PENNSYLVANIA DEPARTMENT OF HEALTH 2024- PAHAN - 747-05-01-ADV



Adverse Effects Linked to Counterfeit or Mishandled Botulinum Toxin Injections

DATE:	May 1, 2024
TO:	Health Alert Network
FROM:	Debra L. Bogen, M.D., FAAP, Acting Secretary of Health
SUBJECT:	Adverse Effects Linked to Counterfeit or Mishandled Botulinum
	Toxin Injections
DISTRIBUTION:	Statewide
LOCATION:	N/A
STREET ADDRESS:	N/A
COUNTY:	N/A
MUNICIPALITY:	N/A
ZIP CODE:	N/A

This transmission is a "Health Advisory" which provides important information for a specific incident or situation; may not require immediate action.

HOSPITALS: PLEASE SHARE WITH ALL MEDICAL, PEDIATRIC, NURSING AND LABORATORY STAFF IN YOUR HOSPITAL; EMS COUNCILS: PLEASE DISTRIBUTE AS APPROPRIATE; FQHCs: PLEASE DISTRIBUTE AS APPROPRIATE LOCAL HEALTH JURISDICTIONS: PLEASE DISTRIBUTE AS APPROPRIATE; PROFESSIONAL ORGANIZATIONS: PLEASE DISTRIBUTE TO YOUR MEMBERSHIP; LONG-TERM CARE FACILITIES: PLEASE SHARE WITH ALL MEDICAL, INFECTION CONTROL, AND NURSING STAFF IN YOUR FACILITY

Summary

- On April 23, 2024, the CDC released a Health Advisory about people experiencing adverse effects after receiving botulinum toxin injections.
- Twenty-two people in 11 U.S. states reported adverse effects, including hospitalization, after receiving injections with counterfeit botulinum toxin or injections administered by unlicensed or untrained individuals or in non-healthcare settings, such as homes or spas.
- Clinicians and health departments should consider the possibility of adverse effects from botulinum toxin injections in patients presenting with localized paralysis.
- At this time, no such patients experiencing such adverse effects after receiving botulinum toxin injections have been reported to DOH.
- Clinicians should immediately contact DOH (1-877-PA-HEALTH or 1-877-724-3258) or their local health department if they suspect botulism.

The Pennsylvania Department of Health (DOH) is releasing the following information provided by the Centers for Disease Control and Prevention (CDC)

(<u>https://emergency.cdc.gov/han/2024/pdf/CDC_HAN_507.pdf</u>) to alert clinicians about risks of counterfeit or mishandled botulinum toxin injections.

Adverse Effects Linked to Counterfeit or Mishandled Botulinum Toxin Injections

Summary

The CDC is issuing this Health Alert Network (HAN) Health Advisory to alert clinicians about risks of counterfeit or mishandled botulinum toxin injections. CDC, the U.S. Food and Drug Administration (FDA), and state and local partners are investigating clusters of 22 people in 11 U.S. states reporting adverse effects after receiving injections with counterfeit botulinum toxin or injections administered by unlicensed or untrained individuals or in non-healthcare settings, such as homes or spas. Eleven patients were hospitalized, and none have died. When botulinum toxin diffuses around the injection site, it can result in adverse effects. Botulism is the disease caused by botulinum toxin circulating in the blood and producing effects remotely from the injection site. There may be symptom overlap between the presentation of localized adverse effects from injection of botulinum toxin, especially in the head and neck, and the early symptoms of botulism. Information about the botulinum toxin injection (e.g., dose) can help distinguish between botulism and localized adverse effects but is challenging to obtain for counterfeit products. Clinicians and health departments should consider the possibility of adverse effects from botulinum toxin injections in patients presenting with localized paralysis. Clinicians should immediately contact their state, tribal, local, or territorial health department if they suspect botulism.

Background

Botulism is a rare and sometimes fatal illness caused by botulinum toxin. Initial botulism symptoms may include double or blurred vision, drooping eyelids, slurred speech, difficulty swallowing, and difficulty breathing. These symptoms may be followed by a descending, symmetric muscle weakness that progresses over hours to days. Administration of botulism antitoxin can neutralize toxin circulating in the blood; therefore, treating botulism patients with botulism antitoxin early in the course of disease can prevent the progression of paralysis and consequent complications. Administration of antitoxin is not indicated for local effects of low-dose injections of botulinum toxin preparations, because the low doses of injected toxin are not likely to reach circulation or produce botulism with its life-threatening manifestations.

Some localized paralytic effects, resulting from diffusion of the toxin around the injection site, are expected from botulinum toxin administration. Most individuals with localized symptoms (e.g., dysphagia after injection to the neck) following low-dose cosmetic or therapeutic injections using FDA-approved products will not require treatment with botulism antitoxin. latrogenic botulism can occur after cosmetic or therapeutic injections of botulinum toxin when the toxin circulates in the blood and produces effects remotely from the injection site. latrogenic botulism is rare; the most recent laboratory-confirmed domestic case occurred in 2017.

