

Multiparametric MRI diagnostic value in a case of prostate cancer

Gelu Adrian Popa^{1,4}, Ioana Gabriela Lupescu^{1,4}, Emi M. Preda^{1,4}, Cristina Nicolae¹, Anca Filip Flintoaca¹, Răzvan Alexandru Capșa^{1,4}, C. Scheau^{1,4}, A. Dijmarescu^{1,4}, Mihaela Mihai², A. Preda³

¹Radiology, Medical Imaging and Interventional Radiology Department, Fundeni Clinical Institute, Bucharest, Romania

²Department of Histopathology, Fundeni Clinical Institute, Bucharest, Romania

³Center for Urology and Renal Transplantation, Fundeni Clinical Institute, Bucharest, Romania

⁴University of Medicine and Pharmacy «Carol Davila», Bucharest, Romania

Abstract

Prostate cancer (PC) is one of the most prevalent malignant tumour in men, especially in elderly patients. The aim of this paper is to present and illustrate the utility of multiparametric (MP) MRI in the diagnostic of PC. A 66 years old patient with clinical suspicion of PC was explored by MP MRI. The MR examination included T2-wi, dynamic contrast-enhanced (DCE) MRI and diffusion-weighted imaging (DWI) acquisitions. The final MR diagnosis was prostate tumor with the TNM-stage T4 N1 Mx. Radical prostatectomy revealed a Gleason score 7 (4+3) adeno-carcinoma with extraprostatic extension. This case report shows the utility of MP MRI exam in characterizing and for the management of PC.

Key words: prostate cancer, MP MRI, ADC map, DCE

Corresponding author:

Ioana G.Lupescu and Popa Gelu-Adrian

Radiology and Medical Imaging Department, Fundeni Clinical Institute

258 Fundeni Str., Sector 2, 022328 Bucharest, Romania

E-mail: ilupescu@gmail.com

geluadrianpopa@yahoo.com