

18 October 2021

EFSA International Workshop:

Scientific Criteria for Grouping Chemicals into Assessment Groups and Future Challenges in Risk Assessment of Combined Exposures to Multiple Chemicals

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Trusted science for safe food



To bring together diverse scientific communities to discuss the challenges facing risk assessment in terms of the combined exposure to multiple chemicals (chemical mixtures)



Identification of drivers for grouping chemicals for assessment or prioritisation



Consider the future challenges for risk assessment of combined exposures to multiple chemicals

- Two EFSA Guidance documents

- 2019

- Harmonisation of methodologies
 - Problem formulation
 - Exposure and Hazard Assessment
 - Risk Characterisation

- 2021

- Scientific criteria of grouping
 - Hazard based criteria
 - Prioritisation

GUIDANCE

ADOPTED: 20 February 2019

doi: 10.2903/j.efsa.2019.5634

Guidance on harmonised methodologies for human health, animal health and ecological risk assessment of combined exposure to multiple chemicals

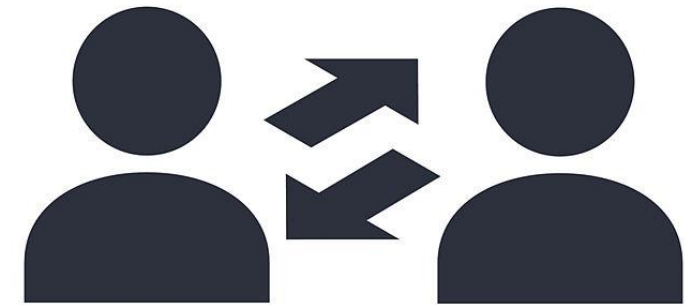
EFSA Scientific Committee,
Simon John More, Vasileios Bampidis, Diane Benford, Susanne Hougaard Bennekou, Claude Bragard, Thorhallur Ingi Halldorsson, Antonio F Hernández-Jerez, Konstantinos Koutsoumanis, Hanspeter Naegeli, Josef R Schlatter, Vittorio Silano, Søren Saxmose Nielsen, Dieter Schrenk, Dominique Turck, Maged Younes, Emilio Benfenati, Laurence Castle, Nina Cedergreen, Anthony Hardy, Ryszard Laskowski, Jean Charles Leblanc,



Draft Guidance Document on Scientific criteria for grouping chemicals into assessment groups for human risk assessment of combined exposure to multiple chemicals

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- 3 Days (18-20th October 2021)
 - Information exchange
 - Plenary presentations
 - Engagement and interaction
 - Break-out sessions
 - Ideas generation
 - Break-out sessions
 - Discussion
 - Plenary discussion
 - Question and Answer sessions



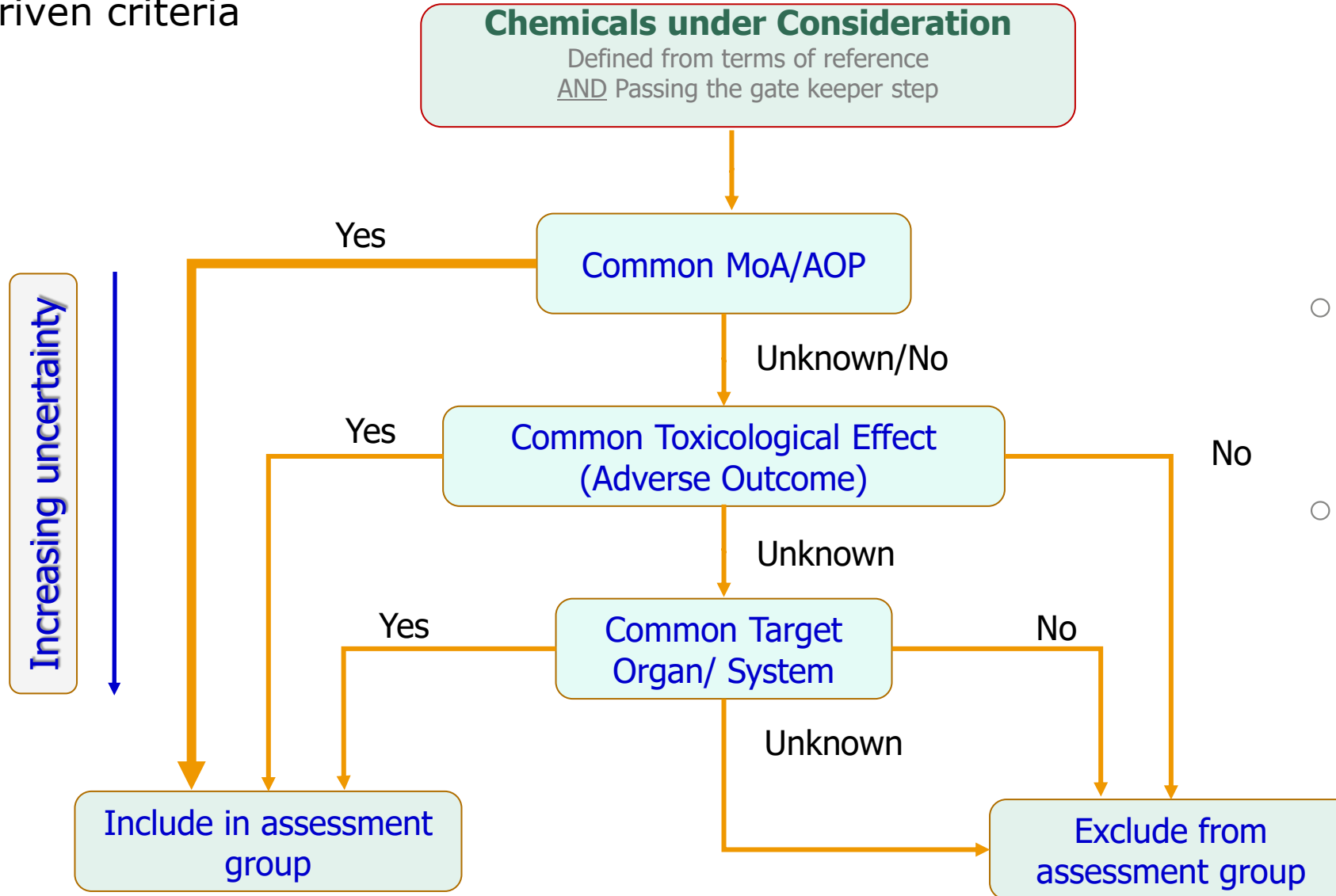
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- Day 1
 - International activity on Risk Assessment of combined exposures to multiple chemicals
 - Objective
 - Harmonisation of methodologies
 - 5 Presentations
 - Break-out session 1
 - Hazard driven criteria for grouping chemicals in to assessment groups
 - Systemic toxicity to mechanistic understanding

