# ACUTE RESPIRATORY DISTRESS SYNDROME



## Etiology

#### Direct

- \* Pneumonia
- \*Aspiration Trauma

#### Indirect

- \*Sepsis Transfusion Rxn Pancreatitis
- \*> 85% of ARDS

# Ddx

- 1. CHF
- 2. Bilateral PNA

See ARDS Ddx Schema

## Consequences

- 1. V/Q Mismatch
- 2 ↓Compliance

# Pathophys

## **Exudative Phase**

2. Alveolar Macrophage

Activation

1. Insult/Injury -

3. Neutrophil Migration



4. Capillary Leakage of Protein-Rich Fluid & Microvascular Injury

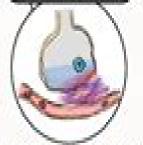
# (Proliferative Phase)



5. Endothelial Barrier Repair

- Recovery? --

## Fibrotic Phase



 Disruption of Normal Lung Architecture

# Diagnosis

- 1. Onset < 7 days
- 2. CXR/CT Bilateral Opacities
- 3. NOT Volume Overload or Cardiac
- 4. PaOz/FiOz < 300 mm Hg

Mild 300-200 Moderate 200-100 <100

# **Potential Therapies**

### **↓** Mortality

**Lung Protective Ventillation** 

- . 6ml/kg Ideal Body Weight
- Plateau Pressure < 30 mmHg

Proning (Mod-Severe)

+/-

- (+) Treat Underlying Cause
- (+) Titrate PEEP/FiO: to PaO: 55-88 mmHG

ARDS Net Tables

Conservative Volume Resuscitation Inhaled Vasodilators Recruitment Maneuvers ECMO

# **Acute Respiratory Distress Syndrome**

**Lorraine B. Ware** 

#### **Acute Respiratory Distress Syndrome:**

**Acute Respiratory Distress Syndrome** Michael A. Matthay,2003-07-11 Forty seven international specialists contribute 23 chapters documenting recent progress made in the research of the acute respiratory distress syndrome ARDS and clinical acute lung injury ALI at the molecular cellular and physiological levels and current pharmacological and ventilatory appro

Acute Respiratory Failure Warren M. Zapol, Konrad J. Falke, 1985 Acute Respiratory Distress Syndrome Sadatomo Tasaka, 2022-02-22 Divided into thirteen chapters this book provides a wealth of research oriented findings and practical guidance ranging from the definition epidemiology and pathophysiology to the diagnosis and management of the disease Although acute respiratory distress syndrome ARDS is defined by the acute onset of noncardiogenic pulmonary edema hypoxemia and the need for mechanical ventilation it is a heterogeneous disease entity which makes it difficult to develop specific therapies Treatment tends to focus on lung protective ventilation and no specific pharmacotherapies have been identified All chapters were written by respected experts in the field and summarize the latest trends share recent research findings and outline future prospects Specific chapters are devoted to novel promising diagnostic approaches such as microRNA which may improve our ability to identify early ARDS or at risk patients In addition a dedicated chapter explores cell based therapies and regenerative medicine which offer potential therapeutic options Acute Respiratory Distress Syndrome Advances in Diagnostic Tools and Disease Management offers a valuable reference guide not only for young physicians and trainees but also for experienced or teaching physicians medical educators and basic researchers Readers will find the latest information on ARDS and come to understand the current challenges encouraging them to further advance the diagnosis treatment and clinical research on this disease Acute Respiratory Distress Syndrome, An Issue of Critical Care Clinics, E-Book Michael Matthay, Kathleen Dori Liu, 2021-09-22 This issue of Critical Care Clinics quest edited by Drs Michael Matthay and Kathleen Dori Lui focuses on Acute Respiratory Distress Syndrome This is one of four issues each year selected by the series consulting editor Dr John Kellum Articles in this issue include but are not limited to Epidemiology Environmental Factors Clinical Diagnosis Physiology of ARDS including COVID 19 Pathogenesis Based on Clinical Studies Genetics of ARDS Ventilator Management and Rescue Therapy with ECMO Acute Kidney Injury and ARDS Pharmacologic Therapies and ARDS and Long Term Outcomes from ARDS Provides in depth clinical reviews on ARDS providing actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create these timely topic based reviews American Lung Association Fact Sheet: Adult (Acute) Respiratory Distress Syndrome (ARDS)., Presents a fact sheet on adult acute respiratory distress syndrome ARDS provided by the American Lung Association Discusses symptoms incidence causes and treatment ARDS Acute Respiratory Distress in Adults Timothy W. Evans, C. Haslett, 2013-11-11 Great progress has been made since the first description of the acute respiratory distress syndrome by

