

عنوان مقاله:

Comparing the diagnostic efficacy of [99mTc]Tc-HYNIC-PSMA-11 SPECT/CT scanning after Ya minutes and F hours of radiotracer injection in men with prostate cancer

محل انتشار:

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نویسندگان:

Azadeh Sahebkari - Nuclear Medicine Research Center, Mashhad University of Medical Sciences, Mashhad, Iran

Salman Soltani - Kidney Transplantation Complications Research Center, Mashhad University of Medical Sciences, Mashhad, Iran

Hamidreza Ghorbani - Kidney Transplantation Complications Research Center, Mashhad University of Medical Sciences, Mashhad, Iran

Kamran Aryana - Nuclear Medicine Research Center, Mashhad University of Medical Sciences, Mashhad, Iran

Mona Kabiri - Pharmaceutical Nanotechnology Research Center, School of Pharmacy, Mashhad University of Medical Sciences, Mashhad, Iran

Kayvan Sadri - Nuclear Medicine Research Center, Mashhad University of Medical Sciences, Mashhad, Iran

Mahdi Mottaghi - Kidney Transplantation Complications Research Center, Mashhad University of Medical Sciences, Mashhad, Iran

Atena Aghaee - Nuclear Medicine Research Center, Mashhad University of Medical Sciences, Mashhad, Iran

خلاصه مقاله:

Introduction: Prostate-Specific Membrane Antigen (PSMA) is overexpressed in primary and metastatic prostate carcinoma (PCa) and could be targeted by a [99mTc]Tc-HYNIC-PSMA-11 scan for detection of metastases. Despite extensive studies, data on the most appropriate interval between radiopharmaceutical injection and image acquisition is scarce. We compared the metastasis detection rates of the [99mTc]Tc-HYNIC-PSMA-11 scan between Ya-minute and F-hour intervals of radiopharmaceutical injection. Methods: From May YoY1 to May YoY2, we studied Wo consenting men with pathologically confirmed PCa who were referred to our department requesting a PSMA scan for primary staging, biochemical recurrence, pre-\YYLu-PSMA therapy, or surveillance. Y\u00e4-minute and \u00a8-hour [99mTc]Tc-HYNIC-PSMA-11 SPECT/CT scan performed following injection of the radiopharmaceutical. The corresponding metastasis detection rates were evaluated in Ya-minute and F-hour intervals. Results: The mean age of patients was FA.FF±9.FI years, with a median PSA of F.19 ng/ml and a median Gleason Score of λ. Nine cases had negative [99mTc]Tc-HYNIC-PSMA-11 scans, while Y1 had positive scans (A cases with bone, Y with lung, F with lymph node, and Y with multiple organ metastases). All metastases were detected in both checkpoints, except for one patient, where Ya-minute images detected three pelvic metastatic lymph nodes, while four were seen in the F-hour scan. This small missed right external iliac lymph node did not change the patient's management. Conclusion: We found no significant difference in the detection rate of metastatic lesions in Ya-minute and F-hour time intervals. These findings could help to decrease . waiting time and by more efficient scheduling improves patient's satisfaction at nuclear medicine departments

کلمات کلیدی: ۹۹mTc]Tc-HYNIC-PSMA -۱۱, prostate cancer, Scintigraphy, SPECT/CT, Metastasis]

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