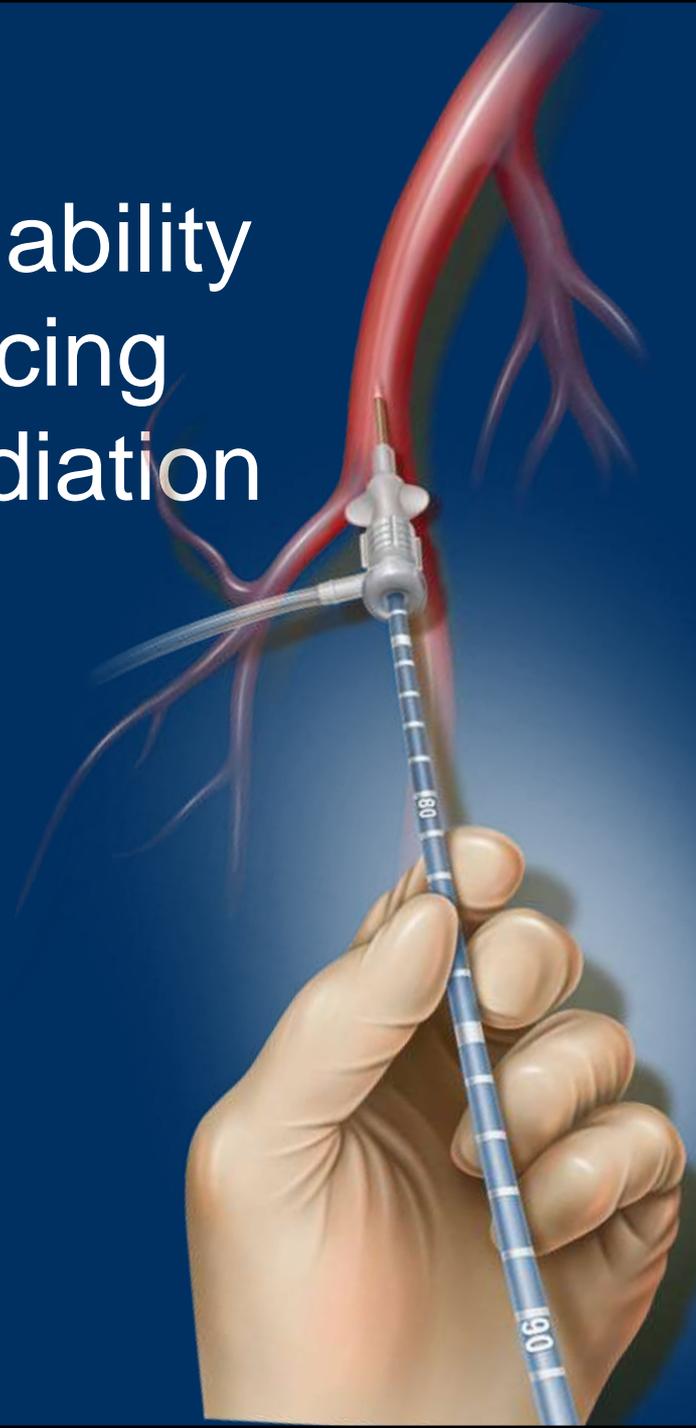




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# Optimizing lesion cross ability and accuracy by reducing fluoroscopy time and radiation exposure

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Chulalongkorn University Bangkok, Thailand





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## Disclosure

Speaker name: Pawanrat Kranokpiraksa

I have the following potential conflicts of interest to report:

- Consulting
- Employment in industry
- Stockholder of a healthcare company
- Owner of a healthcare company
- The physician has been compensated by Bard Peripheral Vascular, Inc. to participate in this presentation.
  
