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Prospective Study

Tchnetium-99m-labeled macroaggregated albumin lung perfusion scan for diagnosis of hepatopulmonary syndrome: A prospective study comparing brain uptake and whole-body uptake

He Zhao, Jiaywei Tsauo, Xiao-Wu Zhang, Huai-Yuan Ma, Ning-Na Weng, Gong-Shun Tang, Xiao Li

Abstract

BACKGROUND

Hepatopulmonary syndrome (HPS) is an arterial oxygenation defect induced by intrapulmonary vascular dilatation (IPVD) in the setting of liver disease and/or portal hypertension. This syndrome occurs most often in cirrhotic patients (4%–32%) and has been shown to be detrimental to functional status, quality of life, and survival. The diagnosis of HPS in the setting of liver disease and/or portal hypertension requires the demonstration of IPVD (i.e., diffuse or

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Author: Devaki Shilpa Sudha Surasi, Padma ... Publish Year: 2015

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A 99m Technetium-macroaggregated albumin (MAA) perfusion lung scan can be used to quantify and follow the degree of intrapulmonary shunting; an MAA shunt fraction of 27.8% was highly specific for intrapulmonary shunting associated with hypoxia. 44, 45 Unlike HPS, screening procedures for PPHN ...

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Author: Devaki Shilpa Sudha Surasi, Padma ...

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The MAA particles will pass the lungs (or portions of the lungs) to the systemic circulation and accumulate in richly perfused organs, especially the brain and kidneys. 36 This provides a theoretical basis for quantification of the shunt, by making a whole-body planar image registration after administration of [99m Tc]MAA and comparing the lung uptake with the extrapulmonary activity. A