

DOT METHOD OF 3D CONTACT TOMOGRAPHY AND ITS APPLICATIONS FOR EARLY DIAGNOSTICS, SCREENING, IDENTIFICATION AND MONITORING OF POPULATION DISEASES

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Abstract. The present-day situation in prophylactic medical examination and screening in Russia is discussed. The conclusion is done, that this important sphere of preventive medicine in many respects mismatches criteria Wilson – Jungner and practically does not carry out the applicability. An analysis of hardware methods of screening and early diagnostics is performed. The application of standard techniques for screening and early diagnostics of cancer is considered. Absolutely safe DOT method providing a number of advantages at application in screening and early diagnostics in relation to existing methods of radiological diagnostics is offered.

Keywords: preventive maintenance, screening, monitoring, vascularization.