

**References Section for 2012 Revision of National Response Team (NRT) Quick Reference Guides (QRGs)
for Bacterial Biological Warfare Agents
2012 Revision**

The following references are not intended to be an exhaustive list or critical review of the literature. Instead, it is intended to provide sources that support the statements and provide potential added relevant detail pertaining to the section topic and agent specified. The reader will recognize that the literature sometimes represents multiple opinions, as frequently is the case in scientific literature, to alert the reader to the range of opinions available on the topic. Often this range is a result of the original literature being intended for an equally broad range of purposes. The reader should note that the QRGs represent a Subject Matter Expert consensus of these opinions, focused on the specific purpose of the QRG, which is to inform Federal OSCs of important information about the agents that may be useful to their activities during their first 24-48 hours on site. After this initial period, it is thought that additional resources and subject matter experts will be available to the OSCs.

<u>Reference Documents</u>	<u>Anthrax</u>	<u>B. anthracis PPE Wash Water</u>	<u>Brucella</u>	<u>Glanders & Melioidosis</u>	<u>Plague</u>	<u>Q Fever</u>	<u>Tularemia</u>
Background							
Brazis A.R., J.E. Leslie, P.W. Kabler, and R.L. Woodward. 1958. The inactivation of spores of <i>Bacillus globigi</i> and <i>Bacillus anthracis</i> by free available chlorine. <i>Appl Microbiol.</i> 6:338-342		✓					
Sivaganesan, M., N.J. Adcock, and E.W. Rice. 2006. Inactivation of <i>Bacillus globigii</i> by chlorination: A Bayesian model. <i>J. Water Supply: Res. Technol.- Aqua</i> 55.1: 33-43.		✓					
Rice, E.W., N.J. Adcock, M. Sivaganesan, and L.J. Rose. 2005. Inactivation of <i>Bacillus anthracis</i> Sterne, <i>Bacillus cereus</i> , and <i>Bacillus thuringiensis</i> subsp. <i>israelensis</i> by chlorination. <i>Appl. Environ. Microbiol.</i> 71: 5587-5589.		✓					
Rose, L.J., E.W. Rice, B. Jensen, R. Murga, A. Peterson, R.M. Donlan and M.J. Arduino. 2005. Chlorine inactivation of bacterial bioterrorism agents. <i>Appl. Environ. Microbiol.</i> 71: 566-568.		✓					
Agents and Characteristics							
Control of Communicable Diseases Manual, Am. Public Health Assoc., 17 th ed. 2000, Washington, DC	✓		✓	✓	✓	✓	✓
USAMRIID's Medical Management of Biological Casualties, U.S. Army Medical Research Institute of Infectious Diseases 5 th ed. 2004, Frederick, Maryland	✓		✓	✓	✓	✓	✓
Microbial Survival in the Environment. E. Mitscherlich and E.H. Marth. Springer-Verlag, 1984, Berlin, Heidelberg, New York, Tokyo	✓		✓	✓	✓	✓	✓
Sinclair, R. et al. 2008. Persistence of category A select agents in the environment. <i>Applied and Environmental Microbiology</i> 74:555-563.	✓		✓	✓	✓		✓
CDC Brucella			✓				
Rotz, L.D. et al. 2002. Public health assessment of potential biological terrorism agent. <i>Emerg. Infect. Dis.</i> 8:225-230.	✓		✓	✓	✓	✓	✓
CDC Glanders				✓			
CDC Yersinia					✓		
Biin Saeed, S. et al. 2005. Plague from eating raw camel liver. <i>Emerg. Infect. Dis.</i> 11:1456-1457.					✓		
CDC Coxiella						✓	
Maurin, M. and D. Raoult. 1999. Q fever. <i>Clinical Microbial. Rev.</i> 12:518-553.						✓	
Kim, S. G. et al. 2005. <i>Coxiella burnetii</i> in bulk tank milk samples, United States. <i>Emerg Infect Dis</i> 11: 619.						✓	
CIDRAP Francisella							✓
Release Scenario							
USAMRIID's Medical Management of Biological Casualties, U.S. Army Medical Research Institute of Infectious Diseases 5 th ed. 2004, Frederick, Maryland	✓		✓	✓	✓	✓	✓
Inglis, T.J.J. and J-Luis Sagripanti. 2006. Environmental factors that affect the survival and persistence of <i>Burkholdaria pseudomallei</i> . <i>Appl. Environ. Microbiol.</i> 72:6865-6875.				✓			
Rose, L.J. et al. 2003. Survival of <i>Yersinia pestis</i> on environmental surfaces. <i>Appl. Environ. Microbiol.</i> 154:2865-2871.					✓		
Torosian, S.D. et al. 2009. Detection of <i>Yersinia pestis</i> over time in seeded bottled water samples by cultivation on heart infusion agar. <i>Can/ J. Microbiol.</i> 55:1125-1129.					✓		
Wimsatt, J. and D.E. Biggins. 2009. A review of plague persistence with special emphasis on fleas. <i>J. Vector Borne Dis.</i> 46:85-99.					✓		

