

# 1<sup>st</sup> ISORED Scientific Meeting

May 16-18, 2023

SITGES, SPAIN

## DAY 1: May 16, 2023 - Occupational Radiation Exposures

- 8:45**      **Welcome Remarks**  
Introducing ISORED: Drs. Elisabeth Cardis and Amy Berrington  
Scope of meeting
- 9:00**      **Session 1: Medical Professionals**  
Chair: Dr. Sara Schonfeld (NCI, USA)  
Co-Chair: Dr. Altay Myssayev (ISGlobal, Spain)
- 9:05**      **Keynote Presentation 1**  
*The U.S. Radiologic Technologists Study: cohort updates and opportunities for collaboration*  
Dr. Cari Kitahara (NCI, USA)
- 9:30**      **Selected Presentation 1.1**  
*Risk of central nervous system tumors in healthcare workers occupationally exposed to ionizing radiation: preliminary results of a French nested case-control study in the ORICAMs cohort*  
Dr. Julie Lopes (IRSN, France)
- 9:45**      **Selected Presentation 1.2 (Early Career presenter)**  
*Lung cancer risk update in the US Radiologic Technologists Cohort: Can we revise sex-specific radiation-related risk estimates at low dose-rates?*  
Dr. Cato Milder (NCI, USA)
- 10:00**      **Session 1 General discussion**
- 10:15*      *Coffee Break and Poster Viewing – Posters 1-10*
- 10:45**      **Session 2: Non-medical Professionals**  
Chair: Dr. Dominique Laurier (IRSN, France)  
Co-Chair: Dr. Cato Milder (NCI, USA)
- 10:50**      **Keynote Presentation 2.1**  
*Updated findings from the International Nuclear Workers Study (INWORKS)*  
Dr. David Richardson (UCI, USA)
- 11:05**      **Keynote Presentation 2.2**  
*Findings from the Million workers study*  
Dr. Ashley Golden (ORAU, USA)
- 11:20**      **Selected Presentation 2.1**  
*Ionizing radiation exposure and cancer mortality: an update of the pooled US nuclear workers study*  
Dr. Kaitlin Kelly-Reif (NIOSH, USA)
- 11:35**      **Selected Presentation 2.2**  
*Updated Mortality Analysis of SELTINE, the French Cohort of Nuclear Workers, 1968–2014*  
Olivier Laurent (IRSN, France) **[Online presenter]**
- 11:50**      **Session 2 General discussion**
- 12:10**      **Flash Talk Session 1 – Posters # 1-10**  
Chair: Dr. Isabelle Munyangaju (ISGlobal, Spain)  
See [Programme](#)
- 13:00*      *Lunch*

- 14:00**      **Session 3: Environmental exposures**  
Chair: Dr. Ljubica Zupunski (IARC, France)  
Co-Chair: Dr. Monia Zidane (INSERM, France)
- 14:05**      **Keynote Presentation 3**  
*Radiation risk of solid cancers in the Life Span Study of atomic bomb survivors: 1958-2009*  
Alina Brenner (RERF, Japan)
- 14:30**      **Selected Presentation 3.1**  
*Genomic characterization of cervical lymph node metastases in papillary thyroid carcinoma following the Chornobyl accident*  
Dr. Lindsay Morton (NCI, USA)
- 14:45**      **Selected Presentation 3.2 (Early Career presenter)**  
*What are differences in radiation dose, thyroid Hormone and IQ levels associations in children exposed in utero by the Chernobyl accident and controls?*  
Dr. Liudmilla Liutsko (ISGlobal), Spain
- 15:00**      **Selected Presentation 3.3**  
*TG 121 - Effects of ionising radiation exposure in offspring and next generation*  
Dr. Degenhardt (Federal Office for Radiation Protection, Germany)
- 15:15**      **Selected Presentation 3.4**  
*Effects of Ionising Radiation Exposure in Offspring and Next Generations: Dosimetric Aspects and Uncertainties*  
Dr. Degenhardt (Federal Office for Radiation Protection, Germany)
- 15:30**      **Session 1 General discussion**
- 15:50*      *Coffee Break and Poster Viewing – Posters 11-21 (20 is an e-posters projected on screen)*
- 16:10**      **Session 4: Methodology**  
Chair: Dr. Michael Hauptmann (Brandenburg Medical School, Germany)  
Co-Chair: Dr. Anais Foucault (IRSN, France)
- 16:15**      **Selected Presentation 4.1**  
*A simulation-based method for estimating power and sample size for the linear excess relative risk (ERR) model*  
Dr. Susan Alber (U of California, Davis, USA)
- 16:30**      **Selected Presentation 4.2 (Early Career presenter)**  
*Finite-sample bias of the linear excess relative risk in cohort studies of computed tomography-related radiation exposure and cancer*  
Dr. Luca Caramenti (Medizinische Hochschule Brandenburg, Germany)
- 16:45**      **Selected Presentation 4.3**  
*Taking into account exposure-related uncertainties in dose-response analysis of German commercial aircrew mortality 1960-2014*  
Dr. Daniel Wollschlaeger (University Medical Center Mainz, Germany)
- 17:00**      **Selected Presentation 4.4 (Early Career presenter)**  
*Bayesian hierarchical approach to account for radon exposure measurement error when estimating the risk of death by lung cancer in an occupational cohort study*  
Dr. Julie Fendler (IRSN, France)
- 17:15**      **Session 4 General discussion**
- 17:35-18:30** **Flash Talk Session 2 – Posters # 11-21**  
Chair: Dr. Wyatt W. Smither (University of Florida, USA)  
See [Programme](#)

