Special Considerations for Prophylaxis for and Treatment of Anthrax in Pregnant and Postpartum Women

Technical Appendix

Technical Appendix Table 1. Oral Antimicrobial Post-Exposure Prophylaxis for infection with Bacillus anthracis*

Technical Appendix Table 1. Oral Antimicrobial Fost Exposure Frophylaxis for infection with Bacillas antimacis		
a. For all strains, regardless of penicillin susceptibility or if susceptibility is unknown		
Non-pregnant Adults:	Modifications for Pregnant Women:	
ciprofloxacin 500 mg every 12H	ciprofloxacin is preferred	
OR	no change in dosing	
doxycycline 100 mg every 12H		
OR		
levofloxacin 750 mg every 24H		
OR		
moxifloxacin 400 mg every 24H		
OR		
clindamycin† 600 mg every 8H		
OR		
b. Alternatives for penicillin-susceptible strains		
amoxicillin 1 g every 8H		
OR		
penicillin VK 500 mg every 6H		
Duration of Post-Exposure Prophylaxis for Bacillus anthracis:	no change in duration	
60 d		

^{*}Boldface indicates preferred agent. Alternative selections are listed in order of preference for treatment for patients who cannot take first-line treatment, or if first-line treatment is unavailable.

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Technical Appendix Table 2. Intravenous Antimicrobial Treatment for Systemic Anthrax with Possible/Confirmed Meningitis*

Nonpregnant Adults:	Modifications for pregnant Women:
Nonpregnant Addits. A Bactericidal Agent (Fluoroquinolone)	Modifications for pregnant women.
ciprofloxacin 400 mg every 8H	ciprofloxacin is preferred
, , , , , , , , , , , , , , , , , , , ,	cipronoxacim is preferred
OR	
levofloxacin 750 mg every 24H	
OR	
moxifloxacin 400 mg every 24H	
PLUS	
2. A Bactericidal Agent (β-lactam)	
a. For all strains, regardless of penicillin susceptibility or if	
susceptibility is unknown	at locat one ontihictic with
meropenem 2 g every 8H	at least one antibiotic with
OR	transplacental passage
imipenem† 1 g every 6H	is recommended; ciprofloxacin,
OR	levofloxacin, meropenem, ampicillin,
doripenem 500 mg every 8H	penicillin, clindamycin, rifampin
OR	
b. Alternatives for penicillin-susceptible strains	
penicillin G 4 million units every 4H	
OR	
ampicillin 3 g every 6H	
PLUS	
3. A Protein Synthesis Inhibitor	
linezolid‡ 600 mg every 12H	
OR	
clindamycin 900 mg every 8H	
OR	
rifampin§ 600 mg every 12H	
OR	
chloramphenicol¶ 1 g every 6–8 H	
Duration of treatment: for ≥2–3 weeks until clinical criteria for stability	No change in duration
are met. Patients exposed to aerosolized spores will require prophylaxis	
to complete an antimicrobial drug course of 60 d from onset of illness	
(see Technical Appendix Table 1).	
*Systemic anthrax includes anthrax meningitis; inhalation, injection, gastrointestinal	

extensive edema, or lesions of the head or neck. Boldface indicates preferred agent. Alternative selections are listed in order of preference for treatment for patients who cannot take first-line treatment, or if first-line treatment is unavailable.

[†] Increased risk of seizures associated with imipenem/cilastatin treatment †Linezolid should be used with caution in patients with thrombocytopenia, as it may exacerbate it. Linezolid use for >14 d carries additional risk for hematopoietic toxicity.

[§]Rifampin is not a protein synthesis inhibitor; however, it may be used in combination with other antimicrobials based on its in vitro synergy.

 $[\]P$ Should only be used if other options are not available, due to toxicity concerns.

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Technical Appendix Table 3. Intravenous Antimicrobial Treatment for Systemic Anthrax When Meningitis Has Been Excluded*

New years and adults	
Non-pregnant adults	Modifications for pregnant Women:
1. A Bactericidal Antimicrobial	
a. For all strains, regardless of penicillin susceptibility or if	
susceptibility is unknown	
ciprofloxacin 400 mg every 8H	ciprofloxacin is preferred
OR	
levofloxacin 750 mg every 24H	
OR	
moxifloxacin 400 mg every 24H	
OR	
meropenem 2 g every 8H	
OR	at least one antibiotic with
imipenem† 1 g every 6H	transplacental passage
OR	is recommended; ciprofloxacin,
doripenem 500 mg every 8H	levofloxacin, meropenem, ampicillin,
OR	penicillin, clindamycin, rifampin
vancomycin 60 mg/kg/day IV divided every 8 h	
(maintain serum trough concentrations of 15 – 20 μg/mL)	
OR	
b. Alternatives for penicillin-susceptible strains	
penicillin G 4 million units every 4H	
OR	
ampicillin 3 g every 6H	
PLUS	
2. A Protein Synthesis Inhibitor	
clindamycin 900 mg every 8H	
OR	
linezolid‡ 600 mg every 12H	
OR	
doxycycline§ 200 mg initially,	
then 100 mg every 12H	
OR YOUR ADDRESS ADDRES	
rifampin¶ 600 mg every 12H	
Duration of treatment: for ≥2 weeks until clinical criteria for stability	No change in duration
are met. Patients exposed to aerosolized spores will require	
prophylaxis to complete an antimicrobial drug course of 60 d from	
onset of illness (see Technical Appendix Table 1). *Systemic anthrax includes anthrax meningitis: inhalation, injection, gastrointesting	
To systemic animax inclines anthrax meninditis, inhalation, injection, dastrointesting	iai aniniax: and cutaneous anthrax with systemic involvement

^{*}Systemic anthrax includes anthrax meningitis; inhalation, injection, gastrointestinal anthrax; and cutaneous anthrax with systemic involvement, extensive edema, or lesions of the head or neck. Boldface indicates preferred agent. Alternative selections are listed in order of preference for treatment for patients who cannot take first-line treatment, or if first-line treatment is unavailable. †Increased risk of seizures associated with imipenem/cilastatin treatment

[‡]Linezolid should be used with caution in patients with thrombocytopenia, as it may exacerbate it. Linezolid use for >14 d carries additional risk for hematopoietic toxicity. §A single 10–14 course of doxycycline is not routinely associated with tooth-staining.

Rifampin is not a protein synthesis inhibitor; however, it may be used in combination with other antimicrobials based on its in vitro synergy.

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Technical Appendix Table 4. Oral Antimicrobial Treatment for Cutaneous Anthrax without Systemic Involvement*

Non-pregnant adults a. For all strains, regardless of penicillin susceptibility or if susceptibility is unknown	Modifications for pregnant women
ciprofloxacin 500 mg every 12H	ciprofloxacin is preferred
OR doxycycline 100 mg every 12H	
OR levofloxacin 750 mg every 24H	
OR moxifloxacin 400 mg every 24H	
OR	
clindamycin† 600 mg every 8H	
OR	
b. Alternatives for penicillin-susceptible strains	
amoxicillin 1 g every 8H	
OR	
penicillin VK 500 mg every 6H	
Duration of Treatment:	No change on duration
*Recommendations are appoint to autonogue anthrox in the patting of histographic	

^{*}Recommendations are specific to cutaneous anthrax in the setting of bioterrorism. **Boldface** indicates preferred agent. Alternative selections are listed in order of preference for treatment for patients who cannot take first-line treatment, or if first-line treatment is unavailable.. †Based on in vitro susceptibility data, rather than studies of clinical efficacy.

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