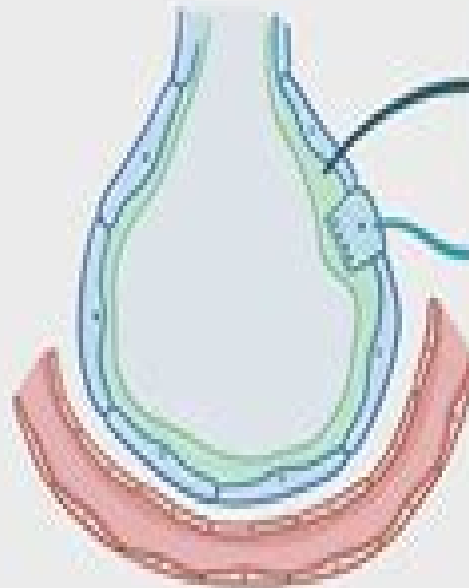


LUNG
ALVEOLI



LUNG
SURFACTANT
TYPE II
PNEUMOCYTE

- * LIPOPROTEIN
- * KEEP ALVEOLI from COLLAPSING when AIR EXHALED

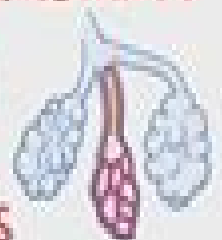


* PRETERM BABIES < 35 WEEKS DON'T PRODUCE ENOUGH LUNG SURFACTANTS

↳ ALVEOLI COLLAPSE

↳ NEONATAL RESPIRATORY DISTRESS SYNDROME

↳ ADMINISTER EXOGENOUS LUNG SURFACTANTS



Lung Surfactants

Robert H. Notter



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 *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 **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

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, 1992 There has been a spectacular development in both basic research on the pulmonary surfactant system and the clinical use of surfactant for treatment of lung diseases especially in the neonatal period In particular the molecular biology and physiological roles of the surfactant associated proteins SP A have been clarified during the last few years the structure and functions of these proteins therefore constitute an important hot topic and are reviewed in several chapters of this volume including surface chemistry and ultrastructure of surfactant components the role of surfactant in lung mechanics and alveolar liquid homeostasis and surfactant metabolism and its hormonal control However as mentioned above clinical applications of surfactant research have become increasingly important and are therefore dealt with extensively in the remaining chapters during the last few years to illustrate the fascinating complexity of the surfactant system Hence the main mission of this volume is to catalyze the future development in this field with the exchange of ideas between scientific workers from different disciplines **Coronavirus Disease**

(COVID-19): Pathophysiology, Epidemiology, Clinical Management and Public Health Response, 2023-01-25 Volume

I A An outbreak of a respiratory disease first reported in Wuhan China in December 2019 and the causative agent was discovered in January 2020 to be a novel betacoronavirus of the same subgenus as SARS CoV and named severe acute respiratory syndrome coronavirus 2 SARS CoV 2 Coronavirus disease 2019 COVID 19 has rapidly disseminated worldwide with clinical manifestations ranging from mild respiratory symptoms to severe pneumonia and a fatality rate estimated around 2% Person to person transmission is occurring both in the community and healthcare settings The World Health Organization WHO has recently declared the COVID 19 epidemic a public health emergency of international concern The ongoing outbreak presents many clinical and public health management challenges due to limited understanding of viral pathogenesis risk factors for infection natural history of disease including clinical presentation and outcomes prognostic factors for severe illness period of infectivity modes and extent of virus inter human transmission as well as effective preventive measures and public health response and containment interventions There are no antiviral treatment nor vaccine available but fast track research and development efforts including clinical therapeutic trials are ongoing across the world Managing this serious epidemic requires the appropriate deployment of limited human resources across all cadres of health care and public health staff including clinical laboratory managerial and epidemiological data analysis and risk assessment experts It presents challenges around public communication and messaging around risk with the potential for misinformation and disinformation Therefore integrated operational research and intervention learning from experiences across different fields and settings should contribute towards better understanding and managing COVID 19 This Research Topic aims to highlight interdisciplinary research approaches deployed during the COVID 19 epidemic addressing knowledge gaps and generating evidence for its improved management and control It will incorporate critical theoretically informed and empirically grounded original research contributions using diverse approaches experimental observational and intervention studies conceptual framing expert opinions and reviews from across the world The Research Topic proposes a multi dimensional approach to improving the management of COVID 19 with scientific contributions from all areas of virology immunology clinical microbiology epidemiology therapeutics communications as well as infection prevention and public health risk assessment and management studies

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

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