

# NON-CORING NEEDLES FOR ELIMINATION OF DANGEROUS CORING

## Technology Summary

FDA researchers have developed a universal, straight, non-coring puncture needle that reduces and prevents the occurrence of dangerous coring. Existing puncture needles can be prone to dangerous coring that occurs when a piece of the barrier (i.e. a disc or plug of barrier material) is released after syringe insertion. Coring can be particularly problematic if the released piece of the barrier obstructs the needle or a line connected to the needle (i.e. blood or infusion line).

The FDA developed non-coring puncture needle has a unique blade surface with two distinct regions positioned at an angle to each other. The blade surface comprises a sharp region on the tip end (less than 40% of entire blade) and a blunt region on the base end of the blade. The combination of the sharp and the blunt regions of the blade surface positioned at specific angles to each other provide optimal conditions for reducing or preventing dangerous coring.

## Potential Commercial Applications

- Can be used to create an injection port, infusion line, mixed injection tube in a blood circuit, a blood collection tube without the risk of dangerous coring

## Competitive Advantages

- Unique dual surface blade technology
- Existing puncture needles do not prevent coring
- The non-coring puncture needle reduces and prevents coring

**Development Stage:** prototype

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## Intellectual Property:

United States patent application (pending): 15/058,628, filed 03.02.2016

**Product Area:** Medical device, non-coring puncture needle

**FDA Reference No:** E-2015-011

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