



Statement of Disclosures

- Learners will gain knowledge of infection control principles to systematically assess that his/her facility has the appropriate infection prevention policies, procedures, and practices in place to allow healthcare personnel to provide safe patient care consistent with North Carolina communicable disease rule 10A NCAC 41A .0206: Infection Prevention – Healthcare Facilities.
- All participants must attend all 7 presentations and complete the on-line course evaluation to receive their course completion certificate and continuing education credit.
- The content of this activity has no connection with any products consumed by or used on patients, so there is no conflict of interest for anyone with the ability to control the content of this activity.



Activity Approval Statement

- The University of North Carolina Adams School of Dentistry is an ADA CERP Recognized Provider. UNC CDE's term of Recognition is November 1, 2023, through December 31, 2027. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. Concerns or complaints about a CE provider may be directed to the provider or to ADA CERP at www.ada.org/cerp.
- This electronically mediated activity has been planned and implemented in accordance with the standards of the ADA Continuing Education Recognition Program (ADA CERP) through joint efforts between The University of North Carolina Adams School of Dentistry and the NC Statewide Program for Infection Control and Epidemiology (SPICE). All participants assume individual responsibility for providing evidence of contact hours of continuing education to the appropriate authorities and for maintenance for their individual records. The UNC Adams School of Dentistry can only confirm registration for the course. Keep this form for your records.



Activity Approval Statement (continued)

- Make copies as needed. Members of the Academy of General Dentistry are responsible for reporting their attendance to the Academy at the following address: Academy of General Dentistry, 560 W. Lake St, Sixth Floor, Chicago, IL 60661-6600.

Cancellation

Registration can be canceled up to 7 days from the date of registration for a full refund, if the first module has not been completed. After the first module is completed, no refunds will be granted.



Criteria for Awarding Contact Hours

- Learners must attend the entire educational activity
- Learners must complete the evaluation form

Criteria for Awarding Contact Hours

- Learners will be asked to select a presentation/module where they gained knowledge
- Using an open-ended response option, learners will list practice(s) related to infection prevention that they intend to change because of knowledge gained during the activity and state how they will implement that change
- Learners must complete the course within 90 days.



Conflict of Interest

In accordance with the ADA CERP Standard V., everyone involved in planning or presenting this educational activity will be required to disclose any relevant financial relationships with commercial interests and this information will be made available to participants at the start of the course.

As a continuing education provider, UNC Adams School of Dentistry is responsible for ensuring the content, quality and scientific integrity of all continuing dental education activities for which credit is provided. The School is also responsible for taking steps to protect against and/or disclose any conflict of interest of the faculty/instructors presenting those courses.

No relevant financial relationship were identified for any individuals with the ability to control content of the activity

The following Planners/Authors stated they have no financial relationship or commercial interest to disclose:

Evelyn Cook, RN

Jennifer Hubbard, MHA

No UNC CDE staff member or CDE Advisory Committee member have any financial relationships to disclose.



