Treatment of Biological Agent Exposure

AGENT	CLINICAL SIGNS AND SYMPTOMS	TREATMENT	OTHER	SECON TRANSM
Anthrax (spore)	Fever, malaise, non- productive cough, pro- gressing to dypsnea, stridor, shock. Incubation 1-6 days.	Prophylaxis/treatment: ciprofloxin, doxycycline, PCN licensed vaccine. IV therapy: ciprofloxin doxycycline, PCN licensed vaccine.	High mortality (>90%) even with treatment.	None except a body fluids.
Pneumonic Plague (bacteria)	High fever, chills, headache, hemophysis, toxemia, dyspnea, stridor, bleeding diathesis. Incubation 2-3 days.	Prophylaxis/treatment: vaccine, doxycycline, TMP/sulfamethoxazole. IV therapy: streptomycin (>1 yo), gentamicin, chloramphenicol.	Antibiotic treatment effective if begun early.	Strict isolation Isolation mand least the first treatment.
Tularemia (bacteria)	Regional lymphademepathy, fever, chills, headache, malaise, cutaneous ulcers. Incubation 2-10 days.	Streptomycin, gentamicin. Adult prophylaxis: doxycycline.	Low mortality (about 5%).	Rare, body flu tions only.
Q Fever (bacteria)	Fever, cough, pleuritic chest pain. Incubation 10+ days.	Tetracycline, doxycycline.	Low mortality.	Does not requ precautions.
Smallpox (virus)	Malaise, fever, rigors, vomiting, headache, backache; 2-3 days later lesions appear and quickly progress from macules to papules to pustular	Supportive — vaccine available from CDC. Immune globulin may be available from CDC. No antiviral medication available.	Supposed to be extinct (doubtful).	Highly contagi

Ribaviron, supportive care.

Ribaviron, intensive care,

(Argentine HF), vaccine

convalescent plasma

(vellow fever), blood

replacement products

Several antitoxins are

available and effective if

administered early. CDC

vaccine good only for A

Supportive — oxygenation

and hydration. No antitoxin

Supportive — oxygenation

and hydration. Ventilator

support may be required.

or vaccine available.

for DIC.

and B.

Isolate patients in single

room with an adjoining

anteroom stocked with PPE. Negative air pressure

Decontaminate with

hypochlorite or phenolic

Disinfect with hypochlorite

Disinfect with hypochlorite

and/or soap and water.

mechanical ventilation.

and/or soap and water.

Disinfect with hypochlo-

rite. Most victims recover.

Supportive long-term

if possible.

disinfectants.

vesicles. Incubation 16-17

Supportive. No antiviral

Fever, malaise, myalgias,

Ptosis, weakness, dizzi-

ness, dry mouth, blurred

vision, diplopia, descend-

ing paralysis. Incubation

Weakness, fever, cough,

Fever, headache, chills,

Incubation 3-12 hours.

myalgias, cough, nausea,

Source: Robert Suter, DO, MHA, FACEP, Questcare Emergency Services, Plano, TX.

pulmonary edema, incuba-

headache, vomiting, diarrhea, easy bleeding,

petechiae, shock.

24-36 hours.

tion 18-24 hours.

vomiting, diarrhea.

medication exists.

days.

Viral Equine Encephalitis

Viral Hemorrhagic Fevers

Botulism (toxin)

Ricin (toxin)

Staphylococcal

Enterotoxin B (toxin)

CLINICAL CICNE

ACENIT

SECONDARY MISSION aerosolized

n needed. ndatory for at 48 hours of

uid precau-

uire universal

gious.

Body fluids. Otherwise infectious by vector (mosquitoes).

Transmitted by bodily fluids. Strict barrier-

nursing techniques. Limit

increase risk for secondary

None. Derived from caster

patient transfers: may

transmission.

None.

beans.

Use PPE.