

# A Novel One-handed Cannulation Device

Published date: Feb. 12, 2019

## Technology description

### Invention Summary

Intravenous cannulation is routinely performed to provide reliable central venous access for administration of medical therapy. The conventional Seldinger cannulation technique is the mainstay of central line placement, however, it can lead to complications due to multiple steps and the need of changing multiple moving parts with two hands. The most critical steps of the Seldinger technique involves the removal of the syringe while holding the needle tip in place and inserting a guide wire into the vessel via the inner bore of the needle. Dr. Ehsani-Nia at Robert Wood Johnson Medical School has designed a novel, easy-to-use intravenous cannulation device. This device contains all components required for performing the critical steps of the Seldinger technique in one unit. Most importantly, operators can perform venous access and guide wire insertion using only one hand, leaving the other hand free.

## Application area

Central vascular devices

Peripheral vascular access devices and accessories

## Advantages

Easy to use

No assembly required

One-handed operation for both venous access and guide wire insertion

## Institution

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