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The lung ultrasonography for the diagnosis of neonatal lung diseases

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Various lung diseases are the most common conditions and the leading cause of hospital admission and death in newborns. Generally, the differential diagnosis of lung diseases primarily relied on clinical manifestations, arterial blood gas analysis, conventional chest X-ray and computed tomography (CT) scans, the lung ultrasound is not typically applied when diagnosed neonatal lung diseases. However, chest X-ray and CT scans suffer from obvious limitations, while Lung ultrasonography (LUS) has become an important method for diagnostic examination and monitoring of lung disease. Many kinds of lung diseases, such as respiratory distress syndrome, transient tachypnea of the newborn, pneumonia, meconium aspiration syndrome, atelectasis and pneumothorax were diagnosed by chest x-ray or CT scan in the past, but can now easily be diagnosed with lung ultrasound. Lung ultrasound has many advantages over X-ray and CT scan including accuracy, reliability, low-cost and simplicity, as well as the fact that ultrasound incurs no risk of radiation damage. It is therefore feasible and convenient to perform at the bedside in a neonatal ward. This topic will focuses on the features of LUS in neonatal lung disease mentioned above and differentiating long-term oxygen dependence in premature infants; and thus to improve the application of ultrasound in pediatric respiratory diseases.

Biography

Jing Liu is the Leader and Director of the neonatal intensive care unit of Bayi Children's Hospital, the vice president of Bayi Children's Hospital Affiliated to the Army General Hospital of the Chinese PLA. His academic positions include Associate Chairman of Committee of PLA Academy of Pediatrics, Associate Chairman of Chinese Neonatologist Association and Editorial member of 20 Chinese and English Journals. He has published over 260 papers as a first author, 10 books and Chapters in Books. He is good at neonatal brain ultrasound and neonatal lung ultrasound, his research work has been supported by China Natural Science Foundation etc., and has won 10 awards for science and technology of the government of China.

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