

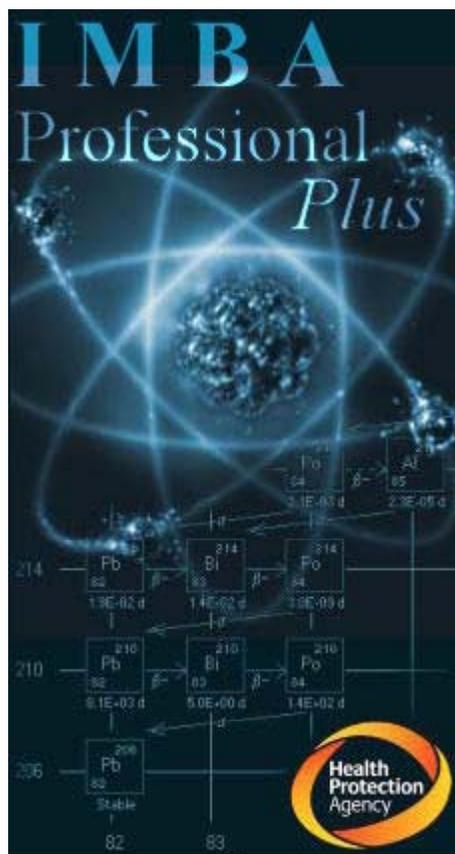


The MARIMBA-exercise

Method exercises of user ability for
IMBA
(Metodövningar av Användarförmåga för
IMBA)

Sahlgrenska akademien

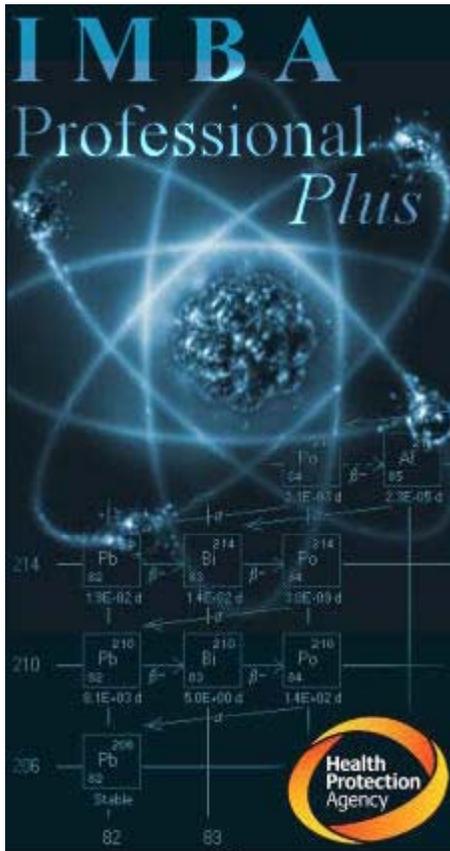
IMBA (Integrated Modules for Bioassay Analysis) 1



- a suite of software modules for internal dosimetry
- implements all of the biokinetic and dosimetric models currently recommended by the ICRP
- also enables the users to specify their own parameter values and apply sophisticated data handling techniques to their customised internal dose calculations

(from IMBA web-site www.imbaprofessional.com)

IMBA (Integrated Modules for Bioassay Analysis) 2



- IMBA Professional Plus consists of a Base Unit and various Add-Ons which increase the functionality of the software
- developed by the UK Health Protection Agency (HPA) in association with ACJ & Associates, Inc., USA

(from IMBA web-site www.imbaprofessional.com)

The MARIMBA exercise



- Developed by the departments of radiation physics at Göteborg and Linköping University, in cooperation with Studsvik Nuclear AB
- A methods project within the national radiological emergency preparedness (SSM)
- Invitation sent to the preparedness labs and nuclear facilities in Sweden
- Consists of four scenarios

Scenarios

1. Tritiated water (H-3) as steam – acute intake
 - Urine samples
2. Deposition after accident in a nuclear facility (Cs-137) – chronic intake
 - Whole body counting
3. Isotope production facility (Co-60) – acute intake
 - Urine samples & Whole body counting
4. Industrial work (Am-241) – multiple intake
 - Urine & faeces samples

Time-plan

- Results should be delivered 1 Nov. 2011
- There are still room for more labs

Thank you