



BY ASTEK INNOVATIONS LTD

We'll keep you  
**inSafe** hands to avoid  
needlestick injuries

[www.insafedental.co.uk](http://www.insafedental.co.uk)



**inSafe** provides complete protection from the beginning of the medical procedure, through to the disposal of the needle. The specially designed syringe protects the needle at ALL times and its partnering sharps container removes the contaminated needle in complete safety!



- Needle protected by lockable sleeve.
- One-handed disposal of the contaminated needle.
- Autoclaveable syringe made from metal and plastic - feels and weighs just like a conventional syringe.
- Works with all needles.
- Choice of aspiration techniques.
- Anaesthetic cartridge changeable during procedure.
- Economical system. Minimal disposable components. Low cost per use





THE  
**DENTAL**  
**AWARDS**  
Product Innovation  
WINNER 2009

## Needlestick Injuries The Facts:

Studies report that up to 56% of dental clinicians suffer at least one needle-stick injury per year.

Felix DH et al. 1994, [www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov), Br Dent J. 1994 Mar 5;176(5):180-4.

One third of all reported sharps injuries in dental practice are due to the use of non-disposable syringes, most injuries occur during the removal and disposal of needles.

Zakrzewska JM et al. 2001, Br Dent J. 2001 Jan 27;190: 88-92.

Vast majority of injuries occur after the injection has been administered.

Safer Needles Network 2006, [www.needlestickforum.net](http://www.needlestickforum.net)

Injuries caused by needles and other sharp instruments are one of the most common and serious risks to healthcare workers, including dentists and it is estimated that over 1.2 million injuries a year are caused by needles in Europe.

The proposal for a Council Directive implementing the Framework Agreement on prevention from sharps injuries in the hospital and healthcare sector concluded by HOSPEEM and EPSU

Transmission Rates after a Needle-Stick Injury:

- HIV: 1 in 300
- Hepatitis B: 1 in 30
- Hepatitis C: 1 in 3

Safer Needles Network 2006, [www.needlestickforum.net](http://www.needlestickforum.net)

Cost of Diagnosis: £6526 (assumes no infection)

[www.jr2.ox.ac.uk/bandolier/booth/needlestick/dentlond.html](http://www.jr2.ox.ac.uk/bandolier/booth/needlestick/dentlond.html)

The costs associated with each needlestick injury can vary considerably, but are significant. For an injury resulting in transfer of a serious bloodborne virus it has been estimated that, in certain cases, the cost could be as high as EUR 1,000,000.

NHS, Scotland 2001

“ From an IC point of view we fully support the implementation of the inSafe system as it is the safest option currently on the market and will reduce risks and make CLCH CDS services fully compliant with the EU Sharps directive. ”

Johanna Hill, Senior Infection Prevention Nurse,  
Central London Community Healthcare NHS Trust



2



Screw on needle in the same way as a standard syringe. Any type or brand of needle can be used.

3



Load cartridge and syringe ready for administration of anaesthetic. Any type or brand of cartridge can be used.

6



Twist and fully insert syringe into container.

7

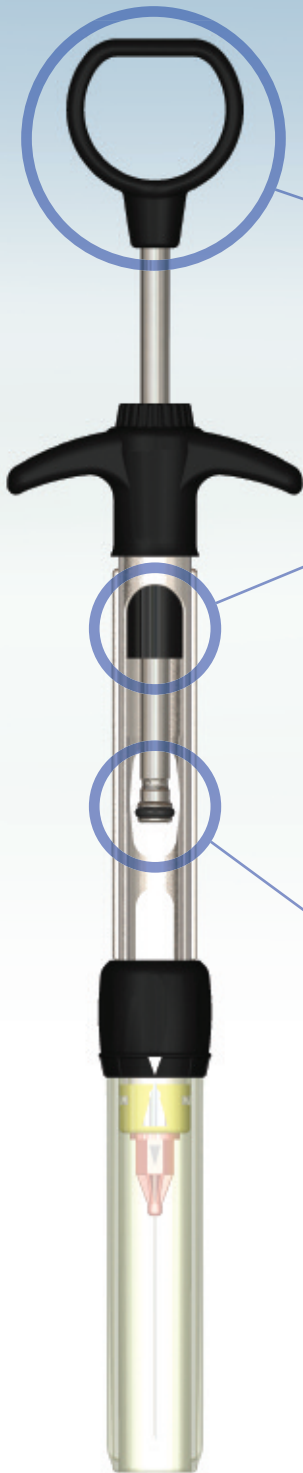


Withdraw syringe to remove and dispose of the contaminated needle without re-sheathing - Best Practice one-handed removal technique. (Container holds 150 used needles)

