



IAEA Free Webinar

## Managing X-ray exposure to pregnant patients

Date: **14 July 2016, 2 pm CET** ([check time in your country](#))

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Lack of knowledge about the radiation safety of diagnostic X-ray examinations for pregnant patients often results in unnecessary avoidance of useful examinations. In most cases, the risk of not having these examinations is much greater than the risk associated with the radiation exposure. Moreover, fluoroscopically or CT-guided interventional procedures should not be withheld when the use of radiation for diagnosis, intervention, or therapy is necessary for the clinical management of the pregnant patient. Whenever a diagnostic or interventional X-ray examination of a pregnant patient is considered to be necessary, embryo/fetus dose estimation is an essential step in assessing the radiogenic risks to the unborn child. Accurate estimation of embryo/fetus radiation dose is also needed after accidental exposure of a pregnant patient from an X-ray procedure. The main aim of this webinar is to provide information for management of a) pregnant patients needing radiological procedures and b) pregnant patients exposed accidentally to X-rays.

### Learning objectives

1. To learn how to manage pregnant patients in case of intentional and accidental exposure to X-rays
2. To be informed about the exposure of the embryo/foetus to radiation during diagnostic and interventional X-ray procedures
3. To learn about new developments in embryo/foetus dose estimation

## **Presenter**



John Damilakis is full professor and chairman at the Faculty of Medicine of the University of Crete and director of the Medical Physics department of the University Hospital of Heraklion, Crete, Greece. He is President of the European Federation of Organizations for Medical Physics (EFOMP) and chairman of the International Organization for Medical Physics (IOMP) Education and Training committee. Prof. Damilakis is coordinator or an active research member of several European projects. He has more than 200 publications concerning research topics of embryo/fetal dosimetry, CT dosimetry and medical radiation protection. He has been awarded several Prizes in recognition of his work in the field of Medical Physics.