



THE RADIOLOGICAL ACCIDENT AT THE IRRADIATION FACILITY IN NESVIZH



IAEA

Radiological Accident At The Irradiation

International Atomic Energy Agency

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the IAEA text.

Radiological Accident At The Irradiation:

The Radiological Accident in San Salvador International Atomic Energy Agency, 1990 On 5 February 1989 a radiological accident occurred at an industrial irradiation facility near San Salvador El Salvador Medical products are sterilized at the facility by irradiation by means of an intensely radioactive cobalt 60 source in a movable source rack This source rack became stuck in the irradiation position The operator bypassed the irradiator's degraded safety systems and entered the radiation room with two other workers to free the source rack manually The three men were exposed to high radiation doses and developed the acute radiation syndrome They received initial hospital treatment in San Salvador and subsequent more specialized treatment in Mexico City The legs and feet of two men were so seriously injured that amputation was required The worker who had been most exposed died six and a half months after the accident from lung damage due to irradiation complicated by injury sustained during treatment The report describes the accident and the response to it and presents lessons derived for operators and suppliers of irradiators national authorities medical staff and international organizations Detailed information on dosimetric and medical aspects of the accident is presented in appendices and annexes

Radiacionnaja avarija v San-Sal'vadore International Atomic Energy Agency, 1992 **Lessons Learned from Accidents in Industrial Irradiation Facilities** International Atomic Energy Agency, 1996 The purpose of this publication is to present the results of a review of accidents in industrial radiography which have either been reported to regulatory authorities or to professional associations or been published in scientific journals Use of ionizing radiation in medicine industry and research for technical development continues to increase throughout the world Although this industry has a good safety record there is a potential for accidents with serious consequences to human health because of the high dose rates produced by these sources Five fatal accidents occurred between 1975 and 1994 Such accidents have prompted the present review carried out by a team of manufacturers regulatory authorities and operating organizations Having closely looked at the circumstances of each accident the apparent deficiencies in design safety and regulatory systems and personnel performance the team made a number of recommendations The findings of extensive research pertaining to the lessons that can be learned from irradiation accidents are presented *The Medical Basis for Radiation-Accident Preparedness* Robert C. Ricks, Mary Ellen Berger, Frederick M. O'Hara, Jr., 2002-01-04 Major radiation accidents cause widespread and common psychosocial problems independent of cultural ethnic political and socioeconomic aspects of the location of the accident As a doctor nurse or emergency room staff you are the first line of defense when these accidents happen New developments over the past several years enable physicians to enhance survival and ease the discomfort of patients injured by radiation The Medical Basis for Radiation Accident Preparedness The Clinical Care of Victims presents the current state of the art in radiation medicine and focuses on the practical issues of importance to the clinicians and nurses who have responsibility for diagnosing treating and caring for the radiation accident patient Topics range from dose assessment to socioeconomic considerations with extensive

analyses of treatment options for exposure to different parts of the body As a special feature the work supplies case histories of six recent significant radiological accidents and also includes bibliographic references and index You don't know when you may be involved in treating radiation accident patients In today's uncertain world it could happen at any time Drawing on the expertise of a wide variety of contributors both within and outside of the field of radiation management The Medical Basis for Radiation Accident Preparedness The Clinical Care of Victims provides further insight into the complex care and teamwork needed in the management of the acutely injured patient

Medical Management of Radiation Accidents Kenneth S. Cohen, 2001-03-28 Although radiation accidents are rare and often complex in nature they are of great concern not only to the patient and involved medical staff but to the media and public as well Yet there are few if any comprehensive publications on the medical management of radiation accidents Medical Management of Radiation Accidents provides a complete reference

Medical Aspects of Radiation Accidents Eugene L. Saenger, University of Cincinnati. College of Medicine, 1963 **The Radiological Accident in Soreq** International Atomic Energy Agency, 1993 On 21 June 1990 a fatal radiological accident occurred at an industrial irradiation facility at Soreq Israel An operator entered the irradiation room by circumventing safety systems and was acutely exposed with an estimated whole body dose of 10-20 Gy The accident like earlier accidents at similar irradiators was the consequence of the contravention of operating procedures An IAEA review team investigated the causes of the accident This report presents its findings and recommendations and describes the clinical management of the patient particularly of the haematological phase The medical treatment included the use of emerging therapies with haematopoietic growth factor drugs which may rescue the overexposed patient albeit in this case only temporarily The report is intended for regulatory authorities responsible for the regulation and inspection of irradiators operating organizations and physicians who may need to treat overexposed patients

The Radiological Accident in Lilo International Atomic Energy Agency, 2000 The radiological accident described in this report took place in Lilo Georgia when sealed radiation sources were abandoned by a previous owner at a site without following established regulatory safety procedures As a consequence 11 individuals at the site were exposed for a long period of time to high doses of radiation which resulted inter alia in severe radiation induced skin injuries The present report which is co-sponsored by the World Health Organization provides information on the medical management of radiation induced skin injuries as well as a comprehensive report on the circumstances and details of the accident and the lessons to be learned

