Research Needs – The ICRP View

NEA Web Event
CRPPH Expert Group on the Dose Limit for the Lens of the Eye (EGDLE)
7 March, 2022

UK Registered Charity 1166304
System Review: The Next Decade

- Last general recommendations published in 2007
- Review and refinement needed
- Recognise gaps
- Consider needed updates
- Identify **building blocks**: essential work required for the next general recommendations
Areas of Research to Support the System of RP

• Introduction
• Research to support radiation risk assessment
• Research to support dosimetry
• Research to support the application/implementation of the System of Radiological Protection
• Conclusions

No mention of the lens of the eye, but …
ICRP TASK Group 115

Task Group 115
Risk and Dose Assessment for Radiological Protection of Astronauts
A Task Group under Committee 1

Terms of Reference
• To develop a comprehensive framework for risk and dose assessment for radiological protection of astronauts, including
  • a review of effects and risks from space radiation
  • a broadly-applicable risk and dose assessment methodology
  • an assessment of risk as a radiological protection quantity.

Following a request of the International Systems Maturation Team (ISMT-Radiation)

This will include review of
• Cardiovascular disease
• Cancer
• Disease of the central nervous system
• Occurrence and latency of lens opacification
Literature review on effects to the lens of the eye

TG115 Literature survey since publication of ICRP Publication 118 (2012)

Studies on astronauts


Recent reviews of epidemiological studies

- EPRI 2014: In the text, we mentioned the EPRI meta-analysis.

Recent studies on single epidemiological cohorts

THANK YOU!

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