**19:00-20:00 Welcome Reception**

**Location: El Café de la Plata (3 min walk from Venue)<sup>1</sup> - to be confirmed**

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<sup>1</sup> \*Participants may want to plan for dinner in small groups afterwards

## DAY 2: May 17, 2023 - News from the field and Early career day 2023

- 8:30**      **Session 5: Joint RRS-ISoRED session**  
Chair: Benjamin French (Vanderbilt University Medical Center, USA)
- 8:35**      **Introduction**  
*The Radiation Research Society and ISOReD*  
Dr Benjamin French (Vanderbilt University Medical Center, USA)
- 8:50**      **Selected Presentation 5.1**  
*The scientific basis for the use of the Linear No-Threshold (LNT) model in radiation protection*  
Dr. Dominique Laurier (IRSN, France)
- 9:05**      **Selected Presentation 5.2**  
*Groundwork for a revision of radiation exposure assessments for the Japanese atomic bomb survivors*  
Dr. Keith Griffin (NCI, USA)
- 9:20**      **Session 5 General discussion**
- 9:35**      **Flash Talk Session 3 – Posters # 22-27**  
Chair: Dr. Hannah Chamberlin (University of Manchester, UK)  
See [Programme](#)
- 10:05*      *Coffee Break and Poster Viewing – Posters 22-27*
- 10:30**      **Flash Talk Session 4 – Posters # 28-35**  
Chair: Abigail Ukwuani (NCI, USA)  
See [Programme](#)
- 11:05**      **Session 6: Imaging Procedures**  
Chair: Dr. Lene Veiga (NCI, USA)  
Co-Chair: Dr. Dan Baaken (University Medical Center Mainz, Germany)
- 11:10**      **Keynote Presentation 6**  
*Imaging Utilization in Preterm Infants and Associated Radiation Exposure and Cancer Risk*  
Dr. Diana Miglioretti (University of California Davis, USA)
- 11:35**      **Selected Presentation 6.1**  
*Progress on establishing dose coefficients for common pediatric diagnostic fluoroscopic examinations in support of ICRP TG 113*  
Dr. Wyatt W. Smither (University of Florida, USA)
- 11:50**      **Selected Presentation 6.2**  
*Rapid dose calculation software for interventional cardiology*  
Dr. Jérémie Dabin (Belgian Nuclear Research Centre, Belgium)
- 12:05**      **Selected Presentation 6.3**  
*Risk of haematological malignancies after medical ionising radiation exposure from cardiac catheterisation during childhood: The French COCCINELLE cohort (follow- up 2000-2015)*  
Dr. Marie-Odile Bernier (IRSN, France)
- 12:20**      **Selected Presentation 6.4**  
*Organ dose calculation methods and tools for patients undergoing computed tomography, nuclear medicine, and fluoroscopy exams*  
Dr. Choonsik Lee (NCI, USA)
- 12:35**      **Session 6 General discussion**
- 12:55*      *Lunch*
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**13:55**      **Session 7 Dosimetry for radiotherapy**

Chair: Dr. Ibrahima Diallo (INSERM, France)

Co-Chair: Dr Sergio Morato Rafet (NCI, USA)

**14:00**      **Selected Presentation 7.1 [Online presenter]**

*Complete patient exposure during paediatric brain cancer treatment for photon and proton therapy techniques including imaging procedures*

