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	Titolo	Operations Research Proceedings 2018 : Selected Papers of the Annual International Conference of the German Operations Research Society (GOR), Brussels, Belgium, September 12-14, 2018 / Bernard Fortz, Martine Labbé editors
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	Titolo	Preparing hospitals for bioterror : a medical and biomedical systems approach / / Joseph H. McIsaac, III, editor
	Pubbl/distr/stampa	Amsterdam ; ; Boston, : Elsevier Academic Press, c2006
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	Descrizione fisica	1 online resource (461 p.)
	Collana	Biomedical Engineering
	Altri autori (Persone)	McIsaacJoseph H
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Title Page; Copyright Page; Table of Contents; Contributor list; Preface; Acknowledgments; 1. Recurring Pitfalls in Hospital Preparedness and Response; 1.1 Introduction; 1.2 Hospital Challenges and Constraints; 1.3 Hospital Requirements; 1.4 Observations; 1.5 Communications; 1.6 Security; 1.7 Decontamination; 1.8 Staff Training; 1.9 Staff Protection; 1.10 Exercise Design and Conduct; 1.11 Suggestions; 1.12 Communications; 1.13 Security; 1.14 Decontamination; 1.15 Staff Training; 1.16 Staff Protection; 1.17 Exercises; 1.18 Critical Steps; References 2. The History and Threat of Biological Weapons and Bioterrorism2.1 Introduction; 2.2 Biological Weapons in the Ancient World; 2.3 Battlefield Use of Infectious Diseases, or ""Giving The Gift That Keeps On Giving""; 2.4 Biological Contamination of Water Supplies; 2.5 Biological Contamination of Food; 2.6 Toxin Weapons; 2.7 World War I-German Saboteurs; 2.8 World War I-US Research; 2.9 World War II-Japan; 2.10 World War II-Germany; 2.11 World War II-United States; 2.12 Post-WWII to Modern Era; 2.13 Soviet Biological Weapons Program; 2.14 US Biological Weapons Program; 2.15 Aum Shinrikyo 2.16 Rajneeshees2.17 St. Paul Medical Center, Dallas; 2.18 Other Recent Bioterrorism Incidents; 2.19 Biological Weapons and Countries Thought to Possess Them; References; 3. Hospital Syndromic Surveillance; 3.1 Hospital Inpatient Data; 3.2 Hospital Emergency Department Data; 3.3 Other Data Streams; 3.4 Confirmatory Clinical Data; 3.5 Pre-Diagnostic Clinical Data; 3.6 Non-Traditional Health Indicator Data; 3.7 Selection of Data Elements; 3.8 Data Acquisition and Presentation; 3.9 Data Analysis: Algorithms for Aberration Detection; 3.10 Control Chart Usage; 3.11 Issues in Aberration Detection 3.12 Upcoming Challenges in Hospital-Based Aberration Detection3.13 Summary; References; 4. Biological Agents, Effects, Treatment, and Differential Diagnosis; 4.1 Disease: Anthrax; 4.2 Disease: Botulism Intoxication; 4.3 Disease: Plague; 4.4 Disease: Smallpox; 4.5 Disease: Tularemia; 4.6 Disease: Viral Hemorrhagic Fever; 4.7 Disease: Brucellosis; 4.8 Disease: Glanders; 4.9 Disease: Q Fever; 4.10 Disease: Ricin Intoxication; 4.11 Disease: Staphylococcal Enterotoxin B Intoxication; 4.12 Disease: Trichothecene Mycotoxin (T2) Intoxication; References 5. Medical Considerations for Radiological TerrorismDisclaimer; 5.1 Introduction; 5.2 Physics; 5.3 Decontamination, Diagnosis, and Management; References; Radiological Casualty Related Websites; Appendix: Terrorism with Ionizing Radiation General Guidance Pocket Guide; 6. Nerve and Chemical Agents; Disclaimer; 6.1 Introduction; 6.2 Nerve Agents; 6.3 Cyanide; 6.4 Vesicants; References; Suggested Comprehensive Resources; 7. Decontamination and Personal Protection; 7.1 Removal of Clothing; 7.2 Skin Contamination; 7.3 Training; 7.4 Surgical Wound Decontamination; 7.5 Site Security 7.6 Site Layout
Sommario/riassunto	Hospital Preparation for Bioterror provides an extremely timely guide to improving the readiness of hospitals or healthcare organizations to manage mass casualties as a result of bioterrorism, biological warfare, and natural disasters. Contributions from leading law enforcement agencies, hospital administrators, clinical engineers, surgeons and terror-prevention professionals provide the most comprehensive, well-rounded source for this valuable information. Chapters on logistics and protecting the infrastructure help personnel distinguish the specific risks and vulnerabilities of each u