the Denver group in 1967 Lancet Although we introduced the term adult respiratory distress syndrome in our second and more detailed description of the syndrome ehest 1971 this was probably amistake for the simple reason that children also suffer the same syndrome following acute lung insults Today the syndrome of acute respiratory distress in adults ARDS is recognized as a worldwide problem but the prevalence of disease varies in different parts of the world A huge amount of research has focused on the mechanisms of acute lung injury and yet the exact sequence of events and media tors in inflammatory cascade which result in acute respiratory failure from ARDS is not known but many possibilities exist The definition of ARDS has been gradually modified in recent years and investigators around the world are now collaborating in order to establish more uniform concepts in identification risk factors and mechanisms of lung injury which someday will result in improved approaches to management Already at least some centers are showing improved outcomes in ARDS achieving an approximate 60% survival rate In the past most large series documented only about a 40% survivability taking all causes of ARDS This apparent progress is likely attributable to more meticulous and disciplined care than any specific pharmacologic attack on the basic mechanism resulting in ARDS Acute Respiratory Distress Syndrome James A. Russell, Keith R. Walley, 1999-05-28 ARDS A Comprehensive Clinical Approach focuses on the clinical assessment and management of patients with ARDS Severe Acute Respiratory Distress Syndrome, An Issue of Critical Care Clinics Lena M. Napolitano, Krishnan Raghavendran, 2011-07-28 This issue of Critical Care Clinics will focus on Severe Acute Respiratory DIstress Syndrome and dealing with it in the ICU Topics will include Challenges and Successes in ARDS Research Mechanical ventilation with Lung Protective Strategies What works Gene therapy for ALI ARDS High Frequency Oscillatory Ventilation in ALI ARDS Prone positioning therapy in ARDS Recovery and Long term outcome in ARDS and Experimental models and emergeing hypotheses for ALI and ARDS Shock and the Adult Respiratory Distress Syndrome Wolfgang J. Kox, David J. Bihari, 2012-12-06 The interrelated syndromes of shock and the adult respiratory distress to attract the attention of both clinical and syndrome ARDS continue laboratory scientists This reflects both the size of the problem and its unresponsiveness to current lines of treatment Doubtless a greater appreciation of the underlying pathophysiological disturbances during the past two decades has led to appropriate action and increased survival in the early stages but once established these syndromes have remained remarkably immune to a wide spectrum of therapeutic modalities This observation stresses the importance of prevention but also indicates the need for continued research into the nature of the established syndromes and the means whereby they may be reversed Drs Kox and Bihari are to be congratulated on bringing together within the covers of this volume many of the acknowledged European experts in these two fields of investigation Each author has provided an up to date account of his current experimental and clinical research and their com bined contributions makes fascinating reading Undoubtedly these are exciting times in the development of understanding of shock and ARDS Inevitably more questions are raised than answers provided but the accumulated knowledge presented here adds

significantly to our under standing of this complex biological jigsaw From this corporate endeavour will come the clinically useful developments of the future and with them the ultimate hope that the term refractory shock may be finally removed from our vocabulary Acute Respiratory Distress Syndrome, Second Edition Augustine M.K. Choi, 2009-11-23 The only available text to focus primarily on Acute Respiratory Distress Syndrome ARDS Thoroughly revised content and ten new chapters provide pulmonologists with the latest developments and applications of pharmacological and mechanical therapies needed to treat the debilitating and difficult condition of ARDS Highlights include the definition epidemiology pathology and pathogenesis of ARDS complications such as transfusion related injury and endothelium and vascular dysfunction the long term outcomes of ARDS host defense and infection the latest developments in ARDS therapy glucocorticoid therapy surfactant therapy mechanical ventilation and mesenchymal stem cells predictive factors gene expression profiling and biomarkers and chemokines and cytokines advances in management strategies fluid management non pulmonary and non sepsis management and glucose control Acute Respiratory Distress Syndrome Sadis Matalon, Jacob Iasha Sznajder, 2012-12-06 Proceedings of a NATO ASI held in Corfu Greece June 15 25 1997 **Pediatric Acute Respiratory** Distress Syndrome Steven L. Shein, Alexandre T. Rotta, 2019-08-22 This book provides a concise yet comprehensive overview of pediatric acute respiratory distress syndrome PARDS The text reviews the emerging science behind the new PARDS definition explores epidemiology pathobiology etiologies and risk factors reviews state of the art treatment modalities and strategies and discusses clinical outcomes Written by experts in the field Pediatric Acute Respiratory Distress Syndrome A Clinical Guide is a valuable resource for clinicians and practitioners who specialize in pediatric critical care Acute Respiratory Distress Syndrome, An Issue of Clinics in Chest Medicine, E-Book Sarina Sahetya, Eddy Fan, Shannon M. Fernando, 2024-10-22 In this issue of Clinics in Chest Medicine quest editors Drs Eddy Fan Shannon M Fernando and Sarina Sahetya bring their considerable expertise to the topic of Acute Respiratory Distress Syndrome Top experts discuss environmental risk factors for ARDS genetic and molecular risk factors for ARDS biomarkers of ARDS cellular mechanisms of lung injury ARDS phenotypes and precision medicine and more Contains 19 relevant practice oriented topics including prone positioning steroids and immunomodulatory therapy for ARDS early rehabilitation in ARDS extracorporeal support for ARDS long term outcomes PICS after ARDS ARDS in the immunocompromised patient future directions and more Provides in depth clinical reviews on acute respiratory distress syndrome offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice quidelines to create clinically significant topic based reviews *Acute Respiratory Distress* Syndrome Aachen Research Aachen Research Press, 2018-02-28 Acute respiratory distress syndrome ARDS firstly reported in 1967 is a life threatening syndrome The treatment of ARDS has not yet been fully established and the mortality still remains around 30% Although the precise mechanisms of ARDS have not fully understood pathophysiological investigation has