Dr. Lorenzo Brualla (Westdeutsches Protonentherapiezentrum Essen, Germany)

**14:15**      **Selected Presentation 7.2**

*Dose reconstruction for a large-scale retrospective study on late health effects following radiotherapy within the National Wilms Tumor Study*

Dr. Matthew Mille (NCI, USA)

**14:30**      **Selected Presentation 7.3 (Early Career presenter)**

*An innovative and versatile deep learning approach to estimate the out-of-field dose*

Dr. Nathan Benzazon (Gustave Roussy, France)

**14:45**      **Session 7 General discussion**

**15:00-16:30 Mentoring and career development (with coffee)**

**15:00**      **Part I: Brief overview of ISoRED's Mentoring Program and testimonials from former program mentees**

**15:20**      **Part II: Developing successful mentoring relationships throughout your career:**

Dr. Lindsay Morton will reflect on experiences as both a mentee and mentor.

**15:45**      **Part III: Career development roundtables: Learn about different career paths through dynamic and informal small-group conversations.**

Broad career areas covered will include Research, Regulatory and Evidence Synthesis, Postdoctoral Research, and Teaching.

**16:30-19:30 Social Activities**

**See details on website – prior registration and payment necessary**

Sailing trip (from Sitges harbor)

Walking excursion in Garraf natural park with visit to an ecological winery

Historical walking tour of Sitges with museum visit

**20:30-23:00 Dinner at restaurant La Taberna del Puerto**

## DAY 3: May 18, 2023 - Medical Radiation Exposures

- 8:45**      **Session 8: Radiotherapy—with focus on paediatric patients**  
Chair: Isabelle Thierry-Chef (ISGlobal, Spain)  
Co-Chair: Angela Davey (University of Manchester, UK)
- 8:50**      **Keynote Presentation 8 (Early Career presenter)**  
Pediatric Proton Therapy: Toward improved survivorship for small superheroes  
Dr. Lydia Wilson (St Jude Children’s Research Hospital, USA)
- 9:15**      **Selected Presentation 8.1**  
*Radiation doses received by major organs in children and young adolescents treated for cancer with external beam radiation therapy: a large-scale study from 12 European countries*  
Dr. Ibrahima Diallo (INSERM, France)
- 9:30**      **Selected Presentation 8.2 (Early Career presenter)**  
*Genetic susceptibility to radiation therapy side effects in childhood cancer survivors in Gene-FCCSS project*  
Dr. Monia Zidane (INSERM, France)
- 9:45**      **Selected Presentation 8.3**  
*Stroke after radiation therapy for a childhood cancer, the CerebRad Project*  
Dr. Florent de Vathaire (INSERM, France)
- 10:00**     **Selected Presentation 8.4 (Early Career presenter)**  
*The risk of valvular heart disease in the French Childhood Cancer Survivors' Study: Contribution of Dose-Volume histogram parameters*  
Dr. Stefania Chounta (University Paris Saclay, France)
- 10:15**     **Session 8 General discussion**
- 10:35*      *Coffee Break and Poster Viewing – Posters 28-38 (28-31 are e-posters projected on screen)*
- 11:00**     **Session 9: Diagnostic exposure (focus on CT)**  
Chair: Dr. Florent de Vathaire (INSERM, France)  
Co-Chair: Dr. Elisa Pasqual (IARC, France)
- 11:05**     **Keynote Presentation 9**  
*An overview of CT studies and the European MEDIRAD perspective*  
Dr. Elisabeth Cardis (ISGlobal, Spain)
- 11:30**     **Selected Presentation 9.1**  
*Dose Estimation for the European Epidemiological Study on Pediatric Computed Tomography (EPI-CT)*  
Dr. Isabelle Thierry-Chef (ISGlobal, Spain)
- 11:45**     **Selected Presentation 9.2**  
*Results from the EPI-CT cohort study: risk of brain cancer after radiation exposure from CT examinations of children and young adults*  
Dr. Michael Hauptmann (Brandenburg Medical School, Germany)
- 12:00**     **Selected Presentation 9.3 (Early Career presenter)**  
*Accounting for organ dose uncertainties on childhood cancer risk estimates in the French CT cohort*  
Dr. Anaïs Foucault (IRSN, France)
- 12:15**     **Selected Presentation 9.4 (Early Career presenter)**  
*A nested case-control study on cancer risks from paediatric CT scans – protocol and illustration from Sweden*  
Mælle Canet (ISGlobal, Spain)
- 12:30**     **Selected Presentation 9.5**  
*Radiation Dose Associated with Common CT Examinations Over Time in the US and Ontario Canada*  
Dr. Rebecca Smith-Bindman (UCSF, USA)

