

CC/2019/03

COMMITTEE ON CARCINOGENICITY OF CHEMICALS IN FOOD, CONSUMER PRODUCTS AND THE ENVIRONMENT (COC)

Challenges for risk assessment of the effects of combined exposure to chemicals on carcinogenicity

1. The COC previously considered a scoping paper outlining the potential for a novel carcinogen-specific risk assessment paradigm for combined exposures to possible carcinogenic chemicals in November 2018 (CC/2018/09).
2. The potential approach discussed was based on a multistage model of cancer as an adverse outcome pathway. The utility of such an approach was explored using two examples of known synergistic chemicals (alcohol and tobacco smoking; asbestos and tobacco smoking) that have previously been considered by COC.
3. It was agreed in November, that a discussion article should be prepared for submission to a peer-reviewed journal reflecting the COC's thinking on new approaches to the risk assessment of the effects of combined exposures on carcinogenicity.
4. The paper presented in Annex A is a first draft of such an article. As it is intended for publication the document is not being made publicly available.

Questions for the Committee

Members are asked to consider this draft and in particular:

- i. Whether they have any comments on the structure and contents of the draft document

**NCET at WRc/IEH-C under contract supporting the PHE COC Secretariat
March 2019**

CC/2019/03 Annex A

COMMITTEE ON CARCINOGENICITY OF CHEMICALS IN FOOD, CONSUMER PRODUCTS AND THE ENVIRONMENT (COC)

Challenges for risk assessment of the effects of combined exposure to chemicals on carcinogenicity

Draft paper

This annex is attached. It is not being made publicly available in anticipation of publication in a peer-reviewed journal in due course.

**NCET at WRc/IEH-C under contract supporting the PHE COC Secretariat
March 2019**

DRAFT