

Developmental changes in the pulmonary circulation: role of the nitric oxide/ soluble guanylate cyclase/cyclic GMP and the isoprostane pathways

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STELLINGEN

Behorend bij het proefschrift

Developmental changes in the pulmonary circulation: Role of the nitric oxide/ soluble guanylate cyclase/cyclic GMP and the isoprostane pathways

- Throughout fetal and neonatal life, the response to various vasoactive stimuli is probably dependent on the state of structural development of the pulmonary circulation and, perhaps more specifically, on the state of structural and functional maturation of specific receptors (*dit proefschrift*).
- In the early stages of life, where marked physiological changes take place, changes in the expression of a single protein often do not correlate with a complex functional response which involves the integrated activity of large number of proteins (*dit proefschrift*).
- The poor vasodilatory response to acetylcholine of neonatal pulmonary arteries is not due to the arterial smooth muscle cells being incapable of relaxation (*dit proefschrift*).
- An increased expression of soluble guanylate cyclase in pulmonary arteries explains, at least partly, the age-dependent increase in the vasorelaxant response of nitric oxide and other activators of soluble guanylate cyclase (*dit proefschrift*).
- Isoprostanes can act as vasoconstrictors or vasodilators in neonatal pulmonary arteries (*dit proefschrift*).
- Possibly, the most momentous change that has occurred in the field of vascular biology in the past 50 years has been the discovery and elucidation of the endocrine/paracrine roles of the endothelium (*R.W. Alexander and V.J. Dzau*).
- Members of the isoprostane family are biologically active and likely contribute to the pathogenesis of oxidant-induced injury and may mediate clinical features of diseases for which they are used as indicators (*L.J. Janssen*).
- Dutch paediatricians are aware of the efficacy of bicycle helmets for injury prevention but they appear to serve, either as health professionals or as parents, as poor role models for bicycle helmet implementation (*E. Villamor*).
- In Neonatology, all is based on tiny details.
- The three main principles of neonatal resuscitation are ventilation, ventilation and ventilation.
- Order is not pressure which is imposed on society from without, but an equilibrium which is set up from within (*J. Ortega y Gasset*).