

ACCEPTANCE AND CONSTANCY TESTS FOR DIGITAL ANGIOGRAPHIC UNITS

V. Tsapaki¹, R. Padovani², E. Vano³, A. Schreiner⁴, V. Neofotistou⁵, S. Kottou⁶

¹Konstantopoulio Agia Olga Hospital, 3-5 Agias Olgas Str., Nea Ionia, Athens, Greece

²Medical Physics Department, Az. Ospedaliero-Universitaria Udine, Italy

³Medical Physics Department, San Carlos Hospital, Complutense University, Madrid, Spain

⁴Ministry of Health, Radiation Protection Department, Villa Louvigny, Allée Marconi,
L-2120 Luxembourg

⁵Athens General Hospital “G. Gennimatas”, Mesogion 154, Athens, Greece

⁶Medical Physics Dpt, Medical School, University of Athens, Micras Asias 75 Str, Athens,
Greece

During SENTINEL a protocol for acceptance and constancy checks for angiography units using digital flat panel detectors has been developed in order to harmonize practice among European countries. The protocol includes measurements of tube and generator performance, patient and detector entrance air kerma for fluoroscopic and radiographic mode, KAP and cumulative dose correction factors.

After display monitor is set-up, image quality is assessed by means of High and Low Contrast Resolution. Finally the isokerma maps supplied by manufacturer are verified.

The protocol has been circulated in six participating European countries and the results will be presented.

E-mail presenting author: Virginia@otenet.gr