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## Effect of surfactant therapy on clinical outcome of respiratory distress syndrome in premature neonates at French Medical Institute for mother and children

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Respiratory distress syndrome (RDS) of the newborn, also known as Hyaline Membrane Disease, is a breathing disorder of premature babies. In healthy infants, the alveoli—the small, air-exchanging sacs of the lungs are coated by surfactant, which is a soap-like material produced in the lungs as the fetus matures in preparation for birth. If premature newborns have not yet produced enough surfactant, they are unable to open their lungs fully to breathe. As the efforts, our hospital is to deliver health services in a best manner to have high quality of service delivery and a low number of mortality, although the RDS is high in Afghanistan, and there is no any reliable data, which show major causes death during in-bed hospitalization. Gradually increment of mortality rate of Respiratory Distress Syndrome at French Medical Institute for Mother and Children, based on observational and unreliable accurate data, is higher among preterm neonates versus term neonates. We are going to have a retrospective study, which will be the first study in Afghanistan in such area. To evaluate the effect of surfactant therapy on clinical outcome of RDS in neonates with prematurity (36-28-weeks, BW $\geq$ 800 gr). We employed a retrospective, review study design. All premature neonates who are admitted with the diagnosis of Respiratory Distress Syndrome at NICU ward of FMIC. Inclusion criteria: Neonates who will be hospitalized due to prematurity (28-36-weeks) and RDS. Exclusion criterion: Neonates who weighs less than 800 grams. Consecutive sampling will be utilized. All the records of neonates who are admitted between November 1st, 2017 to April 30th, 2018 will be reviewed. All records will be reviewed and necessary data will be extracted to the data collection and then will be transferred to a database to do analysis. Statistical Package for the Social Sciences (SPSS) version 22 was used to analyze the data. Results: The result will be forwarded. Conclusion: The result will be forwarded.

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