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# **Surfactant Replacement Therapy In Neonatal And Adult Respiratory Distress Syndrome**

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## **Surfactant Replacement Therapy In Neonatal**

Surfactant replacement therapy should

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be considered when the diagnosis is respiratory distress syndrome (RDS) based on clinical grounds +/- chest x-ray. Also consider surfactant replacement therapy if: the birth is at < 30 weeks in a special care nursery (SCN) setting; the infant is intubated, regardless of gestation and requiring  $FiO_2 > 0.4$

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## **Surfactant replacement therapy for neonates | Better Safer ...**

Surfactant replacement was established as an effective and safe therapy for immaturity-related surfactant deficiency by the early 1990s. 1 Systematic reviews of randomized, controlled trials confirmed that surfactant administration



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in preterm infants with established respiratory distress syndrome (RDS) reduces mortality, decreases the incidence of pulmonary air leak (pneumothoraces and ...

## **Surfactant Replacement Therapy for Preterm and Term ...**

Surfactant-replacement therapy is,

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unquestionably, the single most important advance in neonatal medicine of the past 20 years, and it is responsible for the largest decrease in neonatal mortality during that time.<sup>1</sup> Since surfactant deficiency was first implicated in neonatal respiratory distress syndrome (RDS), there have been hundreds of clinical trials and

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thousands of papers defining ...

## **Surfactant Therapy in Neonates and Beyond | RT**

Pulmonary surfactant (PS) replacement therapy has been established as a safe and effective treatment for immaturity-related surfactant deficiency since the early 1990s. 1 Systematic reviews have

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reported that surfactant administration in preterm infants with established respiratory distress syndrome (RDS) decrease the mortality rate, incidence of pulmonary air leak, and risk of chronic lung ...

## **Pulmonary Surfactant Replacement Therapy for Respiratory ...**

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Surfactant replacement therapy in neonatal respiratory distress syndrome. A multi-centre, randomized clinical trial: comparison of high- versus low-dose of surfactant TA. M. Konishi 1, T. Fujiwara 1, T. Naito 2, Y. Takeuchi 3, Y. Ogawa 4, K. Inukai 5, M. Fujimura 6, H. Nakamura 7 &

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## **Surfactant replacement therapy in neonatal respiratory ...**

Thus, the idea of surfactant replacement therapy is now more or less 20 years old and almost 10 years have passed since the first publication by Dr. Fujiwara of his impressive clinical results. Up to now (September, 1988) about 2,200 babies have been treated worldwide with

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tracheal instillation of surfactant, with most promising results.

**Surfactant Replacement Therapy - in Neonatal and Adult ...**

Surfactant Replacement Therapy in Neonates Page: 4 of 5 4.9 Following the procedure document in the integrated progress notes and monitor the infant

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for adverse effects. 4.10 If the endotracheal tube becomes obstructed take immediate action to clear the tube by giving

## **Title: Surfactant Replacement Therapy in Neonates**

c) All surfactant prescriptions should adhere to expected prescription



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standards as per Trust medicines management policy – Refer Appendix B 9. References 1. Polin, R.A., et al., Surfactant replacement therapy for preterm and term neonates with respiratory distress. Pediatrics, 2014. 133(1): p. 156-63. 2.

## **Surfactant Replacement Therapy for**

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## **Neonates with ...**

The American Exosurf Neonatal Study Group I, and the Canadian Exosurf Neonatal Study Group. N Engl J Med. 1991 Dec 12; 325 (24):1696-1703. Bose C, Corbet A, Bose G, Garcia-Prats J, Lombardy L, Wold D, Donlon D, Long W. Improved outcome at 28 days of age for very low birth weight infants treated

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with a single dose of a synthetic surfactant.

## **Neonatal surfactant replacement therapy. Fetus and Newborn ...**

Respiratory failure secondary to surfactant deficiency is a major cause of morbidity and mortality in low birth weight immature infants. Surfactant

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therapy substantially reduces mortality and respiratory morbidity for this population. The statement summarizes the indications for surfactant replacement therapy. Because respiratory insufficiency may be a component of multiorgan dysfunction in ...

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This statement summarizes the evidence regarding indications, administration, formulations, and outcomes for surfactant-replacement therapy. The clinical strategy of intubation, surfactant administration, and extubation to continuous positive

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airway pressure and the effect of continuous positive airway pressure on outcomes and surfactant use in preterm infants are also reviewed.

## **Surfactant replacement therapy for preterm and term ...**

Nowadays, the surfactant replacement therapy is a crucial part of the

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management of RDS. 2 The development of this therapy based on the discovery of surfactant is one of the biggest milestones in neonatology. ... surfactant replacement therapy has substantially reduced neonatal mortality in preterm babies over the last decades. 3.

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## **Surfactant replacement therapy - a milestone in ...**

Surfactant replacement therapy should be considered in: neonates with clinical and radiographic evidence of RDS; neonates at risk of developing RDS (e.g. <32 weeks or low birth weight <1300g) neonates who are intubated, regardless of gestation, and requiring  $FiO_2 >40\%$ ;



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Surfactant replacement therapy may be considered in:

## **Clinical Guidelines (Nursing) : Surfactant Administration ...**

Surfactant replacement therapy (SRT) has a proven role in the treatment of neonatal respiratory distress syndrome and severe meconium aspiration

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syndrome in infants, and may have a role in the treatment of pediatric patients with ARDS. Although newer delivery mechanisms and strategies are being studied, the classic surfactant administration paradigm consists of endotracheal intubation ...

## **Surfactant Replacement Therapy -**

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## **CHEST**

**Keywords:** Surfactant replacement therapy(SRT), Newborn, Survival, Risk factors, Mortality Accepted February 10 2012 Introduction Surfactant was the first drug developed exclusively for neonates [1]. Since the time when Fujiwara first published in 1980, the use of a modified bovine surfactant on ten

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## **Surfactant Replacement Therapy (SRT) in Respiratory ...**

Etiology of surfactant inactivation or dysfunction: pulmonary hemorrhage, sepsis, pneumonia, meconium aspiration, and post surfactant slump.  
Surfactant replacement therapy for RDS  
- Early rescue therapy should be

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practiced: First dose needs to be given as soon as diagnosis of RDS is made. RDS in a premature infant is defined as respiratory distress requiring more than 30% oxygen delivered by ...

## **Guidelines for surfactant administration (surfactant ...**

If surfactant therapy is to be given

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before transport, which may be beneficial given the distances to referral hospitals in some parts of Canada, the health care workers must be skilled in neonatal intubation, understand the changes in lung compliance and ventilation that can occur following surfactant use, and know the potential short-term side effects of surfactant

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replacement therapy.

## **Recommendations for neonatal surfactant therapy | Canadian ...**

This study guide is loaded with practice questions that can help you learn everything you need to know about Surfactant Replacement Therapy; plain and simple. Surfactant basically is a

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substance that is produced in the lungs that helps to decrease surface tension and ensure that the alveoli can expand properly so that oxygen can be transported throughout the body.

## **Surfactant Replacement Therapy: Overview and Study Guide**

Thus, the idea of surfactant replacement



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therapy is now more or less 20 years old and almost 10 years have passed since the first publication by Dr. Fujiwara of his impressive clinical results. Up to now (September, 1988) about 2,200 babies have been treated worldwide with tracheal instillation of surfactant, with most promising results.

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