The Radiological Accident in the Reprocessing Plant at Toms International Atomic Energy Agency, 1998 On 6 April 1993 a major radiological accident occurred at a plutonium extraction facility at a location then known as Toms 7 Russian Federation The accident blew the concrete cover off the reaction vessel and led to widespread contamination of the site and the surrounding area up to a distance of 28 km The report describes the events leading up to the accident and the radiological consequences It provides a detailed description of the decontamination and recovery operations and gives an analysis of their effectiveness

Radiological Accident in Samut Prakarn, 2002 In late January and early February 2000 a radiological accident occurred in Samut Prakarn Thailand when a disused Co 60 teletherapy head was partially dismantled taken from an unsecured storage location and sold as scrap metal Altogether ten people received high doses from this source out of whom three died within two months of the accident as a consequence of their exposure The present report gives an account of the circumstances which led to the accident the medical aspects and the lessons learned **The Radiological Accident in Goiânia**

International Atomic Energy Agency, 1988 The Government and authorities in Brazil were faced with a tragic accident in Goiânia resulting from the misuse of a strongly radioactive medical teletherapy source not under radiation protection surveillance The present report is divided into four parts a chronology of discovery of the source discovery of the accident and initial response a description of the human consequences and the dosimetry and treatment of seriously exposed and contaminated persons an account of the assessment of the environmental contamination and the remedial actions taken and observations and recommendations Appendices and annexes give an assessment of the effectiveness of international co operation in the emergency response and provide further information on public communications radiological survey equipment guidelines for the discharge of patients radiological protection chemical decontamination and the lessons learned **The Radiological**

Accident in Gilan, 2002 On 24 July 1996 a serious accident occurred at the Gilan combined cycle fossil fuel power plant in the Islamic Republic of Iran A worker unknowingly put an unshielded 185 GBq iridium 192 source used for industrial radiography in his pocket As a result of exposure to the iridium source the worker suffered from severe haematopoietic syndrome bone marrow depression and an unusually extended localized radiation injury requiring plastic surgery This report gives a detailed account of the medical aspects of the accident and the lessons learned Handling of Radiation Accident

Patients Thomas A. Carder, 2018-01-18 This book provides guidelines procedures and techniques for emergency support personnel involved with handling radiation accident patients Prepared by a former emergency medical responder this book amplifies the level of radiological response training provided to emergency medical technicians and emergency room physicians and nurses Supporting graphics references and a glossary help readers understand the critical aspects of emergency trauma treatment L'accident radiologique de San Salvador International Atomic Energy Agency, 1990 **The**

Radiological Accident in Cochabamba International Atomic Energy Agency, 2004 In April 2002 an accident involving an industrial radiography source containing Ir 192 occurred in Cochabamba Bolivia some 500 km from the capital La Paz The source in a remote exposure container remained exposed within a guide tube although this was not known at the time The container guide tube and other equipment were transported from Cochabamba to La Paz as cargo on a passenger bus This bus had a full load of passengers for most of the eight hour journey The equipment was subsequently collected by employees of the company concerned and transferred by taxi to the company's shielded facility This publication gives an account of the event the doses received and the medical assessment It also presents information relevant to national authorities and

regulatory organizations emergency planners and a broad range of specialists including physicists radiation protection officers and medical specialists It is hoped that dissemination of the information contained in the report will help reduce the likelihood of similar accidents occurring or if they do occur help mitigate their consequences

Planning the Medical Response to Radiological Accidents International Atomic Energy Agency,1998 This Safety Report was jointly sponsored by the IAEA and WHO It outlines the roles and tasks of health authorities and hospital administrators in emergency preparedness for radiological accidents and provides information relevant to the integration of medical preparedness into emergency plans

The Radiological Accident in Chilca International Atomic Energy Agency,2018-02-28 Under the Convention on Assistance in the Case of a Nuclear or Radiological Emergency the Peruvian authorities requested assistance from the IAEA in relation to the radiological accident that occurred during non destructive testing using a nuclear radioactive source in the district of Chilca Peru in 2012 This assistance related to dose assessment and medical management of those involved in the accident was provided during 2012 and 2013 The report gives a detailed account and analysis of the event as well as the actions taken in order to assist organizations responsible for radiation protection source safety and emergency preparedness and response in identifying lessons to be learned that may help to prevent similar accidents

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Handling of Radiation Accident Patients Thomas A. Carder,2018-01-18 This book provides guidelines procedures and techniques for emergency support personnel involved with handling radiation accident patients Prepared by a former emergency medical responder this book amplifies the level of radiological response training provided to emergency medical technicians and emergency room physicians and nurses Supporting graphics references and a glossary help readers understand the critical aspects of emergency trauma treatment

Radiation Toxicology Jolyon H Hendry,1995-11-30 This text covers every injury to the bone marrow which can occur from low and high doses of ionising radiation for example X rays gamma rays and especially damaging types of radiation such as alpha rays

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