



Medical Research in Times of BioTerrorism

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Medical Research/Bioterrorism

Broad Spectrum

- Biomedical
- Clinical
- Health Services
- Social/Behavioral
- Informatics
- Risk Analysis/Modeling
- Communications
- Bio-forensics

Medical Research/Bioterrorism

Some Critical Elements

- **Size and Nature of Investments**
- **Comprehensive dual use strategy**
- **Recruitment of best and brightest**
- **Integration with all areas of biology**
- **Multi-agency coordination**
- **New models e.g. rapid turnaround**

Medical Research/Bioterrorism

Health in Global Security

- TBC, HIV, Malaria, Chronic disease, etc.
- Global Surveillance
- Economic Development
- Failed States/Terrorist Camps
- Political Stability
- Public Diplomacy

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Biomedical Targets

- **Pre-symptomatic Diagnostics**
- **Rapid Disease Diagnostics**
- **Sensors**
- **Genomics**
- **Vaccines**
- **Antibiotics/Resistance**
- **Antivirals**
- **Cost effective approaches/Global**

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Clinical Research

- **Human Subjects**
- **Domestic/International Controversies**
- **Regulatory Process (new FDA rules)**
- **Licensing**

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Health Services Research

- Hospital/Bed Utilization
- Surge Capacity
- Laboratory Functions
- Community Organization
- Special Populations
- Technology Assessment

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Social/Behavior Sciences

- **Anxiety/Security**
- **Prevention/Response**
- **Stress Management**
- **Impact on Children**
- **Rational/Irrational Concerns**
- **Concepts of Risk**
- **Ethical Issues e.g. vaccination**

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Communications

- Risk Communication
- Professional Information
- Public Information
- Media Roles
- Organizational Issues

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Information

- **Technology**
- **Interoperability**
- **Surveillance**
- **Communications**
- **Training**
- **Evaluation**

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Challenges

- **Long term vs Short term Goals**
- **Coordination/Collaboration**
- **Openness/Secrecy**
- **Publication Concerns**