



Strål  
säkerhets  
myndigheten

Swedish Radiation Safety Authority

# **Phantom-based intercomparison among Nordic whole body counting facilities and the Nordic phantom library website - PIANOLIB**

Lilian Norrlid  
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PIANOLIB workshop



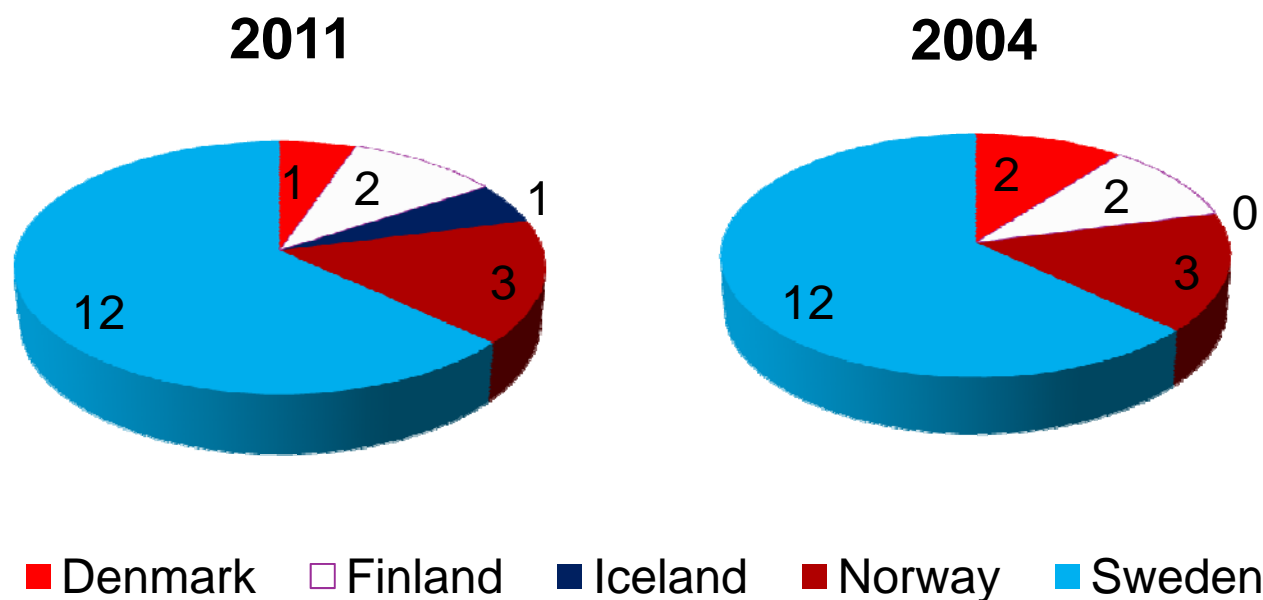
# PIANOLIB, an NKS activity 2010, 2011

- Nordic Nuclear Safety Research- NKS is a platform for Nordic cooperation and competence in nuclear safety including radiation protection and emergency preparedness. The work is financed and supported by Nordic authorities (owners), companies and other organizations. All decisions on financing, program activities, NKS policy etc. are made by the owners and the Board. All results are also available ([www.nks.org](http://www.nks.org)), free of charge, to anyone interested in NKS activities
- PIANOLIB has been funded by NKS two consecutive years with 320kDKK and 520kDKK, where aprox. 30 % of this allowance (managed by NKS) has been used to cover expenses for the transportation of the phantom used for the intercomparison for all participants
- Year 2011, the activity got also funding for this workshop and the acquisition of new radioactive material for the Nordic jointly owned phantoms.



## PIANOLIB, an NKS activity 2010, 2011

- NKS has funded previously activities arranging intercomparisons of in vivo measurement facilities. Last Nordic intercomparison of whole body counters was in 2004.





# Goals of the activity PIANOLIB

- Arrange and conduct the intercomparison exercise in order to evaluate the quality of in vivo measurements in the region
- To inventory the resources for whole body counting in the region
- Set up a library of phantoms to be operated and managed online
- Renew the regional calibration material with help of the NKS funding



# Expected results

- Harmonization of calibration procedures in the region
- Enable a transparent and simple system for the loan of calibration phantoms in the region
- Maintain and rebuild the good connections between facilities and specialists in order to preserve competence.



# Deliverables



- Report on regional inventory of resources and competence  
([http://www.nks.org/en/publications/search\\_for\\_reports/?tx=pianolib](http://www.nks.org/en/publications/search_for_reports/?tx=pianolib))



- Phantom library website
- The intercomparison and follow up workshop
- Final report and publication