

CODEX ALIMENTARIUS COMMISSION



Food and Agriculture
Organization of the
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World Health
Organization

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Agenda Items 11

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JOINT FAO/WHO FOOD STANDARDS PROGRAMME

CODEX COMMITTEE ON PESTICIDE RESIDUES

52nd Session

(Virtual)

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Recommendations on the Review of the international estimate of short-term intake equations (IESTI)

(Prepared by the Electronic Working Group chaired by the European Union and co-chaired by Brazil and Uganda)

In the pre-meeting held on 23 July 2021, 13:00 to 15:00 CET, the participants discussed the conclusions and recommendations derived by the EWG on the review of the international estimate of short-term intake equations (IESTI).

The following conclusions and recommendations were derived:

ToR (i), part 1: Advantages/benefits and challenges arising from the current IESTI equations

The EWG considered that ToR (i), on the analysis of benefits and challenges of the current IESTI equations is sufficiently addressed.

The participants of the pre-meeting **recommended** to make the summary of the discussion paper on the advantages/benefits and challenges arising from the current IESTI equations (Section 1 of CX/PR 21/52/15) publicly available on the Codex website as information document. In addition, this section of the discussion paper should be forwarded to JMPR to further discuss the challenges identified in Table 2 of the discussion document and consider a possible way forward to address the challenges on issues that fall under the remit of JMPR.

ToR (i), part 2: Review on the parameters of the IESTI equations

The participants of the pre-meeting **agreed** that Section 3 of the discussion document CX/PR 21/52/15 in which a comprehensive review of the parameters of the IESTI equations are presented addresses sufficiently the second part of the ToR (i).

The participants **recommended** making this review available to JMPR for further follow-up discussions (e.g. to discuss the need for development of further guidance on how to derive certain input values such as LP, U, Ue, VF). In addition, Section 3 of the discussion document should be made available on the Codex website as information document.

ToR (i), part 3: Benchmark of the outcomes of the IESTI equations to probabilistic distribution of actual exposures

While some participants of the pre-meeting considered ToR (i) (benchmarking of the outcomes of the IESTI equations to a probabilistic distribution of actual exposures and considering recent publications on acute dietary exposure assessment in the peer-reviewed literature) was sufficiently addressed, other delegates were of the opinion that due to late publication of the final paper of Crépet et al (2021, <https://doi.org/10.1016/j.foodcont.2020.107563>) the current discussion paper does not adequately reflect the final FAO/WHO benchmarking paper. These delegates expressed concerns that the study design of the acute probabilistic exposure assessment was not appropriate to derive definitive conclusions whether the IESTI methodology is sufficiently protective.

The participants of the pre-meeting **recommended** that Section 2 of the discussion document together with the final version of the acute probabilistic exposure assessment published in the paper of Crépet et al (2021) and the comments submitted in response to the CL 2021/42-PR (CX/PR 21/52/11-Add. 1) should be forwarded to JMPR for further consideration to support the discussion on the need for a possible revision of the IESTI equations. JMPR should be

requested to report their considerations on the benchmarking of the IESTI equations to the probabilistic distribution of actual exposures presented in Crépet et al the back to CCPR.

The participants also **recommended** to suspend the work of the electronic Working Group (EWG) awaiting the feedback from JMPR. Based on the feedback from JMPR a decision should be taken in the next CCPR meeting (CCPR53) if the EWG needs to continue the work.

ToR (ii): Information on bulking and blending

The participants of the pre-meeting considered that the ToR (ii) was sufficiently addressed in Section 4 and Appendix I of the discussion document (CX/PR 21/15). Further work to collect further data on bulking and blending practices would be very time consuming. Before undertaking additional efforts, the information should be assessed by JMPR to decide on the usefulness of the data.

The participants of the pre-meeting **recommended** that Section 4 and Appendix I of the discussion paper is submitted to JMPR for further evaluation/consideration. The information should support discussions in JMPR to decide whether the list of commodities for which the exposure calculation is performed according to IESTI case 3 needs to be revised.