COVID-19
Demonstration and Lessons of Multiple-Order Biosecurity Risks and Threats

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Disclaimer

The information and views presented are those of the author, and do not necessarily reflect those of the US Department of Defense, US Naval War College, DARPA or the organizations and institutions that have provided support for this work.
COVID-19

• NOT a bioweapon

Yet...

• Clear and present threat to biosecurity

• Current and latent multi-dimensional, reciprocally interactive effects
  • Biological
  • Psychological
  • Socio-economic
  • Political
Biorisk/Biosecurity Considerations and Concerns

- While Mass Destruction is possible...
  - RDTE/Use in such ways constrained by current BTWC, CWC
- Mass *DISRUPTION* is likely...
  - RDTE not necessarily bounded by BTWC/CWC
  - Non-kinetic in articulation and effect
  - Incurs “ripple effects” on/across scales and levels
Demonstration of Biosecurity Vulnerability

• **Preparedness Process**
  • Infrastructure and Coordinated Response Functions
  • Surveillance
  • Quantification
  • Readiness: Review, Revision

• **2010 NATO Moldova Model**

• **Crimson Contagion Exercise**

• **2019 Report to Senate Intelligence Committee**

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Strategic Envisioning – and Engagement

Vista of:

• **Probability:** Present to 5 years
  "What exists now, and ‘soon’…"

• **Possibility:** 5 to 10 years
  "Given probabilities, what might occur…"

• **Potentiality:** 10 to 25/30 years
  "Given possibilities, what could be done with them…"
Whole of Nation approach required to identify, characterize, counter, and exploit/prevent biosecurity risks and threats to United States’ public health and socio-economic stability
Thrust 1
Increase Awareness

Academic Institutions

Research Centers

Intelligence Community

Thrust 2
Quantify the Threat

Law Enforcement

National Labs

Industry

Intelligence Community

State Department

DHS

Department of Defense

Thrust 3
Counter the Threat

Thrust 4
Prevent/Delay Future Adversary Effectiveness
Summary

Biosecurity risks/threats are increasing: clear and present danger to U.S. national security and stability

Establish PMO/POR **now**

- Fund research in technologies, innovations, countermeasures, and solutions
- Develop capabilities to address and defeat evolving biosecurity (natural, kinetic and non-kinetic) threats (ie- Strategic Plan and tactical flexibilities)
- Remain ahead of competitors abilities to exploit US weaknesses
- Engage Whole of Nation approach leveraging all sectors of national power
Additional Information


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