

AD HOC GROUP OF THE STATES PARTIES
TO THE CONVENTION ON THE PROHIBITION BWC/AD HOC GROUP/WP.26
OF THE DEVELOPMENT, PRODUCTION AND 4 December 1995
STOCKPILING OF BACTERIOLOGICAL
(BIOLOGICAL) AND TOXIN WEAPONS
AND ON THEIR DESTRUCTION ORIGINAL: ENGLISH

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JAPAN WORKING PAPER

BWC DEFINITION: LIST OF BIOLOGICAL AGENTS

Introduction

The purpose of this paper is to promote discussion about the list of biological agents. Data are mainly derived from open scientific papers. Because of the different origin of each datum, there may exist some debatable content.

Terminology

Medical terms are used from original scientific papers. There are some terms which mean the almost same condition (i.e. CNS damage, encephalitis). We followed the original scientific paper.

Notes

Abbreviations are:

dysfunct.	:	dysfunction
encephal.	:	encephalitis
parapreg.	:	paraplegia
convuls.	:	convulsions
serolog.	:	serological
splenomeg.	:	splenomegaly
myocard.	:	myocardium
septicem.	:	septicemia
mesentr.	:	mesenteric
tetracycl.	:	tetracyclin
antibioti.	:	antibiotics
streptomy.	:	streptomycin
erythromy.	:	erythromycin
rifampici.	:	rifampicin
chloramph.	:	chloramphenicol
penicilli.	:	penicillin

Characteristics of Biological Agents

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23. Omusk h		hemorrhage		rat		0.5-3%	vaccine		ELISA	
VIRUSES	weapon	toxicity	morbidity	contag.	respirat.	mortality	proph/tx	stability	detection	production
24. Oropauc		fever	13.6%	mosquito		not fatal	none		ELISA	
25. Porvo		skin blood		respiratory transfusion	+		none		ELISA	possible
26. Powasssa		CNS	rare	milk tick						possible
27. Rift va	+	encephal. liver		mosquito aerosol	+	14%	vaccine		ELISA	
28. Rocio	+	CNS	38 /1000	mosquito bird		15-20%	no vaccine			possible
29. Sabia							none			
30. St.Loui	+	CNS	1-800 /100000	mosquito		5-30%	no vaccine		ELISA	possible
31. Tick-bo		CNS	5-20 /100000	tick		20%	vaccine	pH resist	ELISA	possible
32. Variola	+	systemic	25-40%	skin inhalation oral	+	5-8% Tx 1%	vaccine	stable		
33. Venezue	+	encephal.	90-100%	mosquito bird		20%	vaccine	60°C 30m	ELISA	possible
34. Ves sto		Influenza like		arthropod	+	0%		60°C 30m	ELISA serolog.	possible
35. Ves exa		enteritis								
36. West en	+	fever convuls.	36 /100000	mosquito bird		7-20%	vaccine			
37. Yellow	+	fever liver		mosquito		30-50%	vaccine		ELISA	possible

BACTERIA	weapon	toxicity	mobidity	contag.	respirat.	mortality	proph/tx	stability	detection	production
1. Baci ant	+	splenomeg CNS.,GI		skin oral	+	5-100%	penicillin	100°C 30m	serolog. stain culture	possible
2. Brucella	+	fever arthritis		skin inhalation	+		tetracycline		serolog. culture.	possible
3. Chla psi		fever pneumonia		bird	+	20%	tetracyclin	60°C 10m	serolog.	possible
4. Clos bot	+	paralysis		oral		7.5%	toxoid	spore	serolog.	possible
5. Clos per	+	enteritis gangrene		oral contact		15-60%	antibiotic		culture stain	possible
6. Clos tet	+	nervous system	90-100%	skin		30-60%	toxoid penicillin	spore	serolog.	possible
7. Cory dip	+	paralysis myocard		ingestion inhalation	+		vaccine antibiotic	58°C 10m water 10d	bacteria. stain	possible
8. Ente esc		enteritis					antibiotic			

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9. Fran tul	+	fever pneumonia	90-100%	contact oral	+	5-8% Tx 1%	streptomy vaccine	56°C 10m	serolog.	possible
10. Legi pn		pneumonia	0.1-4%	inhalation	+	10%	erythromy	long in water	serolog.	possible
11. Lept in		fever kidney liver		contact		5-30%	doxycyclin penicillin		serolog.	possible
12. Mycob t	+	tuber-culosis		oral inhalation	+		BCG rifampicin	60°C 30m strong	tuberculin culture	possible
13. Mycopm		pneumonia	rare		+		tetracycline	long in water	culture serolog.	possible
14. Noca as		abcess CNS		inhalation ingestion	+	50%	sulfamide		culture stain	possible
15. Psue ma	+	abcess		skin inhalation	+	-100%	sulfamide	42°C (-)	culture	possible
16. Pseu ps	+	septicem.		skin inhalation	+		tetracycline		serolog.	possible
17. Salm ty	+	fever		oral		10%	chloramph vaccine		culture	possible
18. Salm sp	+	enteritis fever		oral		rare	chloramph vaccine	60°C 10-20m	culture	possible
19. Shig.dy	+	diarrhea fever		fly oral		10% Tx 0.5%	antibiotic	60°C 30m	culture	possible
20. Vibr ch	+	diarrhea	1:400	fly oral		10-30% Tx 5-30%	chloramph	55°C 30m	culture	possible
21. Yer pes	+	lung ymph		skin flea	+	30-100%	tetracylin vaccine	55°C 30m	culture	possible
22. Yer pt		mesentr. adonitis	rare	oral			penicillin		culture	possible

RICKETT-SIA	weapon	toxicity	morbidity	contag.	respirat.	mortality	proph/tx	stability	detection	production
1. Coxi bur	+	fever pneumonia	1-10%	tick sheep ox.skin	+	<1%	vaccine tetracycline		serolog. ELISA	possible
2. Ric moo		fever		flea	+	<5%	antibiotic		serolog.	
3. Ric pro	+	fever CNS		louce inhalation	+	10-40% TX<5%	vaccine chrolamph		culture	possible
4. Ric qui		fever		louce	+?	rare	tetracyclin		serolog. ELISA	possible
5. Ric ric	+	fever CNS		tick louce skin		10%-90% TX<1%	vaccine tetracyclin		serolog.	possible
6. Ric spp							tetracyclin		serolog.	possible
7. Ric tsu		fever CNS		chiggar		less than 1%	antibiotic		serolog. ELISA	possible

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FUNGI	weapon	toxicity	morbidity	contag.	respirat.	mortality	proph/tx	stability	detection	production
1. Cocc im	+	pneumonia		inhalation	-	1%	amphot B		serolog. culture	possible
2. Hist ca	+	pneumonia		inhalation	+		amphot B		serolog. culture	possible