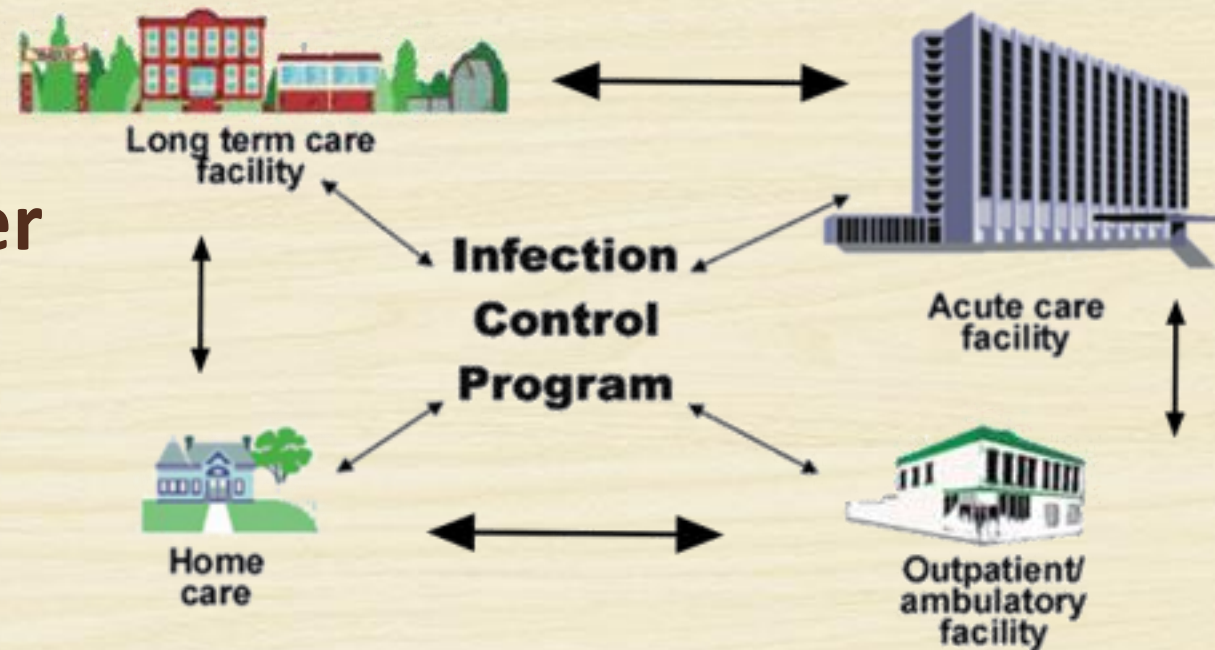
Mission

The Statewide Program for Infection Control and Epidemiology promotes prevention and control of healthcare-associated infections in North Carolina and beyond by providing evidence-based education and consultation across the healthcare spectrum.



Course Theme

“Patients deserve effective infection Prevention wherever they receive healthcare.”



Adapted from: Jarvis WR Emerg Infect Dis. 2001;7:170-3. Macedo de Olivera et al. Annals of Int Med. 2005, 11



Modules



A

- **Module A** - North Carolina Laws Concerning Infection Prevention
- **Module B** - Complying with OSHA Bloodborne Pathogen



B



C

- **Module C** - Epidemiology and Risk of Infection

- **Module D** - Outbreak and Safe Injection Practices



D



E

- **Module E** - Principles and Practices of Asepsis

- **Module F** - Principles of Disinfection and Sterilization



F



G

- **Module G** – Application of Cleaning, Disinfection and Sterilization Principals in Hemodialysis Settings



Module A

NC Laws Concerning Infection Prevention in Dental Settings

MODULE A



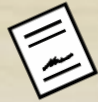


Objectives

10 A NCAC 41A

.0206

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.0214



- Describe North Carolina State Laws governing infection prevention in healthcare facilities
- Discuss Control Measures for Human Immunodeficiency Virus (HIV), hepatitis B and hepatitis C

GS 130A-135

10A NCAC 41A

- Review Communicable Disease Reporting



15A NCAC

13B .1200

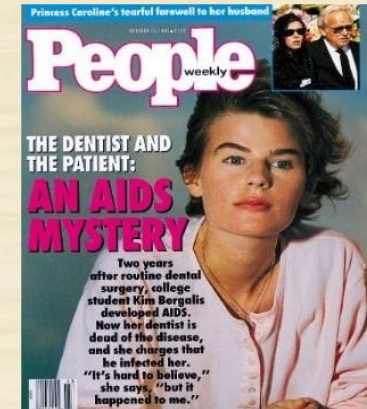
- Describe NC Medical waste rules.



History



- 1990 – CDC becomes aware of a possible transmission of HIV from a dentist to 6 patients (Kimberly Bergalis case)
- July 1991 – CDC publishes *Recommendations for Preventing Transmission of HIV and hepatitis B Virus to Patients During Exposure-Prone Invasive Procedures*
- October 1991 – Congress passes Public Law 102-141, requiring states to adopt CDC Guidelines or equivalent guidelines drafted by the state
- July 6th, 2012 – CDC Updated Recommendations for Management of Hepatitis B Virus-Infected Health-Care Providers and Students





History



HIV and hepatitis B Infected HCP



- All healthcare providers who perform or assist in:
 - Surgical OR
 - Obstetrical OR
 - Dental procedures
- And who know themselves to be infected with HIV or Hepatitis B shall notify the NC State Health Director
- No requirement to notify employer



History



HIV and hepatitis B Infected HCP

Once notification occurs:

Health Director is responsible to:

