



 **Current Issue**

 **Browse Issues**

 **Search**



 **About this Journal**

 **Instruction to Authors**

 **Online Submission**

 **Subscription**

 **Contact Us**



 **RSS Feed**

Acta Medica Iranica

2009;47(4) : 9-17

"Comparison of biodistribution of ¹¹¹In-Tropolone leukocytes and 125I-human nonspecific polyclonal IgG in normal and induced inflammation mice for detection of inflammation "

Shah Hosseini S, Hadizad T, Babaei MH, Najafi R

Abstract:

Human nonspecific polyclonal IgG and granulocytes, which accumulate in inflammation foci, were radiolabeled with 125I and ¹¹¹In-Tropolone, respectively. Biodistribution of these two radiolabels was assessed in normal and inflammation-induced mice. 125I-IgG showed better localization to the inflamed areas. Blood levels with ¹¹¹In-Tropolone leukocytes were lower at all time points. In addition, the inflammatory thigh-to-blood ratios showed an improvement, whereas the ratios of inflammatory thigh-to-other normal tissues were higher for 125I-IgG than ¹¹¹In-Tropolone leukocytes. In conclusion, labeled IgG due to better localization in inflamed sites and higher target-to-background ratios is more suitable agent than labeled leukocytes for immunoscintigraphy of inflammation.

Keywords:

Immunoscintigraphy . Acid citrate dextrose (ACD) . Hydroxy ethyl starch (HES) . Immunoglobulin (Ig) . Percent injected dose per gram tissue (%ID/g)

TUMS ID: 1287

Full Text HTML  Full Text PDF  1589 kB

top ▲

[Home](#) - [About](#) - [Contact Us](#)

TUMS E. Journals 2004-2009
Central Library & Documents Center
Tehran University of Medical Sciences

Best view with Internet Explorer 6 or Later at 1024*768 Resolutions