- I do not have any potential conflict of interest

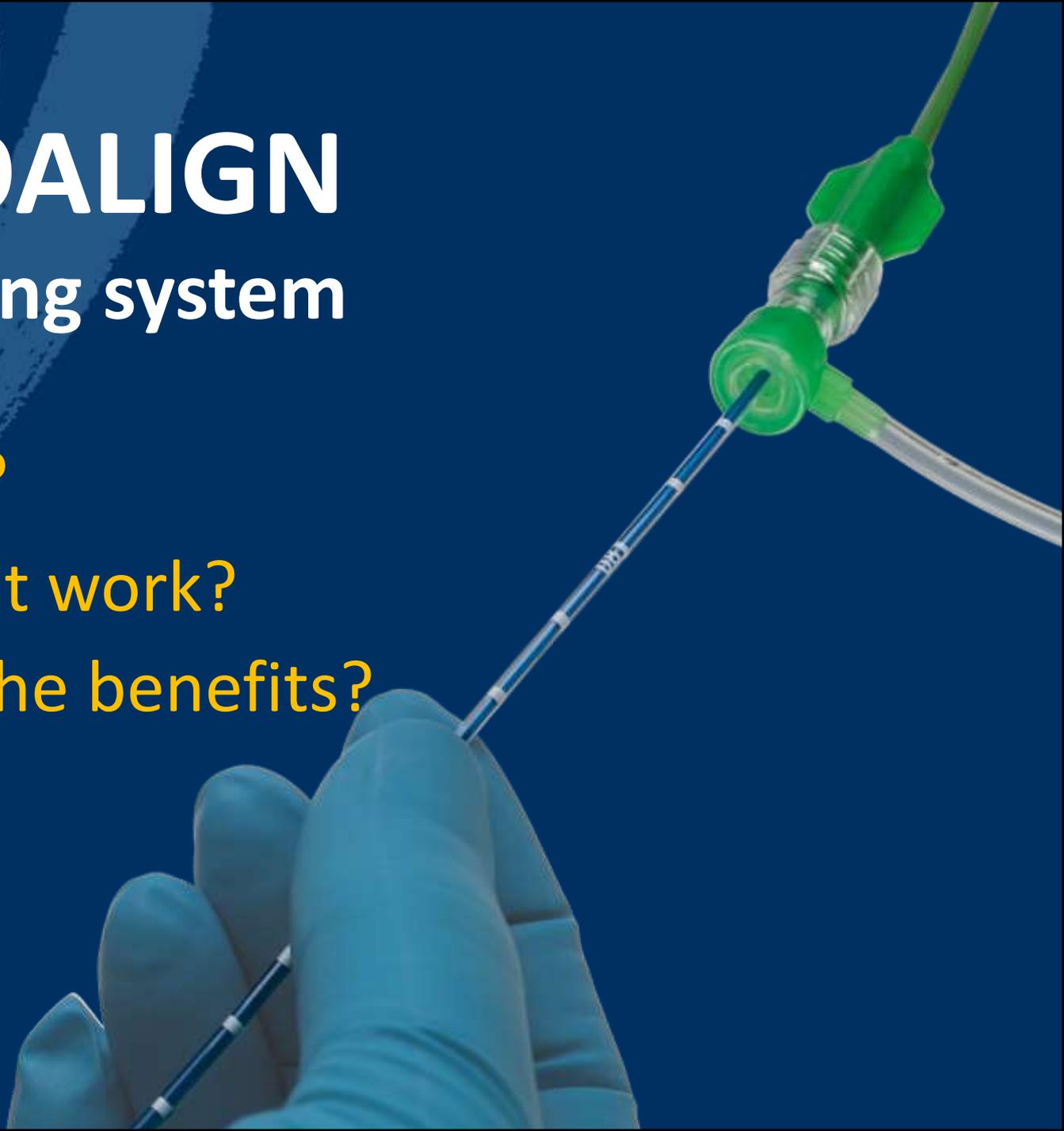


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# GEOALIGN

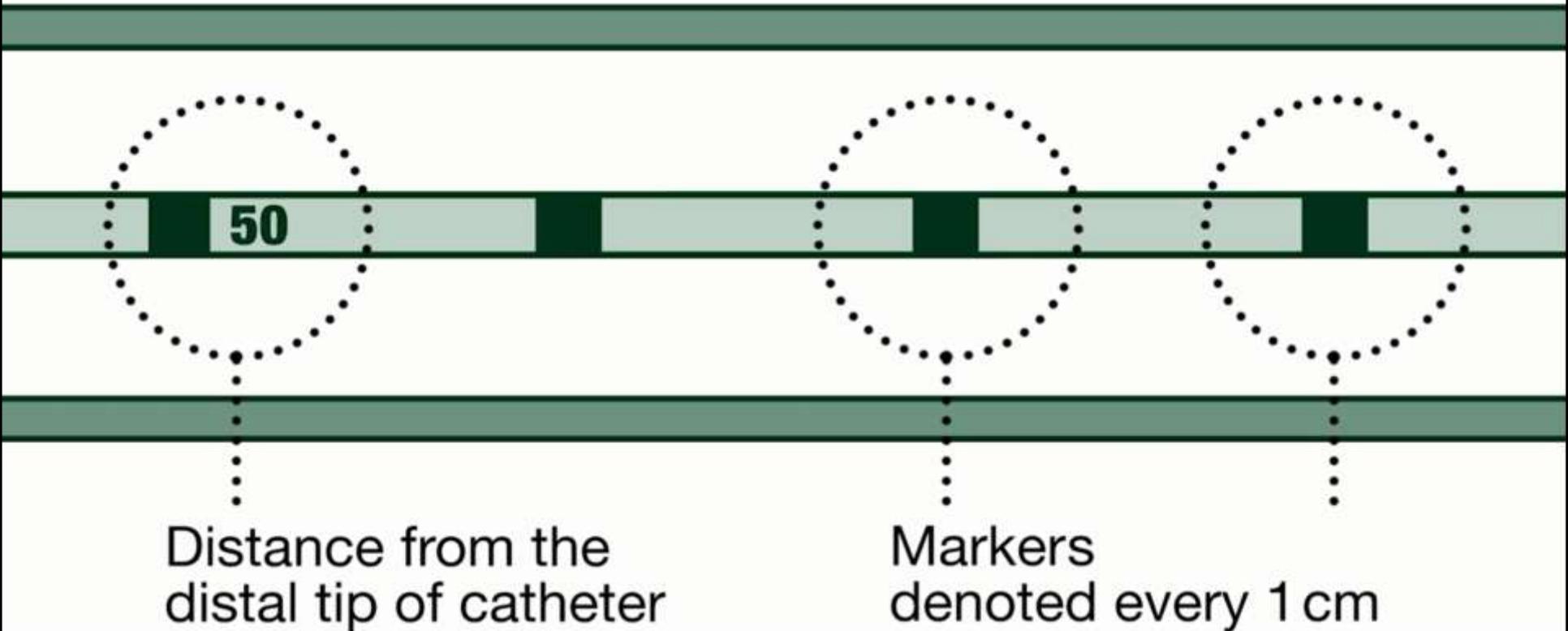
## Marking system

- What is it?
- How does it work?
- What are the benefits?



