

4th World Summit on Neonatology, Pediatrics and Developmental Medicine

July 17-18, 2023 | Zurich, Switzerland

Sundus Khuder, Neonat Pediatr Med 2023, Volume 09

New approach and management of persistent pulmonary hypertension in newborn

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Pulmonary Hypertension (PH) is a life-threatening condition in newborns characterized by high blood pressure in the arteries of the lungs. It can lead to significant morbidity and mortality if not managed appropriately. The approach to managing newborns with PH involves a thorough evaluation of the underlying cause and severity of the disease. Early recognition and diagnosis are crucial for prompt intervention and improved outcomes.

The role of three helps us to understand and manage Persistent Pulmonary Hypertension of the Newborn (PPHN) much better.

There are three causes of PPHN, there are three molecule pathways affect the pulmonary vessels, there are three types of management depend in the etiology and there are three echocardiography findings. In general, management strategies for PH in newborns aim to improve oxygenation, reduce pulmonary vascular resistance and enhance cardiac function.

Initial management includes supportive care measures such as supplemental oxygen, mechanical ventilation and inotropic support. In addition, pharmacologic interventions such as inhaled nitric oxide, prostaglandins and sildenafil may be used to reduce pulmonary vascular resistance and improve oxygenation. However, the use of these agents requires close monitoring and should be used judiciously to avoid adverse effects.

Extra-Corporeal Membrane Oxygenation (ECMO) may be used as a rescue therapy in refractory cases.

In conclusion, the approach to managing newborns with PH requires a multidisciplinary team approach involving neonatologists, pediatric cardiologists and intensivists. Early recognition and diagnosis, prompt intervention and close monitoring are essential for optimizing outcomes.

Biography

Sundus Khuder is a Pediatric consultant at Dibba Al-Fujairah Hospital. She is a Board director of global newborn society GNS. She is an Instructor of the neonatal resuscitation committee. She has completed fellowship of the Arab board of health at neonatologist subspecialty. She is an Instructor in mechanical ventilation course and Director of mechanical ventilation course, Iraq and Syria.

Received: March 18, 2023; **Accepted:** March 20, 2023; **Published:** July 17, 2023