<u>Reference Documents</u>	<u>Anthrax</u>	<u>B. anthracis PPE Wash Water</u>	<u>Brucella</u>	<u>Glanders & Melioidosis</u>	<u>Plague</u>	<u>Q Fever</u>	<u>Tularemia</u>
Health Effects and Personnel Safety							
Control of Communicable Diseases Manual, Am. Public Health Assoc., 17 th ed. 2000, Washington, DC	✓		✓	✓	✓	✓	✓
USAMRIID's Medical Management of Biological Casualties, U.S. Army Medical Research Institute of Infectious Diseases 5 th ed. 2004, Frederick, Maryland	✓		✓	✓	✓	✓	✓
Univ. Pitts. Med. Ctr.: Plague					✓		
Effect Levels							
Hornick, R.B., A.T. Dawkins, H.T. Eigelsbach, and J.J. Tulis. 1966. Oral tularemia vaccine in man. Antimicrob. Agents Chemother. 6: 11-14.							✓
Saslaw, S., H.T. Eigelsbach, H.E. Wilson, J.A. Prior, and S. Carhart. 1961. Tularemia vaccine study. I. Intracutaneous challenge. Arch. Intern.Med.107: 689--701.							✓
Saslaw, S., H.T. Eigelsbach, J.A. Prior, H.E. Wilson, and S. Carhart. 1961. Tularemia vaccine study. II. Respiratory challenge. Arch. Intern. Med. 107: 702-714.							✓
Center for Biosecurity of UPMC - Plague					✓		
Center for Biosecurity of UPMC - Anthrax	✓						
Arizona Department of Health Services - Brucellosis			✓				
CDC – National Center for Zoonotic, Vector-borne, and Enteric Diseases - Brucellosis			✓				
Center for Biosecurity of UPMC – Glanders & Melioidosis				✓			
CDC - Melioidosis				✓			
CDC – Q fever						✓	
Jones, R.M., M. Nicas, A.E. Hubbard, and A.L. Reingold. 2006. The infectious dose of <i>Coxiella burnetii</i> (Q fever). Appl. Biosafety 11:32-41						✓	
Field Detection							
Ryan, J.R. and J.F. Glarum. 2008. Biosecurity and Bioterrorism: Containing and Preventing Biological Threats. Butterworth Heinemann Homeland Security Series. Elsevier, Burlington, MA.	✓		✓	✓	✓		✓
Sampling							
Brown, G. S. et al. 2007. "Evaluation of vacuum filter sock surface sample collection method for <i>Bacillus</i> spores from porous and non-porous surfaces." J. Environ. Monit. 9: 666-671.	✓						
Estill, C. F. et al. 200)."Recovery efficiency and limit of detection of aerosolized <i>Bacillus anthracis</i> Sterne from environmental surface samples" Appl. Environ. Microbiol. 75: 4297-4306.	✓						
Hodges, L. R., et al. 2006. Evaluation of a macrofoam swab protocol for the recovery of <i>Bacillus anthracis</i> spores from a steel surface. Appl. Environ. Microbiol. 72: 4429-4430.	✓						
Laboratory Analysis							
CDC: Sentinel Level Clinical Microbiology Laboratory Guidelines for Suspected Agents of Bioterrorism and Emerging Infectious Diseases – <i>Bacillus anthracis</i>	✓						
CDC: Sentinel Level Clinical Microbiology Laboratory Guidelines for Suspected Agents of Bioterrorism and Emerging Infectious Diseases – <i>Brucella</i> species			✓				
CDC: Sentinel Level Clinical Microbiology Laboratory Guidelines for Suspected Agents of Bioterrorism and Emerging Infectious Diseases – <i>Burkholderia mallei</i> and <i>B. pseudomallei</i>				✓			
CDC: Sentinel Level Clinical Microbiology Laboratory Guidelines for Suspected Agents of Bioterrorism and Emerging Infectious Diseases – <i>Yersinia pestis</i>					✓		
CDC: Sentinel Level Clinical Microbiology Laboratory Guidelines for Suspected Agents of Bioterrorism and Emerging Infectious Diseases – <i>Coxiella burnetii</i>						✓	
CDC: Sentinel Level Clinical Microbiology Laboratory Guidelines for Suspected Agents of Bioterrorism and Emerging Infectious Diseases – <i>Francisella tularensis</i>							✓
Decontamination and Cleanup							
Dychdala, G. 1983. Chlorine and chlorine compounds. <u>Disinfection, Sterilization and Preservation</u> . S. S. Block, Philadelphia, Lea and Febiger: 157-182.	✓		✓	✓	✓		✓
Favero, M. S. and M.J. Arduino. 2006. Decontamination and disinfection. <u>Biological Safety: Principals and Practices</u> . D. O. Fleming,	✓		✓	✓	✓		✓

