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Uterine leiomyomas in the differential diagnosis upon ^{99m}Tc-EDDA/HYNIC-TOC interpretation

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The diagnostic algorithm of neuroendocrine tumours encompasses somatostatin receptor scintigraphy as a useful non-invasive method which shows high sensitivity and specificity. This technique also indicates the option of targeted therapeutic "cold" or "hot" (radiolabeled) somatostatin analogue application. We present three cases of uterine leiomyomas with or without uterus dislocation, identified by ^{99m}Tc-EDDA/HYNIC-TOC (Tektrotyd) in women of different ages. Images obtained 75 min up to 240 min after injection of 740 MBq of ^{99m}Tc-labeled EDDA/HYNIC-TOC show areas of abnormally increased uptake in pelvis, with or without bladder compression. Our cases indicate that somatostatin receptors may be present in the uterus and in leiomyomas, irrespective of age. The findings were confirmed by other imaging modalities, such as US, CT and/or MRI. Uterine leiomyoma(s) somatostatin receptor expression proposes the potential utilization of somatostatin analogues in the non-invasive treatment armamentarium of these disease entities. Limited literature reports, compatible with our observations, highlight the significance of this finding in the differential diagnosis of respective positive studies.

Biography

Valsamaki P has completed her PhD from Aristotle University School of Medicine of Thessaloniki, Greece and postgraduate studies from Aristotle University of Thessaloniki, National and Kapodistrian University School of Medicine of Athens, Greece, and Nuclear Medicine Department, University of Bologna, Italy. She works as consultant in the Nuclear Medicine Department of the UGHospital Alexandra, Athens, Greece. She has published more than 25 papers in reputed journals, participated in more than 10 research protocols, received highlights distinction in 10 presentations/articles, and has been serving as an Editorial Board Member (HJNM) and as a reviewer (ANM) of repute.

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