

1. Record Nr.	UNINA9911004758603321
Titolo	Population monitoring and radionuclide decorporation following a radiological or nuclear incident // recommendations of the National Council on Radiation Protection and Measurements
Pubbl/distr/stampa	Bethesda, Md., : National Council on Radiation Protection and Measurements, 2011
ISBN	1-61344-117-7 1-4416-9553-2
Descrizione fisica	1 online resource (297 p.)
Collana	NCRP report ; ; no. 166
Disciplina	616.9/897
Soggetti	Radiation - Physiological effect Radiation - Safety measures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"April 6, 2010."--t.p.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>""Cover""; ""Preface""; ""Contents""; ""1. Executive Summary""; ""2. Introduction""; ""2.1 Overview""; ""2.2 Purpose of this Report""; ""2.3 Target Audiences of this Report""; ""2.4 Scope of this Report""; ""3. Background Information""; ""3.1 Internal Deposition of Radionuclides""; ""3.1.1 Inhalation""; ""3.1.2 Ingestion""; ""3.1.3 Absorption from Skin Contamination""; ""3.1.4 Absorption Through Wounds""; ""3.2 External Contamination""; ""3.3 Effects of Weather""; ""3.4 Complications Due to the Presence of Multiple Agents or Serious Injuries""; ""3.5 Radiological Triage""</p> <p>""3.6 Proximity to the Incident""""3.7 Previous Experience with Internal Contamination""; ""3.8 Conclusions""; ""4. Settings in Which Persons May Become Contaminated with Radioactive Material""; ""4.1 Radiological Dispersal Device""; ""4.1.1 Incident Characteristics""; ""4.1.2 Nature of Contamination""; ""4.2 Aerosol Dispersal into a Public Area""; ""4.2.1 Incident Characteristics""; ""4.2.2 Nature of Contamination""; ""4.3 Contamination of Food or Water Supplies""; ""4.3.1 Incident Characteristics""; ""4.3.2 Nature of Contamination""; ""4.4 Improvised Nuclear Device""</p> <p>""4.4.1 Incident Characteristics""""4.4.2 Nature of Contamination""; ""4.5 Nuclear Reactor Incident""; ""4.5.1 Incident Characteristics"";</p>

""4.5.2 Nature of Contamination""; ""4.6 Large-Scale Fires and Incidents""; ""4.6.1 Incident Characteristics""; ""4.6.2 Nature of Contamination""; ""4.7 Sealed Radioactive Source Incidents""; ""4.7.1 Incident Characteristics""; ""4.7.2 Nature of Contamination""; ""4.8 Summary""; ""5. Coordination with the Incident Command System""; ""5.1 Introduction""; ""5.2 Incident Command System""; ""5.3 Hospital Incident Command System""
 ""5.4 Coordination Between Incident Command System and Hospital Incident Command System""""5.5 Communicating Information from the Scene to the Hospitals and from the Hospitals to the Scene""; ""6. Radiological Triage and Screening Guidance""; ""6.1 General Guidance for Emergency Responders""; ""6.1.1 Selecting an Appropriate Radiation Survey Instrument""; ""6.1.2 Presurvey Radiation Survey Instrument Checks""; ""6.1.3 Surveying for Radioactive Contamination""; ""6.2 Radiological Triage and Screening Procedures""; ""6.3 Initial Screening at Scene""; ""6.4 Initial Screening at Hospital""
 ""6.5 Mass Screening Following the Emergency Phase""""6.6 Biodosimetry""; ""7. Clinical Decision Guide: Concept and Use""; ""7.1 Clinical Decision Guide Concept""; ""7.2 Clinical Use of the Clinical Decision Guide""; ""7.2.1 Decision-Making Process""; ""7.2.2 Use of the CDG Tables""; ""7.2.3 Use of a Single-Void Urine Sample Collected During the First 24 h""; ""7.2.4 Using the CDG with an Intake of Multiple Radionuclides""; ""7.2.5 Determining an Intake for Times More than 24 h in the Past""; ""7.2.6 Special Considerations for Uranium CDGs""
 ""7.3 Americium-241: Clinical Decision Guide Fact Sheet""

Sommario/riassunto

This Report is the second of two reports by the National Council on Radiation Protection and Measurements (NCRP) that focus on measurement of radionuclides deposited internally in a population exposed in a radiological or nuclear incident. The first report, NCRP Report No. 161, entitled Management of Persons Contaminated with Radionuclides (NCRP, 2008a), is an update and expansion of NCRP Report No. 65, Management of Persons Accidentally Contaminated with Radionuclides (NCRP, 1980) that provides detailed guidance for many radionuclides in a much broader range of exposure scenarios. The present Report focuses on screening a population exposed to one or more radionuclides that may be involved in a radiological or nuclear incident.