# Description

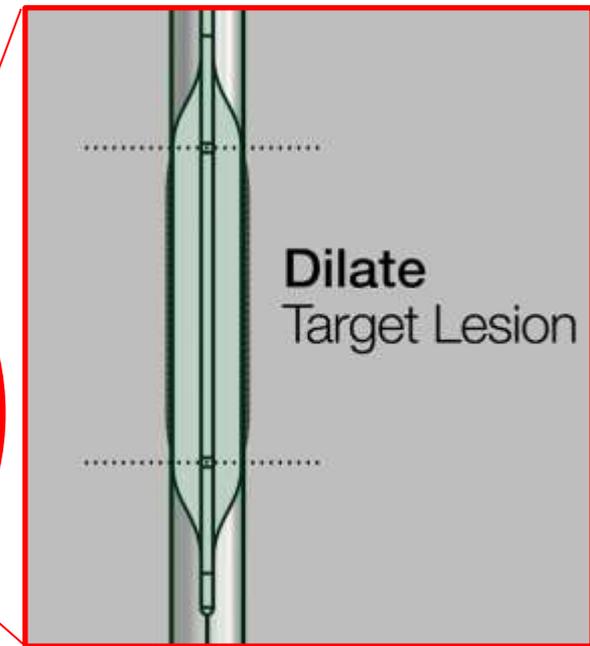
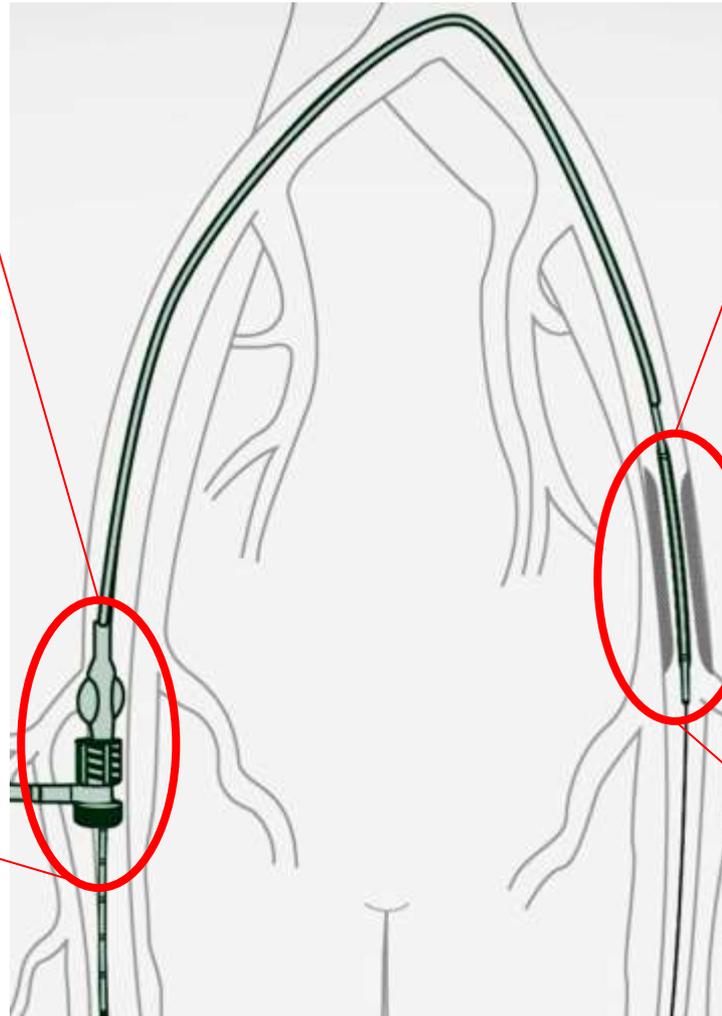
External Ruler on the Catheter Shaft



