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**DRAFT**

**Addendum to MUT/04/19**

**COMMITTEE ON MUTAGENICITY OF CHEMICALS IN FOOD, CONSUMER PRODUCTS AND THE ENVIRONMENT.**

**Biomonitoring studies from EU of genotoxicity in pesticide applicators.**

**Introduction**

1. The Medical and Toxicology panel of the Advisory Committee on Pesticides has asked the Com for advice on the genotoxicity in pesticide applicators. The referral statement is given below.

*"To review investigations of mutagenicity and DNA adducts in pesticide applicators and workers exposed to pesticides (e.g. handling cut flowers) and factory (manufacturing) staff engaged in pesticide manufacture/formulation and produce a statement for the Advisory Committee on Pesticides and its Medical and Toxicology Panel. The review should include all studies identified by the MTP and any other relevant studies published, particularly those originating from the UK.*

*The review should consult COC epidemiologists with regard to the rigour of studies evaluated. this should include design, selection of controls, bias, confounding and use of multiple statistical comparisons.*

*The review should be initiated at the October 2004 COM meeting."*

2. The DH Toxicology Unit in collaboration with the secretariat have drafted the appended review. The Annexes to MUT/04/19 are as follows;

**Annex 1:** Overview paper. This provides an assessment of all the data. Seven draft conclusions have been proposed which are given in para 86 page 32 of the review.

**Annex 2:** A summary of the relevant data from each of the cited studies is provided. The IPCS guidelines (Albertini RJ et al. Mutation Research, vol 463, 111-172, 2000) has been used to assist in evaluating the data and to provide a format for the summaries.

*[A copy of the full published paper for each of the references cited is also appended]*

**Annex 3:** A tabular summary of the cited papers according to occupation

**Annex 4:** A tabular summary of the cited papers focusing on the statistical approaches to evaluation of the data.

*[A copy of some initial comments from a COM member on the approach to the statistical evaluation are appended for information]*

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**Annex 5:** A tabular summary of cited papers providing information on pesticide active ingredients identified by study investigators in exposed individuals.

## **Suggested approach to review.**

3. It is suggested that the review will take a minimum of two meetings to complete. The preliminary objectives for the October 2004 meeting are shown below. The secretariat hope to provide further information on proposals to progress the review at the meeting.

- i) Identify adequately conducted and reported studies.
- ii) Subdivide the results from these studies into positive and negative endpoints.
- iii) Identify, if possible, any exposure patterns pertaining to positive results.
- iv) Comment on the evaluation in Annex 1 and the draft conclusions.

**Secretariat  
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