The Biological Weapons Convention

Overview and prospects

Christian Enemark National Security College







Sir Frank Macfarlane Burnet OM AK KBE Winner of the Nobel Prize for Medicine Australian of the Year (1960)



The norm against biological warfare

- Geneva Protocol (1925)
- US renunciation of BW (1969)

Biological Weapons Convention (1972)

"bacteriological (biological) agents and toxins being used as weapons ... would be repugnant to the conscience of mankind"

Maintaining the norm today

technology, law and ethics

Richard Nixon



Biological Weapons Convention (1972)

Article I

Each State Party to this Convention undertakes never in any circumstances to develop, produce, stockpile or otherwise acquire or retain:

 Microbial or other biological agents, or toxins whatever their origin or method of production, of types and in quantities that have no justification for prophylactic, protective or other peaceful purposes;

(2) Weapons, equipment or means of delivery designed to use such agents or toxins for hostile purposes or in armed conflict.

Australian Law

Crimes (Biological Weapons) Act 1976 (Cth), Section 8:

(1) It is unlawful to develop, produce, stockpile or otherwise acquire or retain:

(a) microbial or other biological agents, or toxins whatever their origin or method of production, of types and in quantities that have no justification for prophylactic, protective or other peaceful purposes; or
(b) weapons, equipment or means of delivery designed to use such agents or toxins for hostile purposes or in armed conflict.

(2) A corporation that, or a natural person who, does an act or thing declared by subsection (1) to be unlawful is guilty of an offence and is punishable, on conviction:

(a) in the case of a corporation—by a fine not exceeding \$200,000; and
(b) in the case of a natural person—by a fine not exceeding \$10,000, or by imprisonment for a specified period or for life, or both.

Biological Weapons Convention (1972)

Other key provisions:

Article III Not to transfer, or in any way assist, encourage or induce anyone else to acquire or retain biological weapons.

Article IV To take any national measures necessary to implement the provisions of the BWC domestically.

Article VITo request the UN Security Council to investigate
alleged breaches of the BWC and to comply with its
subsequent decisions.

Article X To do all of the above in a way that encourages the peaceful uses of biological science and technology

National Health Security Act 2007

"security-sensitive biological agents"

Tier 1	Tier 2
Abrin	African swine fever
Bacillus anthracis	Capripox virus
Botulinum toxin	Classical swine fever virus
Ebolavirus	Clostridium botulinum
Foot and mouth disease virus	Francisella tularensis
Highly pathogenic Influenza A virus, infecting humans (including Avian Influenza H5N1)	Lumpy skin disease virus
Marburgvirus	Peste des petits ruminants virus
Ricin	Salmonella Typhi
Rinderpest	Vibrio cholerae (O1 and O139)
SARS coronavirus	Yellow fever virus
Variola virus	For more information go to www.health.gov.au/SSBA
Yersinia pestis	

HHS SELECT AGENTS AND TOXINS Abrin Botulinum neurotoxins Botulinum neurotoxin producing species of Clostridium Cercopithecine herpesvirus 1 (Herpes B virus) Clostridium perfringens epsilon toxin Coccidioides posadasii/Coccidioides immitis Conotoxins Coxiella burnetii Crimean-Congo haemorrhagic fever virus Diacetoxyscirpenol Eastern Equine Encephalitis virus Ebola virus Francisella tularensis Lassa fever virus Marburg virus Monkeypox virus Reconstructed replication competent forms of the 1918 pandemic influenza virus containing any portion of the coding regions of all eight gene segments (Reconstructed 1918 Influenza virus) Ricin Rickettsia prowazekii Rickettsia rickettsii Saxitoxin Shiga-like ribosome inactivating proteins Shigatoxin South American Haemorrhadic Fever viruses Flexa Guanarito Junin Machupo Sabia. Staphylococcal enterotoxins T-2 toxin Tetrodotoxin Tick-borne encephalitis complex (flavi) viruses Central European Tick-borne encephalitis Far Eastern Tick-borne encephalitis Kvasanur Forest disease Omsk Hemorrhagic Fever Russian Spring and Summer encephalitis Variola major virus (Smallpox virus) Variola minor virus (Alastrim) Yersinia pestis

OVERLAP SELECT AGENTS AND TOXINS

Bacillus anthracis Brucella abortus Brucella melitensis Brucella suis Burkholderia mallei (formerly Pseudomonas mallei) Burkholderia pseudomallei (formerly Pseudomonas pseudomallei) Hendra virus Nipah virus Rift Valley fever virus Venezuelan Equine Encephalitis virus

USDA SELECT AGENTS AND TOXINS

African horse sickness virus African swine fever virus Akabane virus Avian influenza virus (highly pathogenic) Bluetonaue virus (exotic) Bovine spongiform encephalopathy agent Camel pox virus Classical swine fever virus Ehrlichia ruminantium (Heartwater) Foot-and-mouth disease virus Goat pox virus Japanese encephalitis virus Lumpy skin disease virus Malignant catarrhal fever virus (Alcelaphine herpesvirus type 1) Menangle virus Mycoplasma capricolum subspecies capripneumoniae (contagious caprine pleuropneumonia) Mycoplasma mycoides subspecies mycoides small colony (MmmSC) (contagious bovine pleuropneumonia) Peste des petits ruminants virus Rinderpest virus Sheep pox virus Swine vesicular disease virus Vesicular stomatitis virus (exotic): Indiana subtypes VSV-IN2, VSV-IN3 Virulent Newcastle disease virus¹

USDA PLANT PROTECTION AND QUARANTINE (PPQ) SELECT AGENTS AND TOXINS

Peronosclerospora philippinensis (Peronosclerospora sacchari) Phoma glycinicola (formerly Pyrenochaeta glycines)



7th Review Conference of the Biological Weapons Convention

United Nations Office in Geneva, 5 to 22 December 2011

Treaty-relevant developments in science and technology Transparency and confidence-building measures Decision-making at annual BWC meetings Outreach and education Universality

Universality

Of the 195 states in the United Nations, the Biological Weapons Convention currently has 164 States Parties and 13 signatories.

There are 18 states which have neither signed nor ratified the Convention:

Andorra Angola Cameroon Chad Comoros Djibouti Eritrea Guinea Israel Kiribati Marshall Islands Mauritania Micronesia (Federated States of) Namibia Nauru Niue Samoa Tuvalu



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BTA Net Assessment-Technical Threat Assessment Task Areas

Acquire, Grow, Modify, Store, Stabilize, Package, Disperse

Assess criminal, terrorist, and state technical capabilities, methods, and devices for delivering BTA against U.S. targets

Assess the nature of nontraditional, novel, and nonendemic induction of disease from potential BTA

Provide high-fidelity models and simulations of disease transmission of BTA for threat assessment, countermeasure development, and emergency management

Assess and evaluate emerging technologies as they relate to BTA analysis and threat assessment

Apply Red Team operational scenarios and capabilities

Evaluate and predict U.S. vulnerabilities to foreign and domestic threats





Source: Bioweapons and Biodefense Freedom of Information Fund website, www.cbwtransparency.org/archive/

Original source: US Armed Forces Pest Management Board website, www.afpmb.org, 2004 (since removed)

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