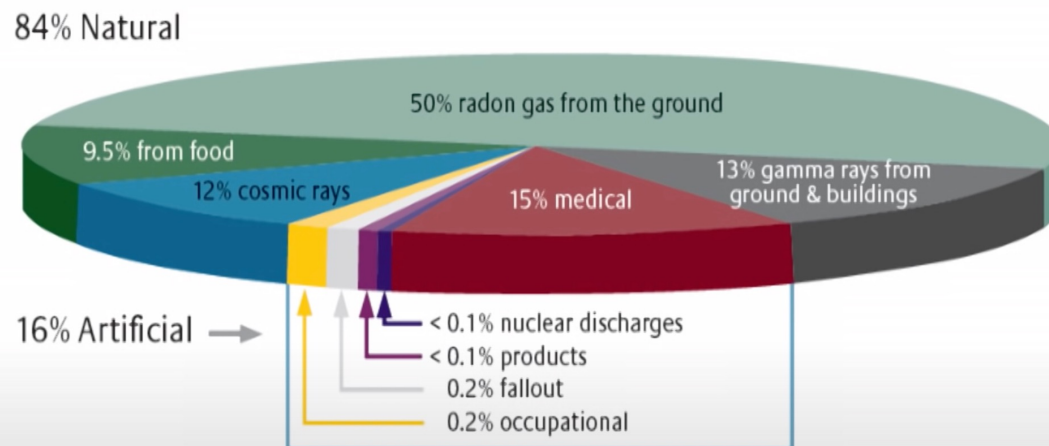




# Radiation and Risk

# What contributes to our radiation exposure?



Fallout/nuclear discharges: A-bombs, nuclear accidents e.g. Chernobyl and Fukushima account for 0.3%

# UN Report on Health Effects of Chernobyl

## Chernobyl - Health effects



- 28 from ARS
- 15 deaths from thyroid cancer in 25 years
- 1% death rate overall predicted for thyroid cancer. 16,000 excess thyroid cancers in total predicted - therefore 160 deaths
- No (scientific) evidence of increased thyroid cancer outside 3 republics
- No effect on fertility, malformations or infant mortality
- No conclusion on adverse pregnancy outcomes or still births
- Heritable effects not seen and very unlikely at these doses
- No proven increase in any other cancer (including liquidator cohorts)

Source: [www.unscear.org/docs/reports/2008/11-80076\\_Report\\_2008\\_Annex\\_D.pdf](http://www.unscear.org/docs/reports/2008/11-80076_Report_2008_Annex_D.pdf)

Screenshot



# UN Report on Health Effects of Fukushima

## Fukushima Health effects

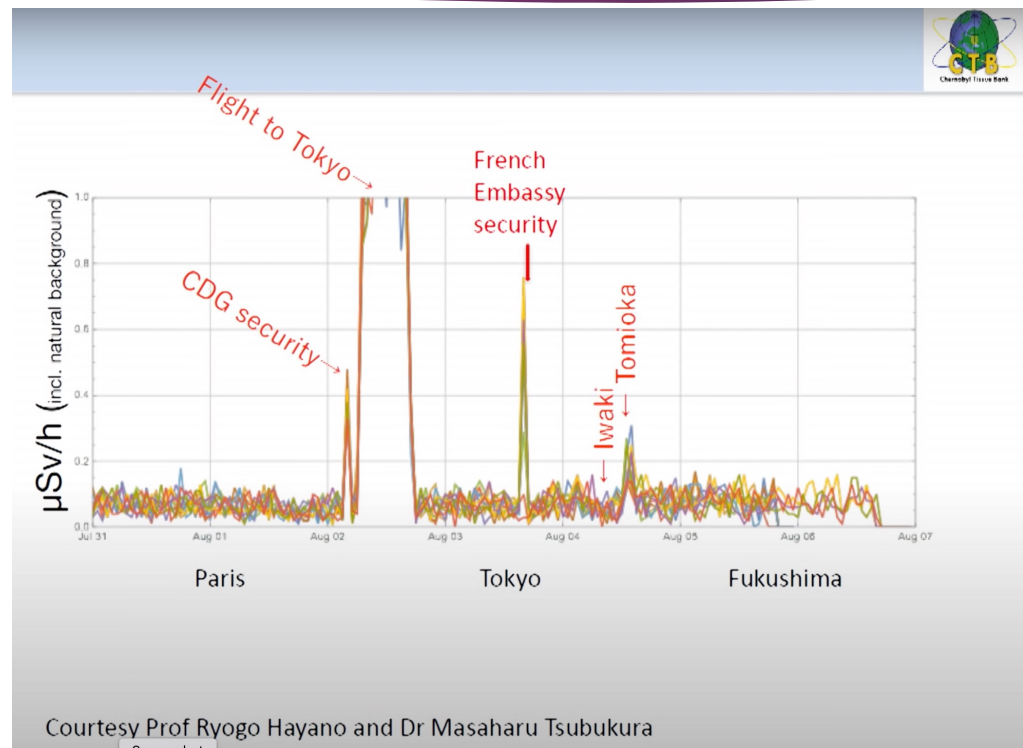


- No radiation related deaths compared with >1500 who died as a result of the evacuation or stress related to it, and approx 20,000 in tsunami
- Unlikely to be any increase in thyroid cancer at the doses received
- Psychological harm due to evacuation and radiophobia
- Huge economic effect on local area and Japan as a whole

Source: <http://www-pub.iaea.org/MTCD/Publications/PDF/Pub1710-ReportByTheDG-Web.pdf>

Screenshot

# Radiation record of a trip to Fukushima



# Risk of death based on energy source per TWhr