# Alignment Benefit

Designed to Facilitate Repeat Catheter Alignment at the Lesion\*

**ULTRAVERSE® 035**  
PTA Dilatation Catheter

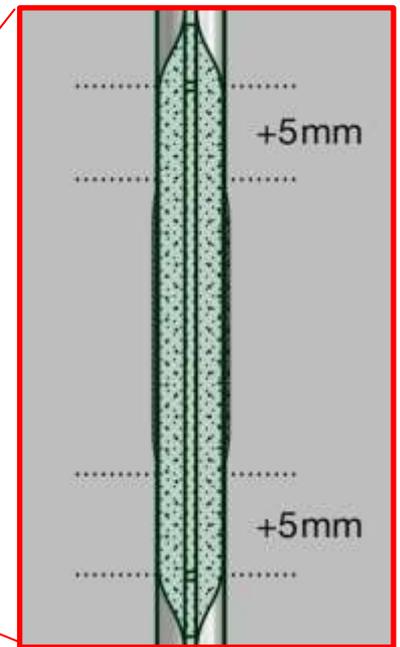
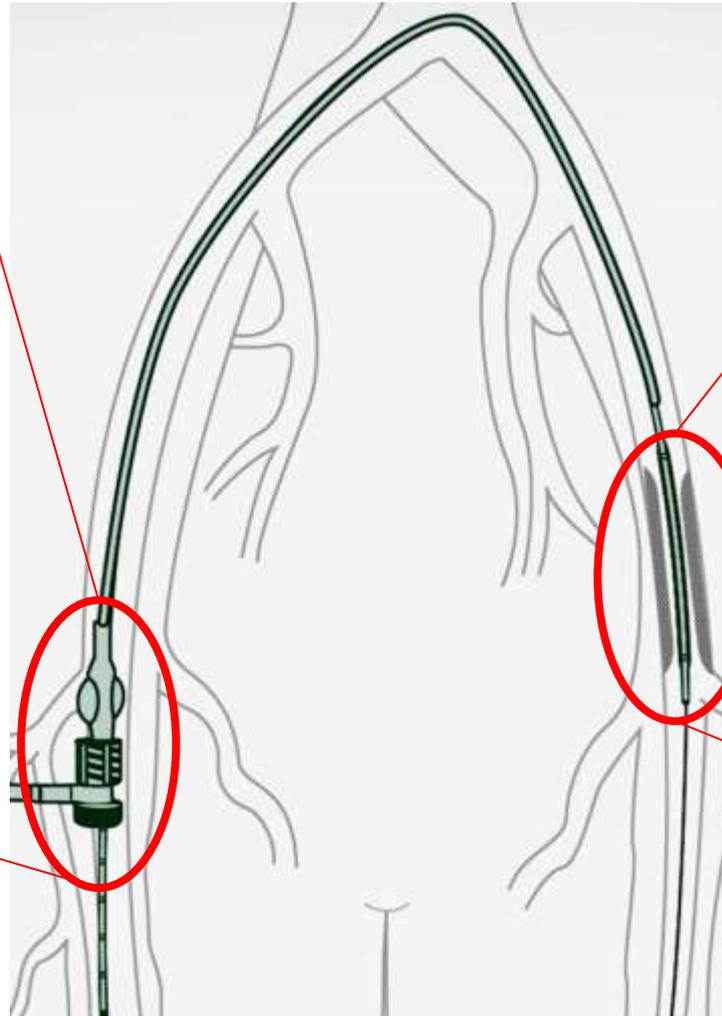


\*When the catheter is exposed to the vascular system, the location of the balloon should be confirmed while under high quality fluoroscopic observation

# Alignment Benefit

Designed to Facilitate Repeat Catheter Alignment at the Lesion\*

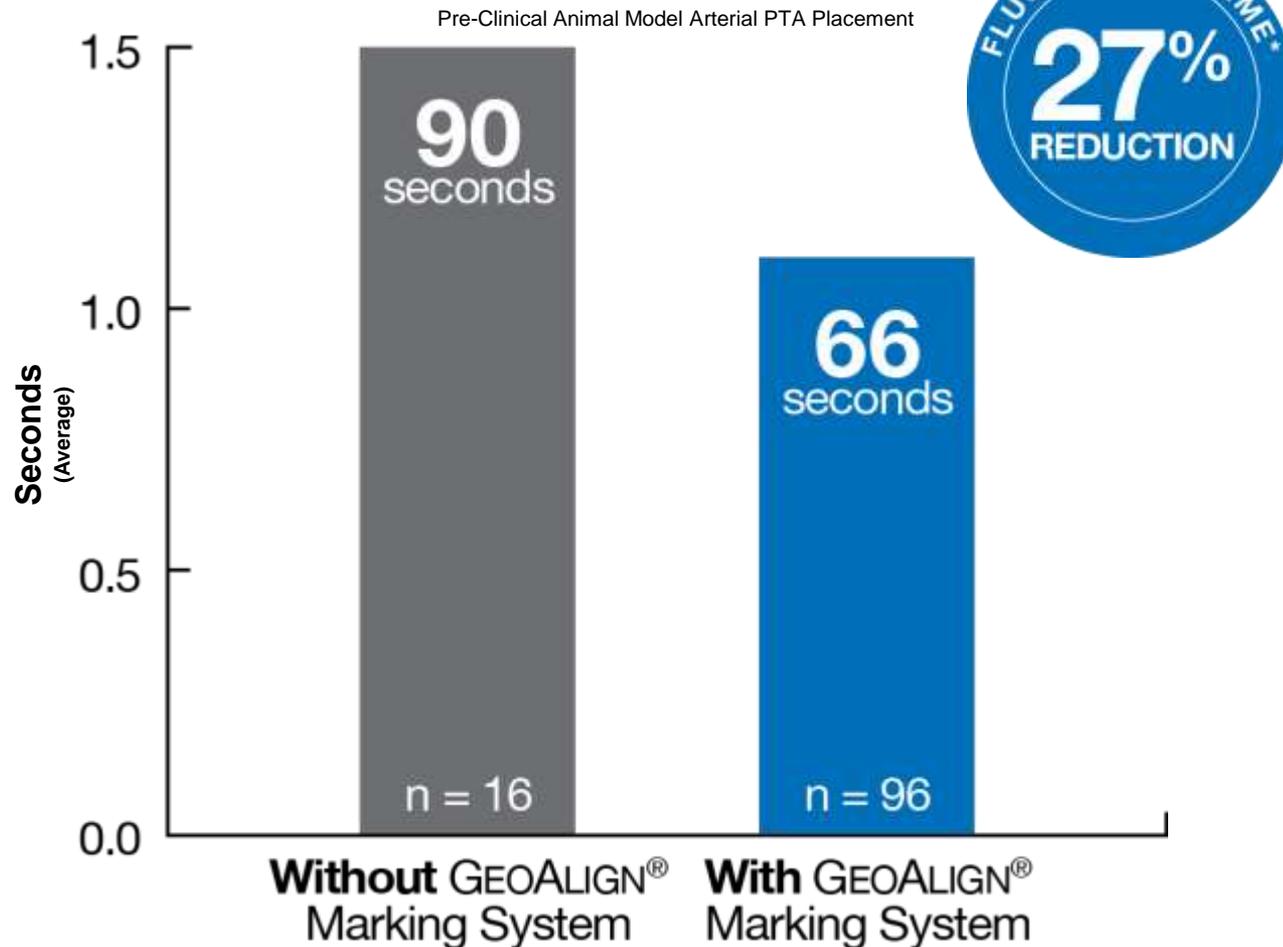
**LUTONIX<sup>®</sup> 035**  
Drug Coated Balloon PTA Catheter