<u>Reference Documents</u>	<u>Anthrax</u>	<u>B. anthracis PPE Wash Water</u>	<u>Brucella</u>	<u>Glanders & Melioidosis</u>	<u>Plaque</u>	<u>Q Fever</u>	<u>Tularemia</u>
Hunt, D.L. Washington, D.C., American Society for Microbiology: 373-381.							
Rastogi, V. K. et al. 2010. Systematic evaluation of the efficacy of chlorine dioxide in decontamination of building interior surfaces contaminated with anthrax spores. Appl. Environ. Microbiol. 76: 3343-3351.	✓						
Rogers, J.V. et al. 2005. Decontamination assessment of <i>Bacillus anthracis</i> , <i>Bacillus subtilis</i> , and <i>Geobacillus stearothermophilus</i> on indoor surfaces using a hydrogen peroxide gas generator. J. Appl. Microbiol. 99:739-748.	✓						
Rogers, J. V. et al. 2007. Formaldehyde gas inactivation of <i>Bacillus anthracis</i> , <i>Bacillus subtilis</i> , and <i>Geobacillus stearothermophilus</i> spores on indoor surface materials. J. Appl. Microbiol. 103: 1104-1112.	✓						
Wood, J. P. and G. Blair Martin. 2009. Development and field testing of a mobile chlorine dioxide generation system for the decontamination of buildings contaminated with <i>Bacillus anthracis</i> . J Hazard Mater 164:1460-1467.	✓						
Wood, J. P. et al. 2008. Pilot scale experimental and theoretical investigations into the thermal destruction of a <i>Bacillus anthracis</i> surrogate embedded in building decontamination residue bundles. Environ. Sci. Technol. 42: 5712-5717.	✓						
Enright, J. B. et al. (1957). "Pasteurization of milk containing the organism of Q fever." Am. J. Public Health Nations Health 47:695-700.						✓	
Scott, G. H. et al. 1989. Inactivation of <i>Coxiella burnetii</i> by gamma irradiation. J. Gen. Microbiol. 135:3263-3270.						✓	
Scott, G. H. and J. C. Williams. 1990. Susceptibility of <i>Coxiella burnetii</i> to chemical disinfectants. Ann. N.Y. Acad. Sci. 590:291-296.						✓	
Brazis A.R., J.E. Leslie, P.W. Kabler, and R.L. Woodward. 1958. The inactivation of spores of <i>Bacillus globigi</i> and <i>Bacillus anthracis</i> by free available chlorine. Appl Microbiol.6:338-342		✓					
Sivaganesan, M., N.J. Adcock, and E.W. Rice. 2006. Inactivation of <i>Bacillus globigii</i> by chlorination: A Bayesian model. J. Water Supply: Res. Technol.- Aqua 55.1: 33-43.		✓					
Rice, E.W., N.J. Adcock, M. Sivaganesan, and L.J. Rose. 2005. Inactivation of <i>Bacillus anthracis</i> Sterne, <i>Bacillus cereus</i> , and <i>Bacillus thuringiensis</i> subsp. <i>israelensis</i> by chlorination. Appl. Environ. Microbiol. 71: 5587-5589.		✓					
Rose, L.J., E.W. Rice, B. Jensen, R. Murga, A. Peterson, R.M. Donlan and M.J. Arduino. 2005. Chlorine inactivation of bacterial bioterrorism agents. Appl. Environ. Microbiol. 71: 566-568.		✓					
Waste Disposal							
See citations in section	○		○	○	○	○	○
Brazis A.R., J.E. Leslie, P.W. Kabler, and R.L. Woodward. 1958. The inactivation of spores of <i>Bacillus globigi</i> and <i>Bacillus anthracis</i> by free available chlorine. Appl Microbiol.6:338-342		✓					
Sivaganesan, M., N.J. Adcock, and E.W. Rice. 2006. Inactivation of <i>Bacillus globigii</i> by chlorination: A Bayesian model. J. Water Supply: Res. Technol.- Aqua 55.1: 33-43.		✓					
Rice, E.W., N.J. Adcock, M. Sivaganesan, and L.J. Rose. 2005. Inactivation of <i>Bacillus anthracis</i> Sterne, <i>Bacillus cereus</i> , and <i>Bacillus thuringiensis</i> subsp. <i>israelensis</i> by chlorination. Appl. Environ. Microbiol. 71: 5587-5589.		✓					
Rose, L.J., E.W. Rice, B. Jensen, R. Murga, A. Peterson, R.M. Donlan and M.J. Arduino. 2005. Chlorine inactivation of bacterial bioterrorism agents. Appl. Environ. Microbiol. 71: 566-568.		✓					

Key: In the reference table, “✓” means the data can be found directly in the citation. “○” means that the data in the citation refers to a different agent but, through best professional judgement, can be applied to the agent listed.