From: ICBUW Office <office@icbuw.org>
Date: Mon, 12 Mar 2012 06:44:25 -0400
To: Site License <lunn@niehs.nih.gov>
Subject: Late submission/public comment for DU RoC study

Dear Dr Lunn, I have just come across the announcement that depleted uranium will be considered for inclusion in the RoC. Our NGO undertakes research and advocacy on depleted uranium weapons and we warmly welcome the news as we believe that the available data on DU's potential carcinogenicity is considerable.

I apologise that we have missed the deadline for public comments but I just wanted to flag up a few articles that may be relevant to the study, you may well be familiar with the first two. The third was a submission on a recent risk assessment carried out on DU by the European Commission. The final link is a compendium of published papers on DU.

Yours sincerely,

Doug Weir
Coordinator

A Review of Depleted Uranium Biological Effects: In Vivo Studies

Presentation by Dr Alexandra Miller of the US Armed Forces Radiobiology Research Institute (AFRRI) compiling the in vivo research by AFRRI and others into the biological effects of depleted uranium exposure.

Conclusions from in Vivo studies:
Internalised chronic DU exposure in vivo:
1. causes uranium re-distribution to multiple organs. 2. is associated with mutagenicity. 3. Induces chromosomal damage. 4. Induces leukeamia development in mice. 5. Causes preconceptional paternal exposure to induce genomic damage in unexposed offspring. 6. Induces germ cell DNA damage.
Available: http://dodreports.com/ada539772

A Review of Depleted Uranium Biological Effects: In Vitro Studies

Presentation by Dr Alexandra Miller of the US Armed Forces Radiobiology Research Institute (AFRRI) compiling the in vitro research by AFRRI and others into the biological effects of depleted uranium exposure.

Conclusions from in Vitro studies:
1. DU induces neoplastic transformation, mutagenicity, and genotoxicity in vitro.
2. DU is involved in uranium-induced genomic instability.

3. Alpha particles similar in energy and distribution to those resulting from cellular uranium exposure to DU are
sufficient to transform cells.
4. Radiation bystander effects are involved in uranium-induced neoplastic transformation and genomic instability.
http://dodreports.com/pdf/ada539809.pdf

Submission to European Parliament's review of its 2010 depleted uranium risk assessment
Written evidence submitted by Dr Keith Baverstock on flaws in SCHER's DU risk assessment at SEDE hearing on DU munitions, 6th October 2011.
http://www.bandepleteduranium.org/en/docs/168.pdf

2009 Review of published papers on DU
During the past several years many scientific papers have been published on the issue of health effects of DU. They have provided us with a more profound and solid understanding of the issue grounded on basic scientific evidence from both animal and cellular studies that suggest deleterious effects on human health from inhaled DU particles through both radiological action and chemical toxicity, as well as possible synergistic effects from the radioactivity and chemical toxicity of DU combined.
http://www.bandepleteduranium.org/en/docs/58.pdf

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