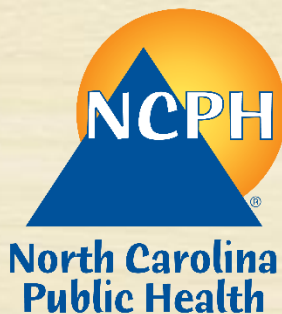
- Investigate provider's practice
- Evaluate clinical condition
- Determine risk of transmission to patients
- Convene expert panel

Expert Panel shall:

- Review evidence
- Hear testimony from provider and/or their physician
- Make recommendations related to restrictions and identification of potentially exposed patients



History 10A NCAC 41A .0206



10A NCAC 41A.0206 Infection Prevention- Healthcare Settings

10A NCAC 41A .0206 INFECTION PREVENTION – HEALTH CARE SETTINGS

(a) The following definitions apply throughout this Rule:

- (1) "Health care organization" means a hospital; clinic; physician, dentist, podiatrist, optometrist, or chiropractic office; home care agency; nursing home; local health department; community health center; mental health facility; hospice; ambulatory surgical facility; urgent care center; emergency room; Emergency Medical Service (EMS) agency; pharmacies where a health practitioner offers clinical services; or any other organization that provides clinical care.
- (2) "Invasive procedure" means entry into tissues, cavities, or organs or repair of traumatic injuries. The term includes the use of needles to puncture skin, vaginal and cesarean deliveries, surgery, and dental procedures during which bleeding occurs or the potential for bleeding exists.
- (3) "Non-contiguous" means not physically connected.

(b) In order to prevent transmission of HIV, hepatitis B, hepatitis C and other bloodborne pathogens each health care organization that performs invasive procedures shall implement a written infection control policy. The health care organization shall ensure that health care workers in its employ or who have staff privileges are trained in the principles of infection control and the practices required by the policy; require and monitor compliance with the policy; and update the policy as needed to prevent transmission of HIV, hepatitis B, hepatitis C and other bloodborne pathogens. The health care organization shall designate one on-site staff member for each noncontiguous facility to direct these activities. The designated staff member in each health care facility shall complete a course in infection control approved by the Department. The Department shall approve a course that addresses:

- (1) Epidemiologic principles of infectious disease;
- (2) Principles and practice of asepsis;
- (3) Sterilization, disinfection, and sanitation;
- (4) Universal blood and body fluid precautions;
- (5) Safe injection practices;
- (6) Engineering controls to reduce the risk of sharp injuries;
- (7) Disposal of sharps; and
- (8) Techniques that reduce the risk of sharp injuries to health care workers.

(c) The infection control policy required by this Rule shall address the following components that are necessary to prevent transmission of HIV, hepatitis B, hepatitis C and other bloodborne pathogens:

- (1) Sterilization and disinfection, including a schedule for maintenance and microbiologic monitoring of equipment; the policy shall require documentation of maintenance and monitoring;
- (2) Sanitation of rooms and equipment, including cleaning procedures, agents, and schedules;
- (3) Accessibility of infection control devices and supplies; and
- (4) Procedures to be followed in implementing 10A NCAC 41A .0202(4) and .0203(b)(4) when a health care provider or a patient has an exposure to blood or other body fluids of another person in a manner that poses a significant risk of transmission of HIV or hepatitis B.

(d) Health care workers and emergency responders shall, with all patients, follow Centers for Disease Control and Prevention Guidelines on blood and body fluid precautions incorporated by reference in 10A NCAC 41A .0201.

(e) Health care workers who have exudative lesions or weeping dermatitis shall refrain from handling patient care equipment and devices used in performing invasive procedures and from all direct patient care that involves the potential for contact of the patient, equipment, or devices with the lesion or dermatitis until the condition resolves.

(f) All equipment used to puncture skin, mucous membranes, or other tissues in medical, dental, or other settings must be disposed of in accordance with 15A NCAC 13B .1200 after use or sterilized prior to reuse.

History Note: Authority G.S. 130A-144; 130A-145; 130A-147;
Eff. October 1, 1992;
Amended Eff. January 1, 2010; December 1, 2003; July 1, 1994; January 4, 1994.



