

**Information and Preliminary results of the IAEA Cataract Study
Retrospective Evaluation of Lens Injuries and Dose (RELID)**

SOLACI Congress

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At the VIII SOLACI Congress a study was undertaken of radiation induced lens injuries in staff involved in interventional cardiological procedures, under the auspices of the International Atomic Energy Agency (IAEA).

The eye testing was performed by two ophthalmologists (Dr. Gustavo Hernández from Uruguay and Dr. Mariana Cabrera from Colombia). The technical aspects were coordinated by Dr. Ariel Durán, cardiologist from Uruguay and the President of the SOLACI Congress and the assessment of the data collection for radiation dose estimation by Prof. Eliseo Vañó, medical physicist from Spain.

The preliminary results (pending a complete evaluation of the data submitted by all the participants) were the following:

Total number of participants in the study: 91

Number of paramedical personnel working in catheterization laboratories: 24, of whom 38% had light opacities consistent with exposure to ionizing radiation.

Interventional cardiologists: 16, of whom 31% had light or moderate opacities consistent with exposure to ionizing radiation.

Control group (not exposed to ionizing radiation): 51, of whom 12% had opacities similar to those in the other groups.

An assessment of radiation dose to eye lens based on parameters such as number of years of occupational exposure, work load and pattern of work will make it possible to have a correlation of opacities with radiation dose, appropriate interpretation of results and a comparison with the results of other studies made under IAEA cataract study project.