



“Gheorghe Asachi” Technical University of Iasi, Romania



IONIZING RADIATIONS DOSE CENTRALIZATION FOR PATIENT OVEREXPOSURE PREVENTION IN CT MEDICAL EXAMINATIONS

Alin Cordoș^{1*}, Aurel Vlaicu¹, Bogdan Orza¹, Angela Cordoș²

¹*Technical University of Cluj-Napoca, Memorandumului St., No. 28, Cluj-Napoca*

²*Spitalul Clinic de Recuperare Cluj-Napoca, Viilor St., 46-50, Cluj-Napoca*

Abstract

In this article we describe a centralized system on local, regional or national level, used for monitoring the amount of ionizing radiation to which patients were exposed after medical investigations, done through a noninvasive medical imaging device called Computed Tomography (CT). The data flow in this centralized system is realized in three main stages: acquisition of data on radiation dose, centralizing data and processing data to generate reports. It is imperative for a nationwide system to avoid overexposing patients to X-rays.

Key words: DICOM, dose reports, ionizing radiation, OCR, medical images

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□ Author to whom all correspondence should be addressed: e-mail: alin_cordos@yahoo.com; Phone: +40 744 523 068