As of April 18, 2024, 22 people with adverse effects have been reported in California, Colorado, Florida, Illinois, Kentucky, Nebraska, New Jersey, New York City, Tennessee, Texas, and Washington. Symptom onset dates ranged from November 4, 2023, to March 31, 2024. All symptomatic people were females aged 25 to 59 years. All reported receiving botulinum toxin injections by unlicensed or untrained individuals or in non-healthcare settings, including homes or spas. Most (20, 91%) reported receiving botulinum toxin injections for cosmetic purposes. Among all 22 people, symptoms began a median of 3 days after exposure (range 0 to 20 days) and included symptoms near the injection site (e.g., blurred vision and ptosis after facial injection), dry mouth, slurred speech, shortness of breath, fatigue, and generalized weakness. Of 20 people with information available, 11 (55%) symptomatic people were hospitalized. Six of the 22 symptomatic people received botulism antitoxin to treat suspected botulism. Seven symptomatic people underwent botulinum toxin testing to determine if they had circulating

botulinum toxin, which would support a diagnosis of botulism; results were negative for six symptomatic people and are pending for one symptomatic person. Negative results do not rule out botulism as levels of toxin in serum may have fallen below the limit of detection of laboratory tests. None of the 22 symptomatic people met the <u>case definition for botulism</u>, and none have died.

These adverse events have been linked to improper procurement and administration of botulinum toxin. Botulinum toxin should be administered only by licensed providers, using only recommended doses of FDA-approved botulinum toxin, preferably in a licensed or accredited healthcare setting. Providers should be trained in the proper administration of botulinum toxin, practicing in accordance with state and local requirements.

More information about the counterfeit products may be found on FDA's website.

Recommendations for Clinicians

Diagnosis, consultation, and treatment

- Consider the possibility of adverse effects from botulinum toxin injections, including those
 given for cosmetic reasons, in patients presenting with localized paralysis near the injection
 site.
 - o Ask patients about history of botulinum toxin injections, including the dose.
- Be aware of symptom overlap between the presentation of localized adverse effects from injection of botulinum toxin and the early symptoms of botulism. To help distinguish early botulism symptoms from localized adverse effects:
 - Assess for symmetry of cranial nerve palsies; symmetric cranial nerve palsies are expected with botulism.
 - Assess for progression of cranial nerve palsies, possibly followed by a descending symmetric flaccid paralysis. These should raise suspicion for botulism.
- If botulism is suspected, call DOH at 1-877-PA-HEALTH or your local health department immediately for consultation.
- If public health consultation supports botulism, DOH will work with the provider to request antitoxin and begin treatment as soon as it is available. **Do not wait for laboratory confirmation to begin treatment**.

Clinician reporting

- A suspected case of botulism is a clinical and public health emergency. Suspected botulism cases should be reported immediately to DOH at 1-877-PA-HEALTH or your local health department.
- Report adverse events related to the use of any medications, including suspected counterfeit medications, to FDA's MedWatch Safety Information and Adverse Event Reporting Program.

Counseling patients

- Counsel patients who report using or being interested in using botulinum toxin about potential adverse effects.
- Advise patients to receive injections only from licensed providers who are trained in proper administration of FDA-approved botulinum toxin products, preferably in a licensed or accredited healthcare setting.

Recommendations for Laboratories

- Diagnostic testing for suspected botulism may be done through DOH Bureau of Labs only after clinical consultation with DOH and after antitoxin has been requested from CDC.
- Laboratory confirmation of botulism is done by demonstrating the presence of botulinum toxin in serum through either mouse bioassay or mass spectrometry.

Recommendations for the Public

- Get injections only from licensed and trained professionals in licensed or accredited healthcare settings.
- If you are concerned that you or someone you know might have <u>symptoms of botulism</u>, including trouble swallowing or breathing, see your doctor or go **immediately** to the emergency room. **Do not wait.**
- Report suspected counterfeit botulinum toxin products to FDA at 800-551-3989 or through FDA's form for reporting suspected criminal activity.
- Report harmful reactions related to the use of any medications, including suspected counterfeit medications, to FDA's <u>MedWatch Safety Information and Adverse Event Reporting Program</u>.

For More Information

- <u>CDC: Harmful Reactions Linked to Counterfeit "Botox" or Mishandled Botulinum Toxin</u> Injections
- FDA: Counterfeit Version of Botox Found in Multiple States
- Information for Health Professionals on Botulism | CDC
- About Botulism | CDC
- Preventing Botulism | CDC
- Injection Safety | CDC

References

- Halai U, Terashita D, Kim M, et al. Notes from the Field: Intestinal Colonization and Possible latrogenic Botulism in Mouse Bioassay-Negative Serum Specimens — Los Angeles County, California, November 2017. MMWR Morb Mortal Wkly Rep. 2018;67(43):1221–1222. doi:10.15585/mmwr.mm6743a6
- Rao AK, Sobel J, Chatham-Stephens K, Luquez C. Clinical Guidelines for Diagnosis and Treatment of Botulism, 2021. MMWR Recomm Rep. 2021;70(No. RR-2):1– 30. doi:10.15585/mmwr.rr7002a1
- Rao AK, Lin NH, Jackson KA, Mody RK, Griffin PM. Clinical Characteristics and Ancillary Test Results Among Patients With Botulism — United States, 2002–2015. Clin Infect Dis. 2018;66(suppl_1):S4–S10. doi:10.1093/cid/cix935

Providers should immediately contact DOH at 1-877-PA-HEALTH or their local health department if they suspect paralysis due to botulism. This same number can be used to ask additional questions.

Individuals interested in receiving future PA-HAN communiqués can register at: https://ondemand.mir3.com/han-pa-gov/login/.

Categories of Health Alert messages:

Health Alert: conveys the highest level of importance; warrants immediate action or attention.

Health Advisory: provides important information for a specific incident or situation; may not require immediate action.

Health Update: provides updated information regarding an incident or situation; unlikely to require immediate action.

This information is current as of May 1, 2024 but may be modified in the future. We will continue to post updated information regarding the most common questions about this subject.