\* The LUTONIX<sup>®</sup> Catheter should always be manipulated under fluoroscopic observation when in the body

# Radiation Consideration

Designed to Increase Procedure Efficiency by Minimizing Fluoroscopy Exposure\*



\*Animal study (repeat PTA in swine artery) was performed by 3 physicians who tested the Lutonix® 035 DCB (no drug) and the Ultraverse® 035 PTA Catheter, both with GeoAlign® Markers, to POBA with no GeoAlign® Markers (n=112, test n=96 (with an average placement time of 66 seconds), control n=16 (with an average placement of 90 seconds)). Animal data on file. Bard. Animal test results may not be indicative of clinical performance. Different test methods may yield different results.



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# Radiation Facts



EVERY DAY HEALTHCARE PROFESSIONALS ARE EXPOSED TO THE HARMFUL EFFECTS OF RADIATION



**6-fold increase<sup>1</sup>**

NEARLY 40% OF THE INCREASED EXPOSURE IS RELATED TO CARDIOVASCULAR IMAGING AND INTERVENTION

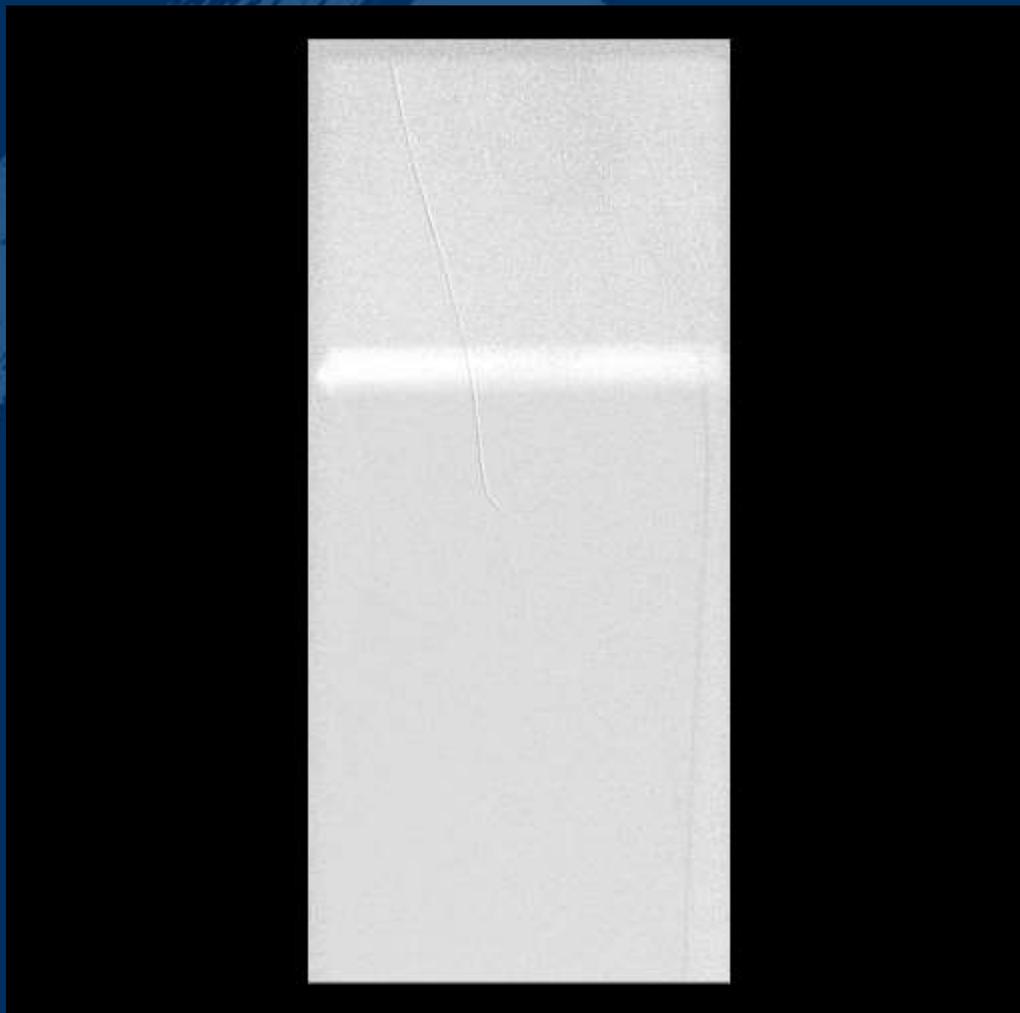
## Findings\*:

