INTERNATIONAL COMMISSION ON RADIOLOGICAL PROTECTION

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Resolution of Public Consultation Comments for ICRP *Publication 158*: Dose coefficients for intakes of radionuclides by members of the public: Part 1

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Background

ICRP is grateful for the time and effort taken to review and comment on draft reports during their public consultation period. Active public consultations are a valuable part of developing high-quality publications. Comments are welcome from individuals and organisations, and all are considered in revising the draft prior to publication.

To ensure transparency, comments are submitted through the ICRP website and visible by visiting www.icrp.org.

Public Consultation

The draft report was available for public consultation from 23 February 2023 to 26 May 2023. Altogether 9 sets of comments were received from individuals and organisations covering a wide range of aspects dealt with in the report. Consequently, the authors undertook changes to improve the readability and understanding of the document.

The full list of individuals and organisations that provided comments during the public consultation process is shown in Appendix A.

The main comments received are described below and can be grouped into 4 main categories.

Resolution of comments

Comparison of new dose coefficients with those previously produced

Several comments suggested that the new dose coefficients be compared to the previous ones, published in the ICRP Publications 56 series.

This has not actually been done in this work, which is intended to produce new reference coefficients, which therefore render the old ones obsolete. These new coefficients result from the use of more realistic biokinetic models, new anthropomorphic phantoms and the use of new weighting factors from the last ICRP recommendations. The changes made in the models are extensively described in the report and should guide readers as to the reasons for the observed changes. That being said, the authors of the document have of course heard

the request and will produce, at the end of the EIR series, a scientific paper explaining the main differences observed between the old and the new coefficients, as well as the reasons for these differences.

Details on the calculation of the dose coefficients

Some comments asked to be more explicit about the method used to calculate the dose coefficients, or even to provide a guide and examples that would allow everyone to calculate the coefficients by themselves. Requests in this direction were sometimes justified by individual tests of calculation which did not give the same results.
As explained just before, this document aims to produce reference coefficients, to be used for the prospective and retrospective calculation of effective doses. It does not in any way constitute a guide for the calculation of effective doses. Many publications of this type exist in the literature, which the authors of the report recommend reading for further information. Finally, it should be remembered that the coefficients produced are the subject of parallel calculations by several institutes and cross-checks, which limit the risk of error, which can occur when a person calculates the coefficients alone. They are therefore recommended for use as such.

Clarification requests

Some requests have focused on clarifications in the document, either on technical parts related to the methodology, or on more general concepts explained in previous ICRP works. When necessary, the authors of the report have made clarifications in the document or have recalled the references of the old ICRP works describing the concepts used.

Editorial changes

Some comments focused on requests for editorial changes, often due to typos in the text. These changes have all been taken into account.

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Appendix A

List of individuals and organisations that submitted comments during the public consultation period

Name		Organisation
Shaheen Dewji	as an individual	Georgia Institute of Technology
LECLERC Elisabeth/MENETRIER Florence	as an individual	individual reply
Tsuyoshi Masuda	as an individual	Institute for Environmental Sciences
Christiana Dowds	on behalf of	Environment Agency, England
KEITH ECKERMAN	as an individual	KEITH ECKERMAN
Cameron Lawrence	on behalf of	ARPANSA
Emma Petty	on behalf of	UK Committee on Medical Aspects of Radiation in the Environment (COMARE) + UK Society for Radiologi
Thomas Beck	as an individual	private
Laura Butchins /Gareth Thomas	on behalf of	Office For Nuclear Regulation, United Kingdom