disclosed that inappropriate mechanical ventilation is associated with the initiation and the propagation of ARDS and lung protective strategy has been widely accepted in the clinical field to prevent ventilator associated lung injury In this thematic review series published by Journal of Intensive Care some authors introduced new causative factors for ARDS such as cell free hemoglobin or mismatched spontaneous breathing during mechanical ventilation Other reviews covered overall topics in ARDS the application of ECMO in ARDS or prospective biomarkers such as several pathogen associated molecular patterns PAMPs and damage associated molecular patterns DAMPs in ARDS Proceeds from the sale of this book go to support an Adult Respiratory Distress Syndrome Antonio Artigas, 1992 Covers recent advances in the scientific understanding of acute inflammatory respiratory failure with an emphasis on clinical relevance Discusses the definition incidence and prediction of ARDS and summarizes the results of therapy Also examines clinical problems of infection in the lungs tissue oxygen delivery and cardiovascular function during acute respiratory failure Other topics include the basis of respiratory mechanics measurements new lung imaging techniques effects of antiproteases in acute lung injury and new treatments Annotation copyrighted by Book News Inc Portland OR Acute Respiratory Distress Syndrome Herbert P. Weidemann, Michael A. Matthay, 2000 Acute Respiratory Distress Syndrome Marie C. Elie, Donna Carden, 2013-10-01 The acute respiratory distress syndrome ARDS is a complex disorder associated with rapidly progressive lung inflammation non cardiogenic pulmonary edema hypoxemic respiratory failure and one or more well defined risk factors including sepsis and severe trauma Since its original description in 1967 experimental and clinical evidence has provided considerable insight into the key roles deregulated systemic inflammation and coagulation play in this devastating clinical syndrome Despite substantial advances in our understanding of the pathogenesis of ARDS until recently little progress had been made in uncovering clinical strategies to improve the outcome of patients with ARDS However over the past 10 years protective ventilation and other supportive management strategies have been identified that markedly improve the outcome in ARDS More recently research has identified patients at risk for the development of the syndrome Currently clinical trials are underway Acute Respiratory Distress Syndrome, an Issue of Clinics in Chest Medicine Lorraine B. Ware, 2014-12-02 This issue of Clinics in Chest Medicine focuses on Acute Respiratory Distress Syndrome and covers topics such as Epidemiology and Definitions of ARDS and Early Acute Lung Injury Environmental Risk Factors for ARDS Clinical and Biological Heterogeneity in ARDS Direct vs Indirect Lung Injury Obesity and Nutrition Important Immunomodulators in ARDS Beyond SNPs Genetics Genomics and Other Omic Approaches to ARDS Clinical Approach to the Patient with ARDS The Immunocompromised Patient with ARDS Role of Invasive Diagnostic Strategies Clinical Trial Design in Prevention and Treatment of ARDS Beyond Low Tidal Volume Ventilating the Patient with ARDS Prone Positioning in ARDS and more Acute Respiratory Distress Syndrome Augustine M.K. Choi, 2016-04-19 The only available text to focus primarily on Acute Respiratory Distress Syndrome ARDS Thoroughly revised content and ten new chapters provide pulmonologists with the

latest developments and applications of pharmacological and mechanical therapies needed to treat the debilitating and difficult condition of ARDS Highlights include the definition *Etiology and Treatment of Acute Lung Injury* Sadis Matalon, Jacob Iasha Sznajder, 2001 This book contains contributions of internationally known basic scientists and clinicians with expertise in various aspects of lung injury and repair This monogram on the pathophysiology and treatment of Acute Lung Injury contains five different sections each one with contributions from both basic and clinical scientists outlining existing controversies an how they can be resolved by future multidisciplinary studies. The various sections discuss sodium transport and fluid clearance across the normal and injured lungs the role of the pulmonary surfactant in the pathogenesis and treatment of ARDS mechanisms and modification of acute and chronic lung injury ventilatory strategies for the management of acute respiratory distress syndrome and nitric oxide friend or foe

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