



Comments related to the Draft Report of “High Level and Expert Group on European Low Dose Risk Research”

EURADOS-WG7 on “Internal Dosimetry” Coordinator: Maria Antonia Lopez (CIEMAT, Spain)

1.- Comments from H. Schuhmacher, EURADOS Chairman

- No need to comment the draft as a joint EURADOS action
- Internal Dosimetry, Microdosimetry and Retrospective Dosimetry are important tools in low-dose risk research. Internal Dosimetry area is covered by EURADOS through Working Group 7 (WG7).
- Section 3.4. of the Draft: There is a clear call for improvement of biokinetic models and dosimetric models for internal irradiation. This fully matches with the activities of EURADOS WG7.

2.- Comments from M.A. Lopez, Coordinator of EURADOS WG7 on “Internal Dosimetry”

2.1.- HLEG Report: General issues.

- HLEG Report shows an important initiative to be carried out based on the existence of considerable uncertainties and divergent views about the health effects at low doses.
- The establishment of a sustainable framework for low dose risk research in Europe represents a challenge and a great opportunity to provide funding and a long-term multidisciplinary work programme to European Institutions in the field.

2.2.- State of science and main research challenges: Internal Exposure risks

- Concerning the scientific strategy, to better quantify the risks from internal radiation exposure is one important issue to take into account.
- Relevance: Robustness of systems of protection for intake of radionuclides.
- Some of the problems addressed and the tasks proposed have been considered as key-matters by EURADOS WG7, especially the development and improvement of biokinetic and dosimetric models for chronic and acute exposures, including the estimation of uncertainties.
- EURADOS WG7 would be interested in participating in the actions to be developed in relation with this topic. WG7 is operating as an Internal Dosimetry Network (Annex I) at European level, whose main aims are the coordination of research on internal dosimetry, the support of ongoing developments of ICRP models and the dissemination of scientific knowledge.

2.3.- MELODI Platform

- MELODI is presented in the draft report as a “Multidisciplinary European Low Dose Initiative”, whose aims are in concordance with the principles of EURADOS organization: a trans-national structure interfacing with many stakeholders, in particular scientific community and regulatory bodies, ensuring coordination/integration of research, education and training.
- EURADOS WG7, supported by EURADOS organization, could be part of this new Platform.
- STUK's head of research Sisko Salomaa is a member of the HLEG, and she is now leading the creation of the MELODI platform.
- The “acting members” of the governing board of MELODI have asked STUK (Sisko Salomaa) to take the lead in the preparation of the NoE proposal.
- Sisko will participate at the EURADOS annual meeting AM2009 at PTB, and at the Winter School on "Low-Dose Radiation Effects". The EURADOS meeting would be a good place to discuss with Sisko about the platform and connections to the work of WG7.

ANNEX I.- EURADOS WG 7 “Internal Dosimetry”

1.- EURADOS e.V.

The European Radiation Dosimetry Group (www.eurados.org) is a network of more than 50 institutions and more than 200 scientists from the European Union, Switzerland, Eastern and Central Europe. The main aim of EURADOS is to promote research, development and European cooperation in the field of the dosimetry of ionizing radiation

EURADOS is registered in German Register of Societies as non-profit association. EURADOS activities encompass:

- the coordination of working groups to promote technical development and implementation in routine
- organization of scientific meetings and training activities
- organization of intercomparisons and benchmark studies

2.- EURADOS-WG7 on “Internal Dosimetry”

(1) OBJECTIVES

- Maintenance of the Internal Dosimetry Network beyond the PF6 project CONRAD
- To continue with the Coordination of Research on Internal Dose Assessment
- Support of ongoing developments of ICRP models
- Dissemination of scientific knowledge
- To maintain the link with EURADOS organization:
 - (a) To be part of a European network on Radiation Dosimetry
 - (b) Budget and Administrative matters

(2) TASKS

T7.1.- Internal Dose Assessment- Updating IDEAS Guidelines:

- (a) Re-evaluation of old cases from IDEAS Databases using NEW MODELS. Collaboration with task-group T5.2 “Biokinetic Models”
 - (b) Update of IDEAS Guidelines. Generation of an official-reference document.
 - (c) New Intercomparison on Dose Assessments
- Coordinators:** C.M. Castellani (ENEA, Italy) /J. Marsh (HPA, UK)

T7.2.- Research studies on biokinetic models

Coordinator: D. Nosske, BfS, Germany

T7.3.- Towards a DTPA therapy Model

Coordinator: B. Breustedt-FZK, Germany / E. Blanchardon-IRSN, France

T7.4.- New developments on Monte Carlo applications to in-vivo assessment of intakes

Coordinator: D. Franck, IRSN, France

T7.5.- Interpretation of monitoring data after accidental or deliberate releases of radionuclides

Coordinator: G. Etherington, HPA, UK

(3) DISSEMINATION OF KNOWLEDGE

✓ Links in the WEB:

- ◆ EURADOS Web site: www.eurados.org
- ◆ IDEAS/ENEA Web site: www.bologna.enea.it/attivita/ideas.html
- ◆ SCK-CEN Web site www.sckcen.be/ideas
- ◆ EURADOS/IAEA Training Course Web Site: www.fjfi.cvut.cz/kdaiz/amida/index.html

✓ Training Activities

- EURADOS/IAEA Training Course on Advanced Methods for Internal Dose Assessment. Univ. Prague (Czech Republic), 2-6 February 2009.
- EURADOS Winter School

(4) NETWORK ON INTERNAL DOSIMETRY

48 WG7 Members

19 Institutes, 14 Countries

- ✓ AEKI (Hungary)
- ✓ BfS (Germany)
- ✓ CEA (France)
- ✓ CIEMAT (Spain)
- ✓ EDF (France)
- ✓ ENEA (Italy)
- ✓ FZK Karlsruhe (Germany)
- ✓ Helmholtz Zentrum Muenchen (Germany)
- ✓ HML (Canada)
- ✓ HPA (UK)
- ✓ IAEA
- ✓ IDEA System (Germany)
- ✓ ITN (Portugal)
- ✓ NRPI (Czech Rep.)
- ✓ RPI-Kiev (Ukraine)
- ✓ SCK-CEN (Belgium)
- ✓ STUK (Finland)
- ✓ Univ. Milan (Italy)
- ✓ Univ. Prague (Czech Rep)

(5) BUDGET

➤ **EURADOS Funding**

- ✓ **Regular funding for WG: ~ 8000 Euros/year**
 - To support travel costs of WG members
 - WG7: 48 Members (all considered as Full Members)

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