- 12:45 **Session 5 General discussion**
- 13:00 *Lunch*
- 14:00 **Session 10: Radiotherapy (non-pediatric)**  
Chair: Dr. Sophie Jacob (IRSN, France)  
Co-Chair: Dr. Stefania Chounta (University Paris Saclay, France)
- 14:05 **Selected Presentation 10.1**  
*Dysfunction of the salivary and lacrimal glands after radioiodine therapy: 6- month follow-up results of a self-controlled study in France*  
Dr. Clement Baudin (IRSN, France)
- 14:20 **Selected Presentation 10.2**  
*Thoracic soft tissue sarcoma risk following breast cancer treatment in two US retrospective cohorts*  
Dr. Lene Veiga (NCI, USA)
- 14:35 **Selected Presentation 10.3 (Early Career Presenter)**  
*Radiation dose-response for cardiac events in breast cancer patients in Germany treated with 3D-conformal radiotherapy: a nested case-control study of the ESCaRa project*  
Dan Baaken (University Medical Center Mainz, Germany)
- 14:50 **Selected Presentation 10.4**  
*Risk of second primary malignancies after radioactive iodine treatment for thyroid cancer in patients younger than 45 years: a SEER (1975-2017) database analysis*  
Dr. Elisa Pasqual (IARC, France)
- 15:05 **Selected Presentation 10.5**  
*Risk of therapy-related subsequent cancers in individuals with germline TP53 variants*  
Dr. Lindsay Morton (NCI, USA)
- 15:20 **Session 10 General discussion**
- 15:35 *Coffee Break*
- 16:00 **Awards Early Career Researcher and Closing**  
Chair: Dr. Amy Berrington (Institute for Cancer Research, UK)  
*Best Early Career Presentation*  
*Best Early Career Poster*
- 16:30-18:00 **Discussion on the future of ISoRED**  
Chair: Dr. Amy Berrington (Institute for Cancer Research, UK)  
*Programme in preparation*

## Flash Talks Provisional programme

Tuesday 16 May 12:10-12:59

Flash talk session 1 – Posters # 1-10

Poster #	Start	End	Speaker	Early career	Poster title	In person/virtual
1	12:10	12:14	Luca Caramenti	Yes	A review of current evidence on skin cancer and ionizing radiation	In person
2	12:15	12:19	Hiroshige Furuta		Advantages of Japanese nuclear workers cohort J-EPISOD	In person
3	12:20	12:24	Sergio Morato Rafet	Yes	Anatomical predictive extension of partial-body CT scans for assessing organ dose in support of epidemiological studies on late effects following radiotherapy	In person
4	12:25	12:29	Evgenia Ostroumova		Cancer risks after low-dose exposure to ionizing radiation: IARC perspectives	In person
5	12:30	12:34	Vladimir Drozdovitch		Dose Reconstruction for Epidemiological Studies among Chernobyl Cleanup Workers	In person
6	12:35	12:39	Ljubica Zupunski		Haematological malignancies in the most contaminated regions of Belarus and Ukraine after the Chernobyl accident: ecological study	In person
7	12:40	12:44	Thibaud Charrier	Yes	Increased Cardiac Risk After a Second Malignant Neoplasm Among Childhood Cancer Survivors, a FCCSS Study	In person
8	12:45	12:49	Ibrahima Diallo		LySAIRI research program: towards lymphocyte-sparing radiotherapy	In person
9	12:50	12:54	Ashley Golden		Preliminary results from a mortality study of Rocky Flats nuclear workers: a Million Person Study cohort	In person
10	12:55	12:59	Dalnim Lee	Yes	Radiation exposure and mortality in a cohort of Korean radiation workers	In person