History



Each **healthcare organization** in which **invasive procedures** are performed must:



- Implement a **written infection control policy** addressing components necessary to prevent transmission of HIV, hepatitis B, hepatitis C and other bloodborne pathogens



- **Designate one on-site staff member** to direct infection control activities



Dr. Zack Moore

State Epidemiologist

Chief of the Epidemiology Section
North Carolina Division of Public Health





Definitions



“Healthcare organization“ means:

- Hospital
- Clinic
- Physician Practice
- Dentist
- Podiatrist
- Optometrist, or
- Chiropractic office
- Home care agency
- Nursing Home
- Local health department
- Community health center
- Mental health facility
- Hospice
- Ambulatory surgical facility
- Urgent care center
- Emergency room
- Emergency medical service (EMS) agency
- Pharmacies where a health practitioner offers clinical services

Or any other organization that provides clinical care



Definitions



“Invasive procedure” means entry into tissues, cavities or organs or repair of traumatic injuries.

This includes:

- Use of needles to puncture skin
- Vaginal and cesarean deliveries
- Surgery
- Dental procedures during which bleeding occurs or the potential for bleeding exists





Infection Control Policy



Infection control policy must include and address the following components necessary to prevent transmission of HIV, hepatitis B, hepatitis C and other bloodborne pathogens:

- Disinfection and Sterilization
- Maintenance and microbiologic monitoring of equipment
- Sanitation of rooms and equipment
 - Cleaning procedures, agents used and schedules
- Accessibility of infection control devices and supplies
 - Personal protective equipment (PPE), safety sharps, etc.
- A post-exposure follow-up program





Designated Staff Member



Designated staff member must complete a State approved course in infection prevention

- Course curriculum developed by SPICE
- SPICE has oversight of course
- Course faculty must submit an application and be approved by SPICE prior to offering the course
- On the job training is not sufficient and “Train the Trainer” concept cannot be used
- Upon completion of course will receive a certificate of completion
 - Serves as documentation of compliance with rule .0206





Approved Course Must Include:

- Epidemiologic principles of infectious disease
- Principles and practice of asepsis
- Sterilization, disinfection, and sanitation
- Universal blood and body fluid precautions (Standard Precautions)
- Safe injection practices
- Engineering controls to reduce the risk of sharp injuries
- Disposal of sharps
- Techniques that reduce the risk of sharp injuries to health care workers



10A NCAC 41A .0206: 2010 Amendment

- Safe Injection Practices has been added to list of topics covered in state-approved course
- Hepatitis C and other bloodborne pathogens are addressed, in addition to HIV and HBV
- One designated trained staff member is required for each **noncontiguous healthcare facility**
 - **Noncontiguous: when facilities are not physically connected to each other.**
- OSHA bloodborne pathogen training, alone, does not include all of the elements required under .0206



.0206 Legal Requirements



Healthcare providers with exudative lesions or dermatitis on hands/wrists shall refrain from:

- Handling patient care equipment
- Handling devices used for invasive procedures
- All direct care activities likely to have contact with lesion



Knowledge Check

Which of the following are included in the definition of “invasive procedure” under .0206?

- A. Surgery
- B. Vaginal deliveries
- C. Dental procedures
- D. Giving an allergy shot
- ✓ E. All of the Above



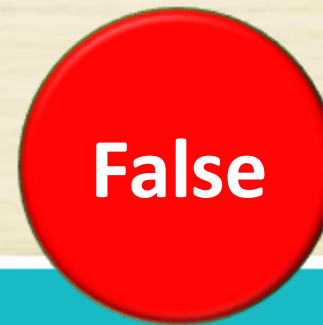
Knowledge Check

True or False?

Rule .0206 requires all the following for healthcare organizations:

Have a written infection control policy

- Conduct infection control training for healthcare providers
- Have at least one person designated to have oversight of infection control
- Designated person must attend a state-approved course
- Compliance with infection control requirements must be monitored



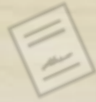


Objectives

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- Describe North Carolina State Laws governing infection prevention in healthcare facilities
- Discuss Control Measures for Human Immunodeficiency Virus (HIV), hepatitis B and hepatitis C

GS 130A-135

10A NCAC 41A

- Review Communicable Disease Reporting



15A NCAC

13B .1200

- Describe NC Medical waste rules.

