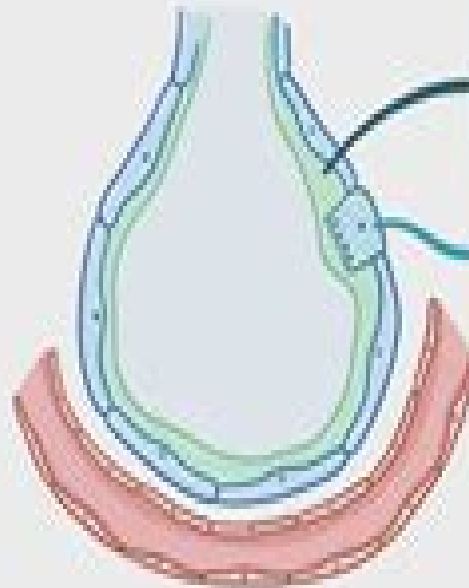


LUNG  
ALVEOLI



LUNG  
SURFACTANT

TYPE II  
PNEUMOCYTE

\* LIPOPROTEIN

\* KEEP ALVEOLI from  
COLLAPSING when  
AIR EXHALED

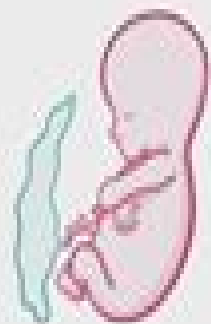
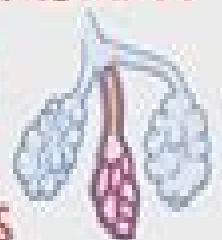


\* PRETERM BABIES < 35 WEEKS DON'T  
PRODUCE ENOUGH LUNG SURFACTANTS

↳ ALVEOLI COLLAPSE

↳ NEONATAL RESPIRATORY  
DISTRESS SYNDROME

↳ ADMINISTER EXOGENOUS  
LUNG SURFACTANTS



PRODUCTION  
BEGINS

week  
26

REACHES  
SUFFICIENT LEVELS

week  
35

# Lung Surfactants

**P. von Wichert**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Lung Surfactants:**

Lung Surfactants Robert H. Notter, 2000-07-18 Integrating basic and clinical research on the biophysical and physiological functions of pulmonary surfactants this practical reference presents thorough cutting edge coverage on surfactant related lung disease Manage neonatal respiratory distress syndrome RDS acute respiratory distress syndrome ARDS and acute lung injury more effectively

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**Pulmonary Surfactant** Jacques R. Bourbon, 1991-04-22 This book represents a comprehensive update on pulmonary surfactant by merging classical knowledge with new information Topics include surfactant secretion and alveolar processing and recycling physical bases and different theoretical models of the physiological mechanism for pulmonary surfactant action recent findings on surfactant like material in other organs developmental processes and multifactorial regulation etiology and physiopathology of neonatal respiratory distress and modern methods for functional explorations of the lung in neonates and experimental models in animals The book also contains a discussion on the management of hyaline membrane disease from both the experimental and clinical points of view

**Basic Research on Lung Surfactant** P. von Wichert, B.

Müller, 1990-01-05 Surfactants and the Lining of the Lung Emile M. Scarpelli, 1988 Pulmonary Surfactant Bengt

Robertson, Lambert M. G. van Golde, Joseph J. Batenburg, 1984 Lung Surfactant: Basic Research in the Pathogenesis of

Lung Disorders B. Müller, P. von Wichert, 1994-04-08 **Lung Surfactant Function and Disorder** Kaushik Nag, 2019-08-30

The only source to describe the lung surfactant as a complex membranous system this guide analyzes lung surfactant function from the aspects of molecular biology biophysics membrane science and surface and interface analysis and reviews the latest basic and clinical issues relating to lung disease and dys function

*Surfactant Replacement Therapy* Burkhard

Lachmann, 2012-12-06 I am very happy and honoured to have so many famous contributors from around the world

presenting their knowledge and experience in this book including Dr Rufer who as early as 1967 attempted to improve the pressure volume curve of a child dying from RDS using dried surfactant from dogs Drs Enhorn ing and Robertson who were the first to treat rabbit fetuses with surfactant replacement and impressively demonstrated that surfactant improved lung mechanics and Dr Fujiwara who at the end of the 1970 s had already successfully treated the first babies with surfactant

replacement and published this work already in 1980 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 tracheal instillation of surfactant with most promising results The type of surfactant used varies from pure natural extracts from bovine or pig lungs to surfactant extracted from human amniotic fluid to pure phospholipids To date however there is still no surfactant commercially available except in Japan in spite of the fact that it is urgently awaited by neonatologists and intensive care doctors throughout the world This volume is based on the contributions presented at the international congress on Surfactant Replacement Therapy which was held in Rotterdam The Netherlands in November 1987

**The Surfactant System of the Lung** M M Anceschi, E V Cosmi, G C Di Renzo, 2013-12-31      Lung Surfactant Bernd Müller, Peter Wichert, 1994      *Clinical Importance of Surfactant Defects* P. von Wichert, 1981-01-09      **The Surfactant System of the Lung** Emile M. Scarpelli, 1968      Pulmonary Surfactant System Ermelando V. Cosmi, Emile M. Scarpelli, 1983      *Lung Surfactant* Seamus A. Rooney, 1998      *The Biology of Surfactant* Brian A. Hills, 1988 This book attempts to explain the mechanisms by which surfactants specifically the surface active phospholipids exert their physiological functions in the body There is much controversy as to the role of surfactant in the lung and the veracity of the various alveolar models which are clearly evaluated in *The Biology of Surfactant* The text goes on to describe the nature of surfactant in the gastro intestinal tract joints and at tissue surfaces in other organs where it could have several useful functions These are related to work on synthetic surfactants which may shed light on natural mechanisms with important implications for medical research In each of these the underlying physico chemical principles are emphasized in a manner accessible to the biologist and physician By giving an overview of theories as to the role and mechanism of surfactants including his own forthright views Professor Hills has provided a comprehensive and stimulating text The volume will appeal to researchers and students of physiology paediatrics obstetrics rheumatology neonatology specialists in pulmonary physiology and chest diseases surgeons biochemists microbiologists whose work relates to surfactants in the lung and other organs      *Clinical Management and Experimental Models of Surfactant-related Lung Disease* G. Bevilacqua, 2002      Surfactant and the Respiratory Tract Laila Ekelund, Lars Malm, 1989      The Biology of Surfactant Brian Andrew Hills, 1988

## **Lung Surfactants** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Lung Surfactants**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Lung Surfactants Introduction**

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