Tuesday 16 May 17:35-18:30  
Flash talk session 2 – Posters # 11-21

Poster #	Start	End	Speaker	Early career	Poster title	In person/virtual
11	17:35	17:39	Aidana Amrenova	Yes	Synthesis of recent results from the literature on heritable effects of radiation exposure among humans	
12	17:40	17:44	Sehajpreet Gill	Yes	Assessment of medical radiation exposure within the German National Cohort (NAKO) - results, current work and outlook	In person
13	17:45	17:49	Clemence Baudin		Brain CancEr risk in joint cOhort of MEdical workers exposed to Ionizing radiation in France, USA and Korea (BECOME)	In person
14	17:50	17:54	Claire Ducos	Yes	Identification of rare variants involved in the risk of second cancer following radiotherapy and chemotherapy treatment of pediatric cancer	In person
15	17:55	17:59	Maëlle Canet	Yes	Cancer effects of low to moderate doses of ionising radiation in young people with cancer predisposing conditions: A systematic review.	In person
16	18:00	18:04	Sara J. Schonfeld		Changing Patterns of Irradiation In Conditioning Regimens for Allogeneic Hematopoietic Cell Transplantation (HCT) for Hematologic Malignancies and Implications for Subsequent Neoplasm (SN) Risk: Preliminary Analyses Within A Novel Linked Dataset of Center For International Blood And Marrow Transplant Research (CIBMTR) and California Cancer Registry (CCR) Data	In person
17	18:05	18:09	Andreas Jahnen		DICOMInspector: Collection and analysis of exposure data from clinical procedures	In person
18	18:10	18:14	Stefania Chounta	Yes	Dosimics-based prediction algorithms of radiation-induced valvulopathy after treatment for childhood cancer	In person
19	18:15	18:19	Malini Mahendra		Organ Doses Associated with Diagnostic Computed Tomography (CT): Results from the UCSF International CT Dose Registry	Virtual (US)
20	18:20	18:24	Elnaz Naderi	Yes	Meta-GWAS identifies the heritability of acute radiation-induced toxicities in head and neck cancer	Virtual (US)
21	18:25	18:29	Lori Chappell		The impact of baseline cancer rates on lifetime risk estimates of space radiation-induced cancer	In person



Wednesday 17 May 9:35-10:05  
Flash talk session 3 – Posters # 22-27

Poster #	Start	End	Speaker	Early career	Poster title	In person/virtual
22	9:35	9:39	Naila Aba	Yes	A case-control study to identify potential genetic biomarkers related to cardiac diseases occurrence in childhood cancer survivors	In person
23	9:40	9:44	Lydia Wilson		A descriptive analysis to aid discovery of relationships between radiotherapy for childhood cancer and neurocognitive outcomes	In person
24	9:45	9:49	Marianne Aznar		Breast doses received by young women treated for lymphoma between 2005 and 2021: a single institution study	In person
25	9:50	9:54	Luca Caramenti	Yes	A twin study on the genetic component of acute toxicity after radiotherapy-related radiation exposure	In person
26	9:55	9:59	<b>TBD</b>		Radiation-induced neurotoxicity assessed by spatio-temporal modelling combined with artificial Intelligence after brain radiotherapy: the RADIO-AIDE project.	In person
27	10:00	10:04	Florent de Vathaire		Increase in coronary artery calcification and atherosclerotic plaques over two years in breast cancer patients treated with radiation therapy: association with cardiac exposure (BACCARAT study)	In person

Wednesday 17 May 10:30-11:10  
Flash talk session 4 – Posters # 28-35

Poster #	Start	End	Speaker	Early career	Poster title	In person/virtual
28	10:30	10:34	Varsha Hande	Yes	Changes in risk perception over time among residents of a town affected by the Fukushima nuclear accident	Virtual (Japan)
29	10:35	10:39	Ye Jin Bang	Yes	Impact of potential confounders for occupational radiation exposure and cancer incidence among radiologic technologists	Virtual (Korea)
30	10:40	10:44	Yutaka Hamaoka		Thyroid Nodules and Cancers in Fukushima: An Analysis with Updated UNSCEAR Thyroid Dose Estimates	Virtual (Japan)

31	10:50	10:49	Noriaki Yoshida		Incidence and characteristics of multiple myeloma among A-bomb survivors	Virtual (Japan)
32	10:50	10:54	Prakash Hande		Importance of educational dialogue in public perception of low dose radiation risks	In person
33	10:55	10:59	Dominique Laurier		The Global Register of Low Dose Research Projects	In person
34	11:00	11:04	Afi Henryoh		Radiological component of the exposome and risks of chronic diseases in the Constances cohort (CORALE)	In person
35	11:05	11:09	Meïssane M'hamdi		The use of radiophotoluminescent (RPL) glass dosimeters for out-of-field dose measurements, in vivo, during external beam radiotherapy	In person