Thematic Workshop

Nutrition and Food Innovation Unit

"Derivation of conversion factors for new sources and forms of nutrients"

09 March 2023
14:00-18:00 CET
AGENDA

Background

The European Commission requested that EFSA update its Guidance on safety evaluation of sources of nutrients and bioavailability of nutrient from the sources (EFSA ANS Panel, 2021) regarding the scientific principles and data requirements for applicants in order to establish data requirements for the scientific assessment of all new forms of nutrients and to derive a conversion factor (CF) for proposed new sources or forms of nutrients. EFSA held an open consultation through an Expert Survey on keys points to consider for derivation of conversion factors. The outcome was used to prepare a Discussion paper to shape and optimise the workshop discussion. The outcome will inform EFSA's update of its guidance.

Objective of the meeting

To share and exchange views regarding the scientific principles and data requirements for deriving conversion factors for proposed new sources or forms of nutrients.

Location: Webconference (Teams)

Chair: Dominique Turck (NDA Panel)

Rapporteurs: Albert Flynn

Notes to participants

It is recommended to read the "Discussion Paper on the derivation of conversion factors for new sources and forms of nutrients" prior to the Workshop to ensure a fruitful discussion.

Agenda

9 March 14:00-18:00 CET

Part 1		
14.00	**Welcome and opening remarks**	Ana Afonso (Head of EFSA NIF Unit)
14.05	**Introduction**	Dominique Turck (Chair of the NDA Panel)
14:10	**Setting the scene: Outcome of the Expert Survey**	Albert Flynn (Rapporteur)
14.20	**Nutrient sources** - reference source (Q1) - nutrient metabolites (Q2)	Discussion for All
15.00	**Human studies to derive CF** - study designs (Q7) - acute/short term studies (Q8) - chronic studies (Q9)	Discussion for All

16:00	***BREAK***	
Part 2		
16:20	**Chemical/*in vitro* data to derive CF** - chemical data (Q4) - *in vitro* data (Q5)	Discussion for All
17:00	**Implications of CF for DRVs & UL** - DRVs for adequacy (Q10) - UL (Q11)	Discussion for All
17:30	**Wrap up and conclusions**	Albert Flynn (Rapporteur) & Dominique Turck (Chair of the NDA Panel)
18:00	***End***	

The questions below are provided to assist the workshop discussions:

Question 1: What should be the criteria for selection of the reference nutrient source for comparison with the novel source?
Question 2: What are the requirements for nutrient metabolites (e.g. submitted as Novel Foods) to be considered also as nutrient sources?
Question 4: Under what conditions would chemical data be considered sufficient to estimate comparative bioavailability and a conversion factor?
Question 5: Under what conditions would data from *in vitro* studies be considered sufficient to estimate comparative bioavailability and a conversion factor?
Question 7: What types of human studies would be needed to estimate comparative bioavailability and a conversion factor?
Question 8: Under what conditions would data from acute/short-term studies in humans be considered sufficient to estimate comparative bioavailability and a conversion factor?
Question 9: Under what conditions would data from chronic studies in humans be considered necessary to estimate relative bioavailability and a conversion factor?
Question 10: What are the implications of the conversion factor on nutrient adequacy?
Question 11: What are the implications of the conversion factor on the Tolerable Upper Intake Level of the nutrient?

Participants

Members of the EFSA NDA Panel and Working Groups (WG)

Peter Aggett, University of Central Lancashire (emeritus professor), UK (WG Upper Levels)

Torsten Bohn, Luxembourg Institute of Health, Luxembourg (NDA Panel/WG Upper Levels)

Marta Crous Bou, Institut Català d'Oncologia, Spain (WG Upper Levels)

Francesco Cubadda, National Health Institute, Italy (WG Upper Levels/WG Novel Foods)

Susan Fairweather Tait, University of East Anglia, UK (WG Upper Levels)

Inge Mangelsdorf, Independent toxicologist, Germany (WG Novel Foods)

Harry McArdle, University of Aberdeen (emeritus professor), Scotland (NDA Panel/WG Upper Levels/WG Novel Foods)

Androniki Naska, National and Kapodistrian University of Athens, Greece (NDA Panel/WG Upper Levels)

Monika Neuhäuser-Berthold, Justus-Liebig-University, Germany (WG Novel Foods)

Kristina Pentieva, University of Ulster, UK

Alfonso Siani, Institute of Food Sciences, Italy

Dominique Turck, University of Lille, France (NDA Panel)

Hearing experts, who participated to the Expert Survey

László Abrankó, Hungarian University of Agriculture and Life Sciences (MATE), Hungary

Dimitrios Chrysafidis, Individual, Greece

Ioannis Mavromichalis, Ariston Nutrition, Private sector/industry, Greece

Hope Weiler, Individual, Health Canada, Canada

Aelita Zabulionė, Individual, Lithuania

Hearing experts, from industry and other organisations

Mareike Beck, DSM, Switzerland

Rima Obeid, Saarland University Hospital, Germany

Representatives from public organisations

Agniezska Balcerzak, FAO, Italy

Megan Harrison, FAO, Italy

Lisa Houghton, University of Otago, New Zealand

Christel Lamberg-Allardt, University of Helsinki, Finland

Fabiana Moura, U.S. Food and Drug Administration, USA

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References

"Discussion Paper on the derivation of conversion factors for new sources and forms of nutrients"