

3-needle design  
Accurate positioning  
Adjustable needle length



# Needle Injection Catheter

The NIC is a percutaneous catheter used to control the safe injection of liquid agents and stem cells into the myocardium.

## Technical Specifications

- Three 0.29 mm needles curved at 75°
- 1400 mm working length
- 7 Fr compatible
- Dead volume less than 0.5 ml
- Deployment in tortuous paths

## SAFETY FEATURES

### **Accurate placement**

Three injection needles curved at 75° provide stability and prevent deep puncturing of the tissue.

### **Larger treatment area**

Requires fewer injections in a shorter amount of time.

### **Controlled injection depth**

Puncture depth is controlled within the handle.

### **Metal distal tip**

Eliminates the risk of particle release in the blood.

### **Radiopaque distal tip**

Ensures visibility under fluoroscopy for proper positioning.



Undeployed Needle



Maximum deployment



Handle

NEEDLE DEPLOYMENT



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**WE SET THE PACE**

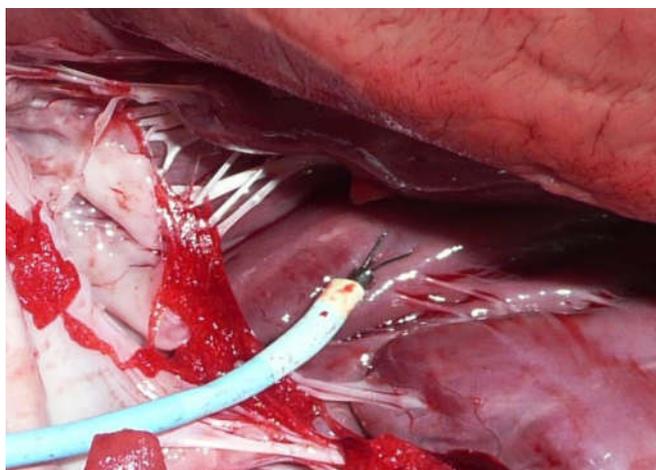
## HOW IT WORKS

The device is inserted in a 7 Fr guide catheter that navigates it to the target location. A radiopaque distal tip helps locate the NIC using fluoroscopy, enabling its proper positioning at the desired site.

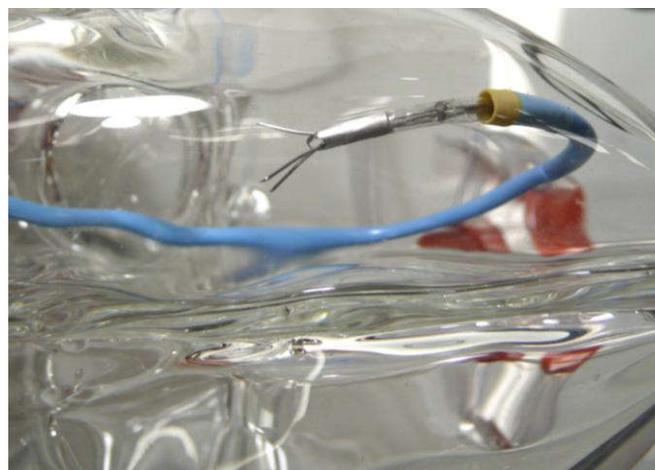
The NIC is then pushed out of the guide catheter's distal tip. A thumbwheel within the handle adjusts the needles to the appropriate length, and deploys them for insertion in the tissue. Once the needles are positioned in place, the treating

agent is steadily injected through a standard luer port on the proximal side of the handle.

A single button retracts the needles back into the distal tip to prevent vessel injuries, facilitating fast and safe injection in multiple sites across the tissue. Once the injections are complete, the NIC is retracted into the guide catheter and withdrawn from the body.



INJECTION IN MYOCARDIUM



DEPLOYMENT IN TORTUOUS PART

