

## Thinking Ahead of the World Cup: Select Cat A Bioterror Agents (Anthrax, Botulism, Plague, Smallpox, Tularemia)

### Emory University Resources:

- Session Resources
  - Post session resources (podcast of webinar, presentation slides, responses to unanswered questions) can be found on our website
    - <https://scdp.emory.edu/programs/echo-program/resources.html>
- Region 4 Situation Report
  - <https://scdp.emory.edu/programs/echo-program/situation-report.html>
- Register for upcoming sessions on our website
  - <https://scdp.emory.edu/programs/echo-program/echo-sessions.html>
- Region IV Concept of Operations (CONOPS) - Regional Partners and Contacts
  - <https://netec.org/about-netec/partners-regional-contacts/#regional-contacts>
- NETEC
  - <https://netec.org/>
- NETEC – National Special Pathogens System of Care (NSPS)
  - <https://netec.org/nsps/>

### General External Resources:

Disclaimer - Our program provides additional resources that may be of use to our session attendees. This list is not inclusive, nor does our program endorse specific organizations.

- Healthmap.org (Location based alerts)
- Center for Infectious Disease Research and Policy (CIDRAP), University of Minnesota (UNM)
- The University of Nebraska Medical Center (UNMC) - Global Center for Health Security: The Transmission
- Global Biodefense
- CDC – Division of High-Consequence Pathogens and Pathology
- Georgia Department of Public Health – Travel Clinical Assistant (TCA)
  - <https://dph.georgia.gov/TravelClinicalAssistant>
- ProMED – International Society for Infectious Diseases

Please continue to check your local and state public health websites for additional resources and guidance.

### Session Resources:

- Mehrotra P, Mathew T, Trulik KG, et al. Sports fever! Getting the ball rolling to prevent infections at the World Cup™ and beyond. *Antimicrobial Stewardship & Healthcare Epidemiology*. 2026;6(1):e61. doi:10.1017/ash.2026.10319
  - <https://www.cambridge.org/core/services/aop-cambridge-core/content/view/DA92F515F40CE1C201E7D89456850DED/S2732494X26103192a.pdf/sports-fever-getting-the-ball-rolling-to-prevent-infections-at-the-world-cuptm-and-beyond.pdf>.
  
- Ciprofloxacin or Doxycycline for the Management of Anthrax: A Review of the Clinical and Cost-Effectiveness
  - [https://www.cda-amc.ca/sites/default/files/pdf/htis/nov-2012/RC0404\\_RR\\_RiB\\_Anthrax\\_e.pdf](https://www.cda-amc.ca/sites/default/files/pdf/htis/nov-2012/RC0404_RR_RiB_Anthrax_e.pdf)
  
- CDC Guidelines for the Prevention and Treatment of Anthrax, 2023
  - <https://www.cdc.gov/mmwr/volumes/72/rr/rr7206a1.htm>
  
- CDC/USDA - Select Agents and Toxins List
  - <https://www.selectagents.gov/sat/list.htm>
  
- U.S. Department of Labor, Occupational Safety and Health Administration: Anthrax
  - <https://www.osha.gov/anthrax/control-prevention#:~:text=In%20instances%20where%20a%20healthcare,technology%20vendors%20to%20provide%20information.>
  
- Traeger MS, Wiersma ST, Rosenstein NE, Malecki JM, Shepard CW, Raghunathan PL, Pillai SP, Popovic T, Quinn CP, Meyer RF, Zaki SR, Kumar S, Bruce SM, Sejvar JJ, Dull PM, Tierney BC, Jones JD, Perkins BA; Florida Investigation Team. First case of bioterrorism-related inhalational anthrax in the United States, Palm Beach County, Florida, 2001. *Emerg Infect Dis*. 2002 Oct;8(10):1029-34. doi: 10.3201/eid0810.020354. PMID: 12396910; PMCID: PMC2730309.
  - <https://pmc.ncbi.nlm.nih.gov/articles/PMC2730309/>
  
- Joint Trauma System Clinical Practice Guideline
  - [https://jts.health.mil/assets/docs/cpgs/CBRN\\_Part\\_4\\_General\\_Approach\\_to\\_Biological\\_Casualties\\_27\\_Feb\\_2025\\_ID101.pdf](https://jts.health.mil/assets/docs/cpgs/CBRN_Part_4_General_Approach_to_Biological_Casualties_27_Feb_2025_ID101.pdf)
  
- USAMRIIDs Medical Management of Biological Casualties Handbook – 9<sup>th</sup> Edition
  - [https://usamriid.health.mil/assets/docs/training/USAMRIIDs\\_Blue\\_Book\\_9th\\_edition\\_PDF\\_format.pdf](https://usamriid.health.mil/assets/docs/training/USAMRIIDs_Blue_Book_9th_edition_PDF_format.pdf)

- US Food and Drug Administration - Amoxicillin Use by Pregnant and Lactating Women Exposed to Anthrax
  - <https://www.fda.gov/drugs/bioterrorism-and-drug-preparedness/amoxicillin-use-pregnant-and-lactating-women-exposed-anthrax#:~:text=Amoxicillin%20does%20not%20have%20an,mg%20amoxicillin%20every%20eight%20hours>

### Responses to Unanswered Questions:

1. Are there any opportunities for involvement or volunteering with the World Cup Emergency Management?
  - Working at your facility to implement the triple I paradigm - identify, isolate, and inform - is a great way to enhance preparedness at your facility.
2. When talking about antibiotics to use say for post exposure, what about vulnerable populations- kids <8 years and pregnant women- where doxy is not ideal to use, what do you recommend using? Would you ever recommend Amoxicillin over some of the other agents given the safety record of Amox in these populations?
  - Amoxicillin can be used as an alternative to doxy.
3. Smallpox, do we have an idea whether persons previously vaccinated for smallpox years ago have a level of immunity?
  - While the responses are different in different people, most people who were vaccinated against smallpox as a child have detected immunity in their blood for decades, even as long as 70 years later.
  - Also, we know that repeat vaccination with currently available smallpox/mpox vaccines boosts this immunity.
  - <https://pmc.ncbi.nlm.nih.gov/articles/PMC2610468/>
4. Based on the data from the 2022 mpox outbreak, is the assumption that tecovirimat (tpox) is also ineffective in smallpox cases?
  - Tecovirimat (TPOXX) is still the only FDA-approved antiviral medication for the treatment of smallpox infections. Since there have not been any cases of smallpox in decades, it has not been tested in human cases of smallpox. At the same time, we do not have data indicating that it would be ineffective. While smallpox virus and Mpox virus are similar, their effects on the body and how they work in humans are different enough that we could not reliably assume the lack of benefit of TPOXX in Mpox would translate to smallpox.
5. Can you repeat the mnemonic about doxy & cipro?
  - A anthrax

- P plague
  - T Tularemia
  - APT by rose and Bruno mars - grammmy nominee
  - Rx - aminoglycoside, Quinolones and doxy
6. Something I've been thinking about in the event of an attack, especially an aerosolization that contaminates the environment, is what do we tell people to do in regards to their pets? Pets can pick up spores on fur or be infected by themselves. And in some cases infect the people around them. While the SNS focus is on humans, I know people will also want to know what to do with their animals.
- Here is a useful CDC resource:
    - i. <https://www.cdc.gov/chemical-emergencies/pets/response.html>
7. Any wastewater surveillance for these agents?
- Here are some useful resources:
    - <https://dph.georgia.gov/epidemiology/acute-disease-epidemiology/georgia-national-wastewater-surveillance-system-ga-nwss>
    - <https://www.wastewaterscan.org/en>