- Image guided medical procedures using interventional fluoroscopy are the leading source of occupation ionizing radiation exposure for medical personnel
- Risk of cancer increases linearly with increasing doses
- **Average** ionizing radiation head exposure to an IC over a 20 year career = 1,000 mSv
  - 1,000 mSv correlated to a 5% risk of cancer



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# Patient Runoff



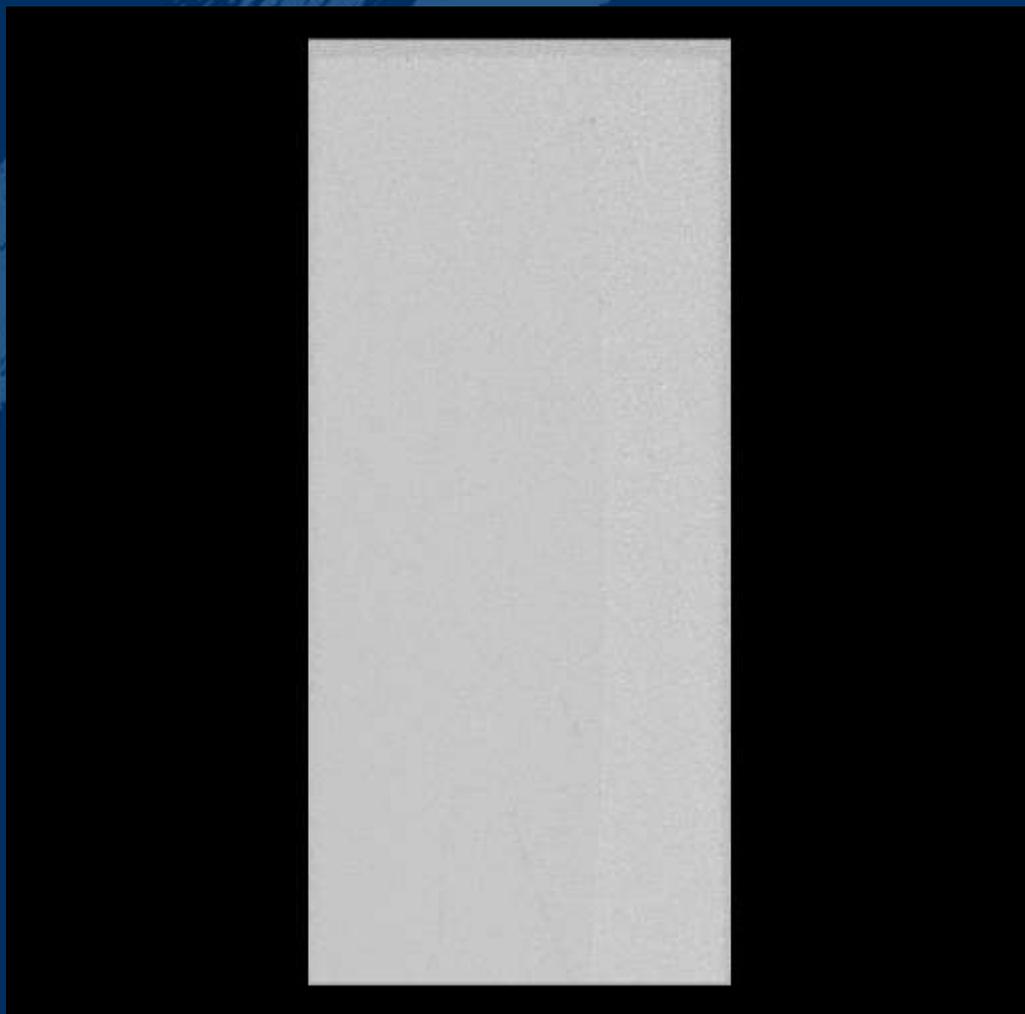
## Disease Description:

- Mid SFA stenosis
- Total occlusion
- De novo lesion
- Rutherford 4
- Diabetic
- Two vessel runoff BTK



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# Patient Runoff (Cont...)