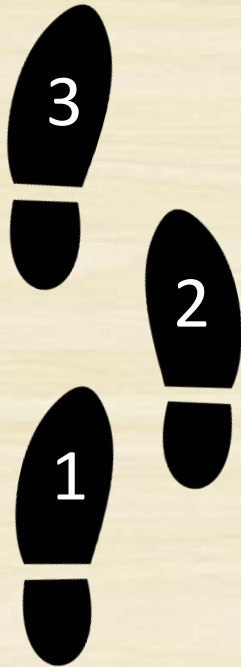




Control Measures HIV, HBV, HCV



10A NCAC 41A .0202, .0203, and .0214



3 Key Steps

1. Determining the risk
2. Following up on the source
3. Maintaining confidentiality



Modules



Determine if exposure to the person constitutes a significant risk

1



- Needlestick most common
- For all other exposures (splashes and splatters for example) evaluate:
 - The amount and type of body fluid
 - Potential pathogen and
 - The route of exposure (mucous membranes, non-intact skin for example)

Control Measures HIV, HBV, HCV



Follow up on the source of the exposure:

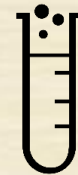
- If source is known, notify their physician, test for HIV, HBV and HCV (unless already known to be infected) and offer follow up as appropriate.



Known
Source



Notify
Physician



Test for

- HIV
- HBV
- HCV



Control Measures HIV, HBV, HCV

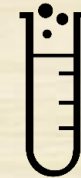


Follow up on the source of the exposure:

- If source unknown: offer HIV testing to exposed person, verify status of HBV vaccination and offer HCV testing



Unknown
Source



Offer tests

- HIV
- HCV



Verify HBV
immunization
status



Control Measures HIV, HBV, HCV



Maintain Confidentiality



- Protect confidentiality of known source person and their testing status
- Exposed person instructed to maintain confidentiality
- Disclosures for communicable disease reporting are protected and do not violate HIPAA regulations

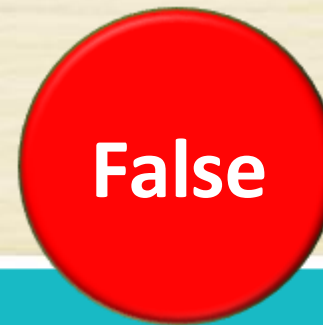




Knowledge Check

True or False:

Needlesticks are the most common route of exposure to bloodborne pathogens in the healthcare setting



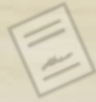


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GS 130A-135

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15A NCAC

13B .1200

- Describe NC Medical waste rules.





Reporting Rules:



GS 130A-135; 10A NCAC 41A

- “A physician licensed to practice medicine who has reason to suspect that a person about whom the physician has been consulted professionally has a communicable disease (CD) or condition declared by the Commission to be reported, shall report information required by the Commission to the local health director ...”
- Physicians, labs & specified others must report CDs designated “reportable” by NC Commission for Public Health

<https://epi.publichealth.nc.gov/cd/report.html>



CHAPTER 41 — EPIDEMIOLOGY HEALTH

SUBCHAPTER 41A — COMMUNICABLE DISEASE CONTROL

SECTION .0100 — COMMUNICABLE DISEASE CONTROL

10A NCAC 41A .0101 REPORTABLE DISEASES AND CONDITIONS

(a) The following is a list of communicable diseases and communicable conditions which shall be reported within the time period specified after the disease or condition is reasonably suspected to exist pursuant to Article 6 of Chapter 130A of the North Carolina General Statutes and this Subchapter:

- (1) acquired immune deficiency syndrome (AIDS) — 24 hours;
- (2) acute flaccid myelitis — 7 days;
- (3) anaplasmosis — 7 days;
- (4) anthrax — immediately;
- (5) arboviral infection, neuroinvasive — 7 days;
- (6) babesiosis — 7 days;
- (7) botulism — immediately;
- (8) brucellosis — 7 days;
- (9) campylobacter infection — 24 hours;
- (10) *Candida auris* — 24 hours;
- (11) Carbapenemase—producing organisms (CPO) — 24 hours;
- (12) chancroid — 24 hours;
- (13) chikungunya virus infection — 24 hours;
- (14) chlamydial infection (laboratory confirmed) — 7 days;
- (15) cholera — 24 hours;
- (16) Creutzfeldt Jakob disease — 7 days;
- (17) cronobacter infection, invasive, in individuals less than 12 months of age — 24 hours;
- (18) cryptosporidiosis — 24 hours;
- (19) cyclosporiasis — 24 hours;
- (20) dengue — 7 days;
- (21) diphtheria — 24 hours;
- (22) *Escherichia coli*, shiga toxin—producing infection — 24 hours;

Amended November 1, 2024

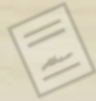


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15A NCAC

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- Describe NC Medical waste rules.





