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Nota di contenuto

A Review of the Draft Report of the NCI-CDC Working Group to Revise the 1985 Radioepidemiological Tables; Copyright; PREFACE; ACKNOWLEDGMENTS; Contents; EXECUTIVE SUMMARY; 1. INTRODUCTION; 2. SUMMARY OF THE SUBCOMMITTEE'S REPORT; 3. CRITIQUE; UTILITY OF THE DATA SOURCES; DATA SOURCES FOR ESTIMATES OF UNCERTAINTIES; ASSUMPTIONS CONCERNING RADIOLOGIC EFFECTS; MODELING AND CHOICE OF PARAMETERS; 4. TREATMENT OF ACUTE AND PROTRACTED (CHRONIC) EXPOSURES; 5. ASSESSMENT OF TIME-SINCE-EXPOSURE AS A MODIFIER OF RISK; 6. APPLICABILITY OF ASSIGNED SHARE CALCULATIONS TO MINORITY GROUPS 7. ESTIMATION OF ASSIGNED SHARE FOR NONMELANOMA SKIN CANCER 8. TREATMENT OF UNCERTAINTY; MONTE CARLO SIMULATION; RESIDUAL UNCERTAINTIES AND USE OF A SCALE FACTOR; 9. HOW SHOULD THE RADIOEPIDEMIOLOGICAL TABLES BE MADE AVAILABLE TO THE PUBLIC?; A) EVALUATION OF THE INTERACTIVE RADIO-EPIDEMIOLOGICAL PROGRAM:: Accessibility:: Transparency:: Flexibility:: B) OTHER ETHICAL AND COMMUNICATION ISSUES:: 10. FUTURE REVISIONS AND BROADER ISSUES; FUTURE REVISIONS:: BROADER ISSUES:: Usefulness of Probability of Causation:: Role of Uncertainty in Compensation:: 11. CONCLUSIONS AND RECOMMENDATIONS UTILITY OF DATA SOURCES Conclusion; Recommendations; ASSUMPTIONS CONCERNING RADIOLOGIC EFFECTS; Conclusion; Recommendations; EPIDEMIOLOGIC AND BIOSTATISTICAL MODELS; Conclusions; Recommendations; HANDLING OF UNCERTAINTY; Conclusions; Recommendations; Suggestions; MAKING THE RADIOEPIDEMIOLOGICAL TABLES AVAILABLE TO THE PUBLIC; Conclusions; Recommendations; Suggestions; 12. SUGGESTIONS FOR FUTURE COMPENSATION POLICY; APPENDIX A Specific Comments on the Working Group's Draft Report ; APPENDIX B Specific Comments on the Interactive Radio-Epidemiological Program ; Installation ANALYTICA Constraints IREP Choices in Implementation; Input Data; APPENDIX C Supplement to Text ; MLN - SOFTWARE FOR N-LEVEL ANALYSIS.; REFERENCES; Information on Committee Members

Sommario/riassunto

The National Research Council was asked by the Centers for Disease Control and Prevention (CDC) to review the draft report of the National Cancer Institute (NCI)-CDC's working group charged with revising the 1985 radioepidemiological tables. To this end, a subcommittee was formed consisting of members of the Council's Committee on an Assessment of the Centers for Disease Control and Prevention Radiation Programs and other experts. The original tables were mandated under Public Law 97-414 (the "Orphan Drug Act") and were intended to provide a means of estimating the probability that a person who developed any of a series of radiation-related cancers, developed the cancer as a result of a specific radiation dose received before the onset of the cancer. The mandate included a provision for periodic updating of the tables. The motivation for the current revision reflects the availability of new data, especially on cancer incidence, and new methods of analysis, and the need for a more thorough treatment of uncertainty in the estimates than was attempted in the original tables.