Hazard-driven criteria for grouping chemicals into assessment groups

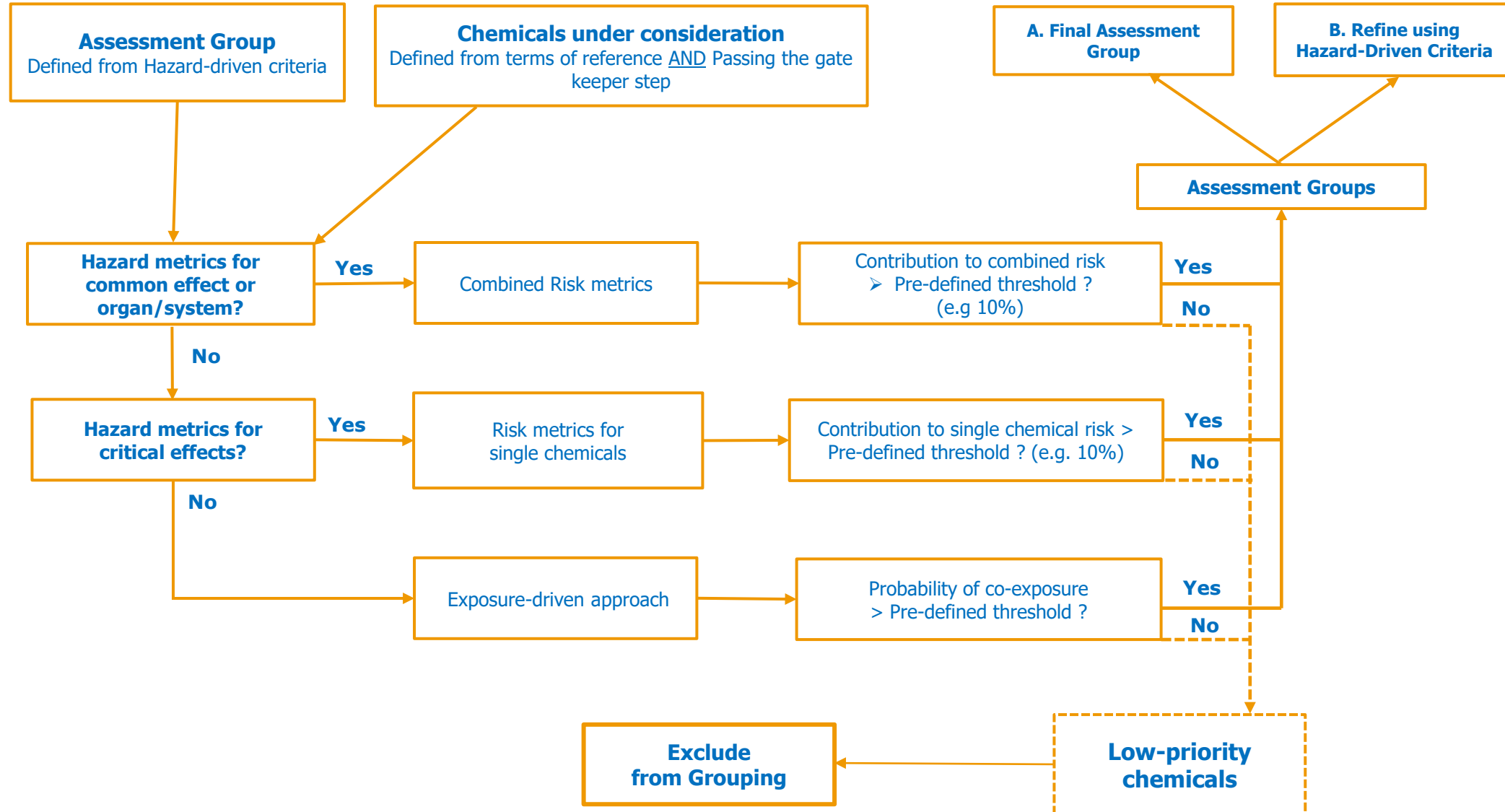
Top-down hierarchical process for grouping chemicals into Assessment Groups using hazard-driven criteria



- Gold standard Common MoA/AOP for grouping into assessment group
- Then move to common toxicity or target organ

- Day 2
 - Reporting from the break-out session 1
 - Plenary discussion
 - Break-out session 2
 - Exposure driven and risk based criteria
 - Priority setting and tools

Prioritisation methods: Risk-based and exposure driven



- Day 3
 - Reporting from the break-out session 2
 - Plenary discussion
 - Break-out session 3
 - Future challenges in risk assessment of combined exposures to multiple chemicals
 - Wide ranging discussions
 - New ideas
 - Activities to support solving the challenges



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