Radiation Protection Past, Present, & Future:

A Conversation with the Former Scientific Secretary of the ICRP.

Webinar Q&A

This is the question we did not get the opportunity to answer during the webinar. Please note, the answer below is based on our readings and experience and is not legal or medical advice.

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| Q: | Can radiation exposure negatively impact eyesight without the formation of cataracts? |
| A: | Nobuyuki Hamada, is a member of 3 different ICRP task groups. His 2023 paper, *Noncancer Effects of Ionizing Radiation Exposure on the Eye, the Circulatory System and beyond: Developments Made Since the 2011 ICRP Statement on Tissue Reactions*, includes a table summary of major ophthalmological studies. It shows that the following eye conditions have shown an increase with measurable doses of ionizing radiation in at least one study: cataracts in aggregate, posterior subcapsular cataracts, cortical cataracts, nuclear cataracts, normal-tension glaucoma, and diabetic retinopathy. Glaucoma in aggregate showed a decrease in one study. |