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Objectives

- 1. Participants will have an understanding of the historical context of the safe injection devices
- 2. Participants will be able to identify current resources to evaluate safe injection devices
- Participants will be able to identify sources of current data that discuss the impact of safe injection devices
- 4. Participants will be able to discuss global implications of safe injection practices.

Disclaimer

• The specific mention or photograph(s) of a safety needle or sharps container or other device or product is not an endorsement of that product or company.





TOP 10 HEALTH TECHNOLOGY HAZARDS FOR 2011

Reprinted from Volume 39 Issue 11 November 2010

8. Needlesticks and other sharps injuries

www.ecri.org
HEALTH DEVICES NOVEMBER 2010

References

University of Virginia Health System:

http://healthsystem.virginia.edu/internet/epinet/home.cfm

"Tenth Anniversary of the Needlestick Safety and Prevention Act: Mapping Progress, Charting a Future Path"

> Nov. 5-6, 2010 Charlottesville, VA

Edinburgh physician Alexander Wood and Frenchman physician Charles Pravda independently pioneered the hypodermic syringe for drug administration. Dr Wood first injected a patient with morphine in 1853. He gave a description of his innovation in a paper entitled "A New Method for Treating Neuralgia by the Direct Application of Opiates to Painful Points", published in the Edinburgh Medical and Surgical Journal (1855).





The first recorded fatality from a hypodermicsyringe induced overdose was Dr Wood's wife. The tragedy arose because she was injecting morphine to excess. Later, in the American Civil War (1861-65), an estimated 400,000 soldiers became addicted to opiates after liberal use or morphine injections as well as opium pills: "The returning veteran could be...identified because he had a leather thong around his neck and a leather bag (with) Morphine Sulfate tablets, along with a syringe and a needle issued to the soldier on his discharge...This was called the "Soldier's Disease". (Gerald Starkey)



The first wave...

Development of the disposal hypodermic syringe



Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

1954 Glenn Murdoch – New Zealand Disposable Hypodermic Syringe

D'Iorio Restaurant Waterbury, Connecticut, USA (Monoject) 1957 Louie's Steakhouse Columbus, Nebraska, USA (BD)























- An accessory safety device is a safety feature that is external to the device and must be carried to or temporarily or permanently fixed to the point of use. This design also is dependent on employee compliance and according to some researchers, is not desirable.
- An **integrated safety design** means that the safety feature is built in as an integral part of the device and cannot be removed. This design feature is preferred.

Safety I.V. Set syringe disposal kit. Insert - Lock - DisposeImage: Safety I.V. Set syringe disposal kit. Insert - Lock - DisposeImage: Safety I.V. Set syringe disposal kit. Insert - Lock - DisposeImage: Safety I.V. Set syringe disposal kit. Insert - Lock - DisposeImage: Safety I.V. Set syringe disposal kit. Insert - Lock - DisposeImage: Safety I.V. Set syringe disposal kit. Insert - Lock - DisposeImage: Safety I.V. Set syringe disposal kit. Insert - Lock - DisposeImage: Safety I.V. Set syringe disposeImage: Safety I.V. Set









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Risks abound everywhere..

In preparation

- · In delivery
- · In disposal



3 Broad Categories of Safety Devices

- · IV Giving Sets
- · Injections & Blood-taking
- · Sharps disposal safety

Where to find safety products? www.premierinc.com/safetystore http://www.isips.org/the list.php

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Important Features of a Safety Device

- Minimizes Risk of BBP Exposure
- Clinically Approved
- · Clinically Accepted
- · Passive Safety
- Affordable

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EVALUATING SAFER NEEDLES A UNISON GUIDE "NEEDLE SAFETY AT WORK"

www.unison.org.uk/acrobat/B337.pdf

Training for Development of Innovative Control Technology USA

www.tdict.org



Assessment of safety needles/safe needle devices - During Use:

- 1. Safety feature can be activated using a one handed technique
- 2. Safety feature does not obstruct vision of the tip of the sharp
- 3. Use of this product requires you to use the safety feature
- 4. Product does not require more time to use than a non-safety device
- 5. Safety feature works well with a wide variety of hand sizes
- 6. Device is easy to handle while wearing gloves
- 7. Device does not interfere with uses that do not require a needle
- 8. Device offers a good view of any aspirated fluid.
- 9. Device will work with all required syringe & needle sizes

After Use

- 10. There is a clear and unmistakable change (audible or visible) that occurs when the safety feature is activated.
- 11. The safety feature operates reliably
- 12. The exposed sharp is permanently blunted or covered after use and prior to disposal
- 13. This device is no more difficult to process after use than non-safety devices

Training

14. User does not need extensive training for correct operation15. The design of the device suggests proper use16. It is not easy to skip a crucial step in the proper use of device

Of the above questions, which three are the most important to your safety when using this product?

Are there other questions that you feel should be asked regarding the safety/utility of this product?

















Boal WL, Leiss JK, Ratcliffe JM, Sousa S, Lyden JT, Li J, Jagger J. The national study to prevent blood exposure in paramedics: rates of exposure to blood. Int Arch Occup Environ Health 2010 83:191-9. Available at:http:// www.ncbi.nlm.nih.gov/pubmed/19437031?dopt=Abstract

Jagger J, Berguer R, Phillips EK, Parker G, Gomaa AE. Increase in sharps injuries in surgical settings versus non-surgical settings after passage of national needlestick legislation. Journal of the American College of Surgeons 2010 (April);210(4):496-502.





Directive must be implemented in all Member States by 11 May 2013 at the





latest

The "Safe Injection Global Network" (SIGN) was established in 1999 as a voluntary coalition of stakeholders aiming to achieve safe and appropriate use of injections throughout the world. The WHO department of Essential Health Technologies provides the secretariat for the network.

http://www.who.int/medical_devices/collaborations/network/en/

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Final Comments

- · Many products exist in the market place
- · Injuries have been reduced
- · Find the best product for the application
- Safer devices are generally more expensive than conventional devices, but the total additional cost for a facility is a small fraction of the total costs of appropriate management of occupational injuries.



30 May	(Free Teleclass – Live Broadcast from CHICA-Canada Conference) Benchmark and Performance Measurement Speakers: Zahir Hirji, Bridgepoint Hospital (Toronto) and Leslie Forrester, Vancouver Coastal Health Sponsored by GOJO (www.gojo.com)
9 June 11	Using Checklists to Prevent Healthcare Associated Infections Speaker: Prof. Peter Pronovost, Johns Hopkins University Sponsored by: Virox Technologies Inc (www.virox.com)
14 June 11	(Free Teleclass – 10 th Anniversary Lecture) Ten Years of Infection Prevention and Control: How Far Have We Come? Speaker: Prof. Syed A. Sattar, University of Ottawa Sponsored by: Virox Technologies Inc. (www.virox.com) and Diversey (www.diversey.com)
15 June 11	(South Pacific Teleclass) Pandemic, Public Health and Emergency Care: Contemporary Trends and New Challenges for Infection Control and Infectious Diseases Speaker: Prof Ramon Shabam, Griffith University, Australia