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EVENTRATION OF THE DIAPHRAGMA AND RADIONUCLEAR REGIONAL LUNG FUNCTION TESTS IN CHILDREN

H.Ishida,A.Hayashi,S.Kamagata,S.Ueno,
K.Sugitani,K.Murakoshi,Y.Fujimoto,I.Ohwaki,
M.Kobayashi,A.Fujii,A.Kojima and K.Ishii.
Tokyo Metropolitan Kiyose Childrens Hospital

1125 regional lung function tests using Xe-133 gas and Tc-99m MAA were performed for the children, ranged new born baby to 17 years old. 68 of 158 tests performed for the disease of diaphragm were for the eventration of the diaphragm. Lung volume and vascular bed of the affected side were decreased up to $32.56 \pm 9.92\%$ on the V map and $29.23 \pm 9.83\%$ on the Q map. The recovery after the plication of the diaphragm was satisfactory on ventilation (V map), but not so good on perfusion (Q map). According to the phase analysis of the postoperative cases relatively high amplitude were seen in the lower part of the both lung and no delay of phase on both lung. So, it is conceivable that the delay of the recovery of the lung function is due to the hypofunction and hypoplasia of the compressed lung.
