

## عنوان مقاله:

[Preparation of human serum albumin microspheres (MSA) kit for lung imaging in Iran] [Persian]

## محل انتشار:

مجله پزشکی هسته ای ایران, دوره 2, شماره 1 (سال: 1373)

تعداد صفحات اصل مقاله: 12

## نویسندگان:

Ali Asghar Yaraghchi - *Department of Radioisotope, Nuclear Research Center, AOEI, Tehran, Iran*

Reza Najafi - *Department of Radioisotope, Nuclear Research Center, AOEI, Tehran, Iran*

## خلاصه مقاله:

Radiolabeled Microspheres of human serum albumin (MSA) is of great importance in the analysis of regional lung perfusion. Preparation of MSA kit has been installed in our Division recently is carried out in two stages: ۱. Production of albumin sphere particles with suitable sizes by using the spinning disk technique. ۲. Formulation of MSA as a radiopharmaceutical kit. So it can be labelled simply with TC - ۹۹m in a short time and uptaken by the lungs within ۱۵ mins when injected intravenously. More than ۹۰% of Microsphere particles of injected dose are trapped by about ۰.۲% of pulmonary capillaries, which remain essentially unchanged within the first two hours after injection. After labelling the suspended Microspheres having a diameter between ۱۰-۵۰ mm and there are about ۷۵۰۰۰۰ to ۸۵۰۰۰۰ particles by vial. The biological half life of Microspheres in the lungs is ۴ hours. All the procedure of preparation is under control and each vial is presented sterile, Pyrogen-free Lyophilized Mixture under vacuum. No significant antigenic properties have been observed with denatured Albumin. The observed symptoms were attributed rather to the size and quantity of injected Microspheres. Many patients had repeated lung scans. However, no case of anaphylatoid reaction to human albumin microsphere has been reported.

## کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1476344>