## Disease Description:

- Mid SFA stenosis
- Total occlusion
- De novo lesion
- Rutherford 4
- Diabetic
- Two vessel runoff BTK



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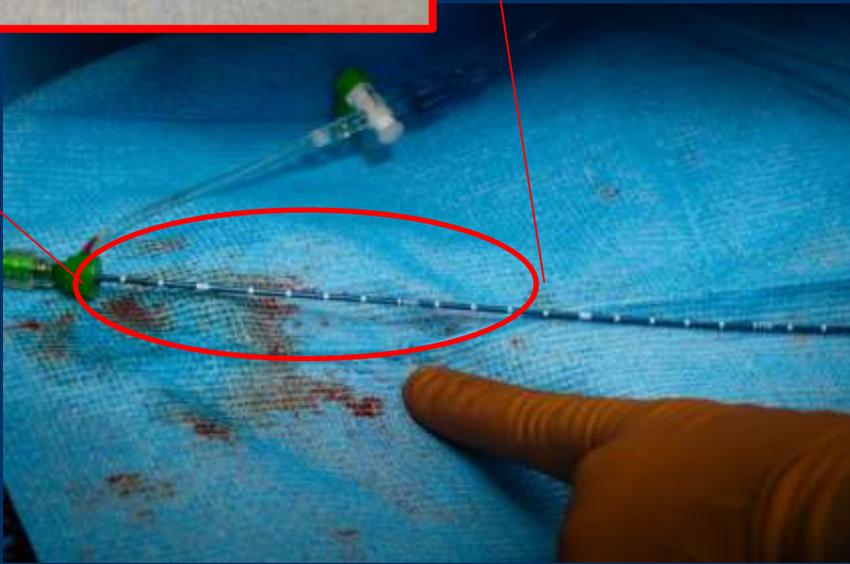
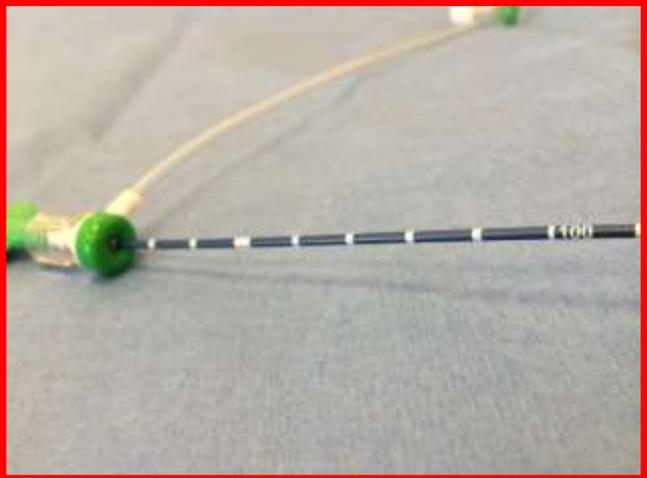
# Pre-Dilatation\*

