Objective: The study was conducted to determine the risk of respiratory morbidity in infants delivered by elective cesarean section at term. It was conducted at Omdurman Maternity hospital during 2010 and 2011.

Methodology: It was a descriptive prospective hospital based analytic study; the data was collected by structured data collection sheet then

Results: The study included 3643 patients. The overall respiratory morbidity was 6.0 % (215/3643), out of them 3.0 % (111/3643) showed Transient Tachypnea of Newborn (TTN). 2.9% (104/3643) were complicated by Respiratory Distress Syndrome. It was found that 91 %( 3315/3643) of women delivered between 37- 40 weeks of gestational age. The affected neonates were reported among the neonates of multiparous women more than the primiparous (p value < 0.001) Most of the affected neonates were born to mothers with increased body mass index with significant association (p value <0.002)

Conclusion: The respiratory morbidity still carries risk among the neonates and is one of the main causes of neonatal intensive care unit admission. More input for protocol for the units, training for the staff and proper antenatal care are highly recommended.