NC Medical Waste Rules



15A NCAC 13B .1200

The NC Medical Waste Rules:

- Define types of medical waste
- Outline how medical waste should be packaged
- Dictates how medical waste should be stored and transported and
- Outlines methods of treatment and disposal

Rules are periodically updated



NC Medical Waste Rules



15A NCAC 13B .1200

Currently Two Types of Medical Waste

Medical waste

- Any solid waste generated in the
 - Diagnosis
 - treatment, or
 - immunization of human beings or animals
- Disposed of in the county landfill and no treatment necessary prior to disposal





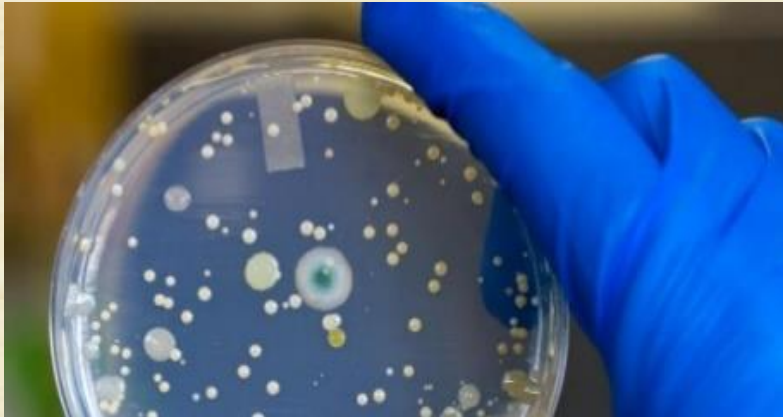
NC Medical Waste Rules



15A NCAC 13B .1200

Currently Two Types of Medical Waste

Regulated medical waste



- Must be treated prior to disposal
- Regulated medical waste and treatment methods include the following:
 - Any blood or body fluids in individual containers >20ml (about size of test tube)...incineration/sanitary sewage system/steam sterilization
 - Microbiological waste...Incineration, steam sterilization, microwave, ozonation, or chemical treatment
 - Pathological waste...incineration/ozonation



Not Defined as Regulated Medical Waste Under 15A NCAC 13B .1200:



Sharps



- Rules do not require treatment before disposal
- Must be packaged in a container that is rigid, leak-proof when upright, and puncture resistant
- Shall not be compacted prior to off-site transportation
- Can be disposed of with general solid waste
 - Some landfills do not accept sharps



Miscellaneous Items

- Dressings and bandages (even blood soaked), sponges, disposable instruments, used gloves, and tubing
 - Disposed of as general solid waste
- Household waste including injections administered at home is not included in medical waste rules





Knowledge Check

Which of the following is NOT classified as “Regulated” medical waste in the NC Medical Waste Rules?

- A. Microbiological
- ✓ B. Gowns and gloves
- C. Pathological
- D. Blood in quantities of >20 ml per a single unit vessel



Knowledge Check

What do the NC Medical Waste Rules require for disposal of sharps?

- A. Container for sharps is rigid, puncture resistant and leak proof when in an upright position.
- B. Closed sharps container may be disposed of with general solid waste.
- C. Contained sharps shall not be compacted prior to off-site transportation.
- ✓ D. All of the above



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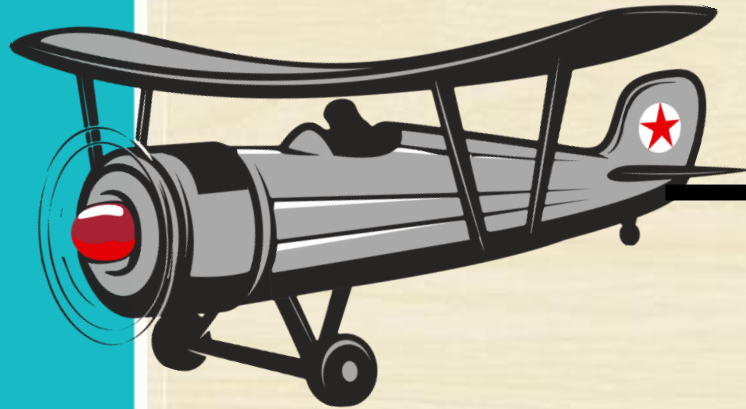


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Questions?

