutrition – evidence based review.