



# Hazard, Danger, Risk, and Fear Webinar Q&A

These are questions we did not get the opportunity to answer during the webinar. Please note, the answers below are based on our readings and experience and are not legal or medical advice.

- Q: Is there any scientifically proven study on the stochastic effect of ionizing radiation in diagnostic medical exposure?...I think the word "scholastic" is "over-exaggeration"....what other term can be use to replace the word "scholastic".
- A: The term you are looking for is most likely stochastic, which means risk based. Effects such as cancer are not guaranteed to happen despite exposure. The definition given by the [ICRP](#) is, "Effect resulting from damage in a single cell, such as cancer and heritable effects. The frequency of the event, but not its severity, increases with an increase in the dose. For protection purposes, it is assumed that there is no threshold dose."

Our February 25, 2021 webinar [Health Effects of Exposure to Radiation](#) explains in more detail.