

### ICRP Failure: Summary

Stage	Problem
Assume linear response	1. Assumes that at 1mGy, cell receives one hit per year. Not true for internal irradiation. 2. Empirical evidence shows non linear response at low dose.
Use external high-dose acute study to assess low-dose chronic internal	1. Theoretically invalid since internal exposure qualitatively different. 2. Empirical evidence shows higher cancer yield at lower dose. 3. Populations have different sensitivity. 4. Wartime Japanese survivors more healthy group. (Alice Stewart).
Check against internal studies.	Not adequate
Ignores non-cancer effects	e.g. non specific ageing, infant and perinatal mortality, sterility.

### Conclusion

ICRP model may be approximately accurate for external irradiation but fails for internal irradiation, and as a consequence, through its misapplication, more than 50 million people will die worldwide as a result of nuclear pollution.