Letter to the Editor

In vivo model for reversal of pulmonary blood flow in canines

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I read with interest the article of Abramov et al. [1] entitled ‘In vivo model for reversal of pulmonary blood flow in canines’. The authors state that their ‘experiment shows that reversed pulmonary circulation can maintain life in a canine model’.

I would like to mention that Keith et al. [2] reversed the pulmonary circulation of the left lower lobe in dogs in 1962 and Reed [3] reversed the pulmonary circulation of the entire right canine lung in 1965. Reed reported that one animal survived 3.5 months after total reversal of pulmonary circulation (RPC) of the right lung and died 5 days following ligation of the left pulmonary artery. My colleagues and I [4] reversed the entire pulmonary circulation of both lungs in dogs. Three animals survived 20–70 h following RPC of the second lung. We found that ‘the pathological changes in the lung after RPC are not incompatible with life’ and concluded that RPC ‘affords a new experimental model for in vivo study of pulmonary pathophysiology’.

References


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