Res clearance in humans

Does re clearance relate to phagocytosis?

They have many functions, but tests of RES clearance relate to phagocytosis. The purpose of this chapter is to review critically the methods that are currently available for investigating RE clearance in man.

Are res phagocytic or mononuclear?

The RES consists of a widely distributed population of fixed and wandering cells which share the common property of being highly phagocytic (Aschoff, 1924). All the cells are mononuclear phagocytes, or macrophages, derived from bone marrow precursors (Langevoort et al, 1970).

What is the phagocytic capacity of res in man and dog?

I. Measurement of the phagocytic capacity of the RES in man and dog. The phagocytic capacity of the RES in both man and dog was determined experimentally with the analytical method of Michaelis and Menten, and the maximal rate ofphagocytosis of aggregated albumin was 1.07 mg per minute per kg of body weight.

Since blood clearance is also a characteristic function of cells of RES, it was suggested in the late 1960s that RES is identical to MPS, and it was proposed that the term RES be replaced with MPS.

To evaluate the reticuloendothelial system (RES) function by real-time imaging blood clearance as well as hepatic uptake of superparamagnetic iron oxide nanoparticle (SPIO) using ...

The reticuloendothelial system (RES) is a heterogeneous population of phagocytic cells in systemically fixed tissues that play an important role in the clearance of particles and soluble substances in the ...

Many studies have been conducted to decrease the RES clearance and increase the circulation lifetime of iron-oxide particles by modifying particle characteristics, such as the size, charge, surface ...

Human data on the RES and its possible role in MOF are sparse. Therefore, our prospective clinical study compares the function of the RES in patients with multiple trauma who develop late organ ...

Although no liposomes are yet available for the study of RES clearance, rapidly increasing experience with manipulation of the biodistribution of liposomes in humans (Hnatowich and Clancy, 1980) raises ...

Res clearance in humans

The importance of the RES in clearing the virus from the blood can be demonstrated experimentally where removal of macrophage from the blood using macrophage-specific antibodies results in a ...

During the years that followed after Aschoff had originated the concept of RES, research on macrophages and their role as phagocytes steadily increased, and in 1960 the concept of the mononuclear phagocyte system was proposed to denote all cells identified as macrophages. The cells of MPS, by way of their common functional signature as professional phagocytes, clear particulate matter such as bacteria, fungi, viruses, and dying cells from the circulation. Since blo...

IntroductionReticular Connective TissueCompositionRegulation of The Reticular Endothelial SystemThe reticuloendothelial system (RES) is a heterogeneous population of phagocytic cells in systemically fixed tissues that play an important role in the clearance of particles and soluble substances in the circulation and tissues, and forms part of the immune system. Substances that are cleared include immune c...See more on physio-pedia ScienceDirectReticuloendothelial System - an overview | ScienceDirect TopicsThe importance of the RES in clearing the virus from the blood can be demonstrated experimentally where removal of macrophage from the blood using macrophage-specific ...

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