



Leading  
Innovative  
Vascular  
Education

May 26-28  
2016

Du Lac Hotel  
and Congress Center  
Ioannina, Greece

<http://www.live2016.gr>

Organized by:



Institute of Vascular  
Diseases (IVD), Greece

In collaboration with:



Hellenic Society of Vascular  
and Endovascular Surgery



Stony Brook University  
Medical Center, New York, USA

Thursday, May 26<sup>th</sup> 2016

10:00 – 14:00

PRE SYMPOSIUM COURSE

Radiation Protection in Fluoroscopy-guided Medical  
Interventions

Course Director: **John Kalef-Ezra (Greece)**

#### Workshop Description:

The average annual radiation burden of the Greek population from medical acts contributes to 90% of its total radiation burden from artificial sources of ionizing radiation and it is equal to 2/3 thereof from natural sources. Moreover, among health professionals, the physicians conducting certain radioscopically-guided procedures, e.g. on vessels, often receive a higher radiation burden. The extensive use of such diagnostic and treatment methods (e.g. vascular wall remodeling, embolization, stent /device implantation) by poorly trained physicians of various specialties (e.g. vascular surgeons, radiologists, gastroenterologists, cardiologists, neurosurgeons, orthopedists, urologists) frequently results in the unjustified appearance of radiation-induced lesions to both the patients and the staff involved in the procedures. Therefore, the interventionist is required to optimize his/her work by adapting it to the needs of the patient, the staff and the society in general.

In the context of the pre symposium course the following topics will be entertained in brief:

1. Sources of ionizing radiation, its interaction with matter, dosimetric quantities (e.g. absorbed dose, organ dose DAP, effective dose) and basic principles of radiation protection,
2. Radiobiological effects (e.g. radiation-induced cancer and cataract, lesions of the skin, the cardiovascular system and the central nervous system),
3. Instrumentation of radioscopically-guided procedures and equipment selection criteria,
4. Radiation burden of patients (e.g. typical DAP values and active dose values from diagnostic and radioscopically-guided procedures)
5. Good practices for reducing the patient and staff dosing when conducting radioscopically guided procedures and follow-up,
6. Radioprotection means for patients, staff and the public (e.g. individual, mobile and structural shields)
7. Legal requirements (e.g. diagnostic reference levels for medical acts, medical surveillance of staff, external staff, training certification, procedure licensing),
8. Dosimetry of staff, quality assurance and safe operation monitoring.

**Limited number of participants**

Please register on line at

<http://www.conferre.gr/congress/live2016/reg.aspx>

Organizing - Administrative Bureau /Secretariat:



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