“ I would like to commend Astek for producing another fantastic product for the dental profession. Any device which helps protect ourselves and our staff must be considered by the clinical team. inSafe allows for the safe loading and unloading of dental syringes, thus preventing needlestick injuries. The beauty of the design is its ease of use and the protection it affords. I would highly recommend this product to any dental surgeon, as it follows both CQC and Best Practice guidelines. ”

# Syringe Version Guide

With 16 varieties, **inSafe** can be used with all types of needles,



## Handle Type



Thumb Ring Handle



T-Type Handle

## Cartridge Type



2.2ml Cartridge



1.8ml Cartridge

## Aspiration Type



O-Ring



Harpoon



3-Point Harpoon



Self Aspirating



Standard

# The EU Directive for the Prevention of Sharps Injuries in the Hospital and Healthcare Sector:

In June 2010, a new European Directive was published on sharps injuries with the aim of creating the safest possible working environment by preventing injuries to workers caused by all medical sharps, including needlesticks, and protecting workers at risk.

All EU Member states are required to bring into force national legislation or legally binding agreements to implement the Directive.

## What does the Directive say?

Risk of needlestick injury must be controlled by measures including the following:

- **Safe Procedures** - specifying and implementing safe procedures for using and disposing of sharp medical instruments and contaminated waste. **The practice of recapping shall be banned with immediate effect.** These procedures shall be regularly reassessed and shall form an integral part of the measures for the information and training of workers
- **Engineering Controls** - providing medical devices incorporating safety engineered protection mechanisms

When considering safety-engineered medical devices the following selection criteria should be applied:

- The device must not compromise patient care
- The device must perform reliably
- The safety mechanism must be an integral part of the safety device, not a separate accessory

- The device must be easy to use and require little change of technique on the part of the health professional
- The activation of the safety mechanism must be convenient and allow the care-giver to maintain appropriate control over the procedure
- The device must not create other safety hazards or sources of blood exposure
- A single-handed or automatic activation is preferable
- The activation of the safety mechanism must manifest itself by means of an audible, tactile or visual sign to the health professional
- The safety mechanisms should not be easily reversible once activated.

## What does this mean for me?

The Directives state where risk cannot be eliminated the employer shall take appropriate measures to minimise the risks. Appropriate measures to minimise the risks would include the provision by employers of safer needle devices and sharps containers.

As a minimum requirements, the Directives state: "Where there is a risk of mechanical contact with moving parts of work equipment which could lead to accidents, those parts must be provided with guards or devices to prevent access to danger zones or to halt movement of dangerous parts before danger zones are reached."

“It's the best I have ever seen, in fact in a class of its own. What stands out, in my opinion, is the quality of thought and planning in its design, from the choice of materials through to your ingenious solution to the very tricky problem of safe needle disposal.”

Dr. John Besford, 97 Harley Street, London, UK

“I have used inSafe and found it to be of great value. It is no exaggeration to say that it has revolutionised my practice of dentistry. I would encourage everyone to use this equipment as it is easy to use and removed the risk of needlestick injury.”

Professor Hugh Devlin, Restorative Dentistry, University of Manchester Dental School

“I'm a dental assistant and I want to say how much I like inSafe. Having been handling syringes and pricking myself on a number of occasions, it is lovely not to worry and to be able to handle the syringe with safety and confidence. I have no hesitation in recommending inSafe to all dentists”


Christine Wallens, Stuart Orton-Jones Dental Practice, Northampton, UK

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## ALMA

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BY ASTEK INNOVATIONS LTD

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