## ULTRAVERSE® 035

PTA Dilatation Catheter

5 x 250mm PTA Balloon

GEOALIGN® Marker = 92cm



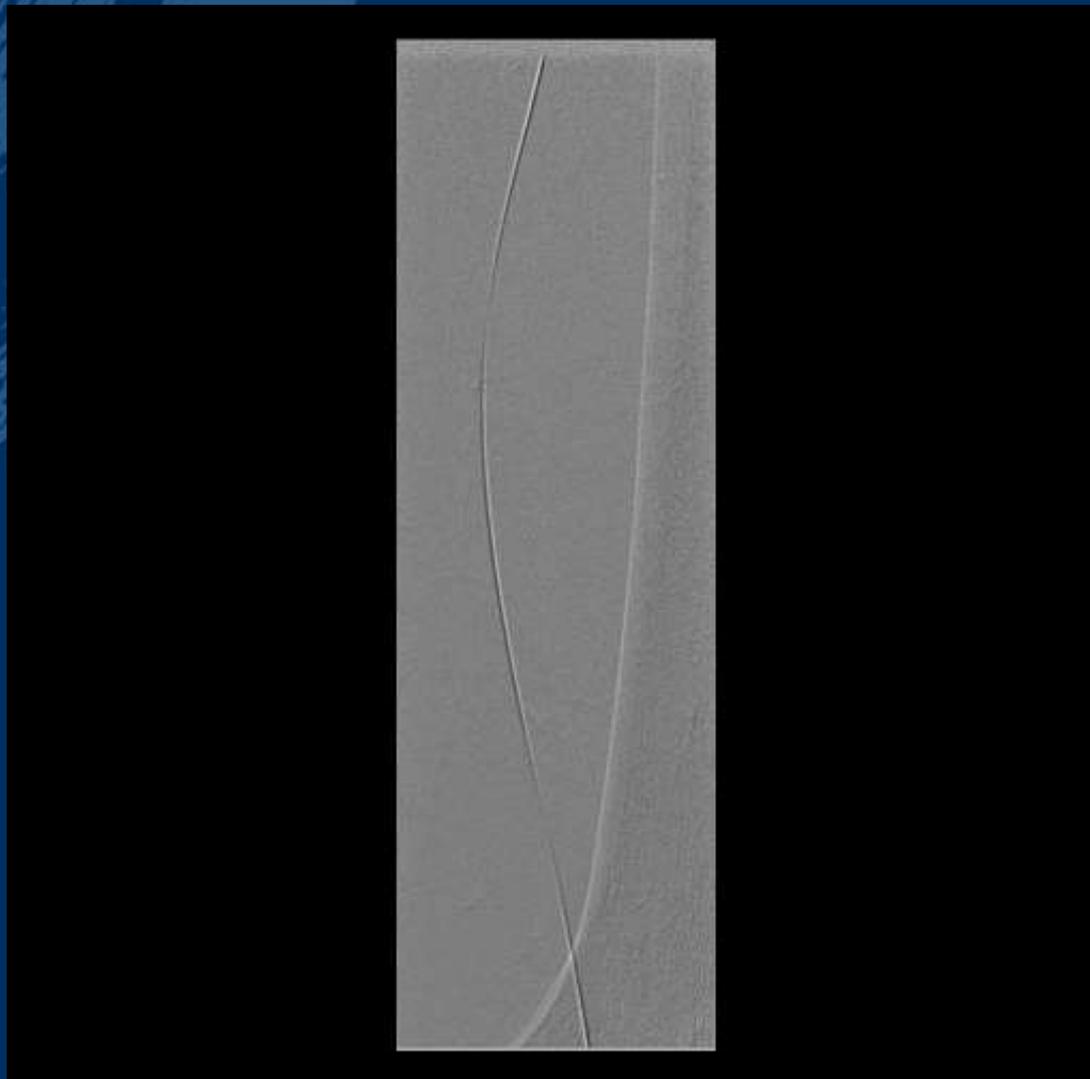
\*When the catheter is exposed to the vascular system, the location of the balloon should be confirmed while under high quality fluoroscopic observation



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ULTRAVERSE<sup>®</sup> 035  
PTA Dilatation Catheter

## Post Pre-Dilatation Angiogram





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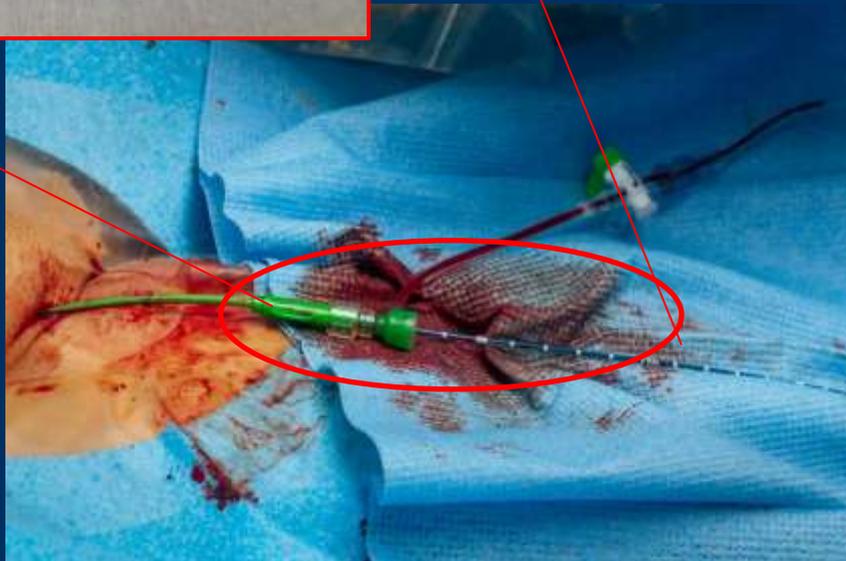
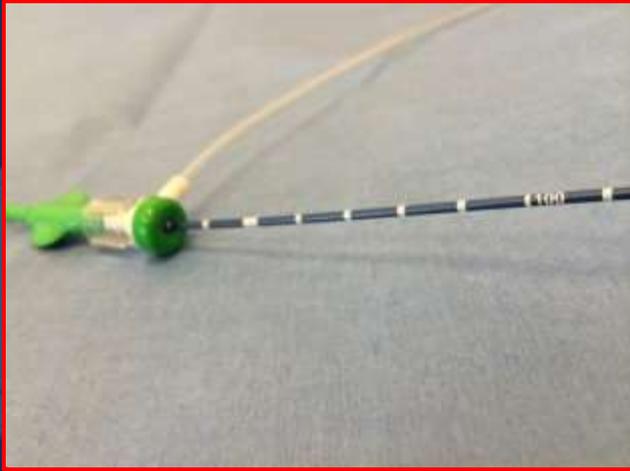
# Drug Coated Balloon

LUTONIX<sup>®</sup> 035

\* Drug Coated Balloon PTA Catheter

6 x 150mm PTA Balloon

GEOALIGN<sup>®</sup> Marker = 93cm (to distal lesion)



\* The LUTONIX<sup>®</sup> Catheter should always be manipulated under fluoroscopic observation when in the body

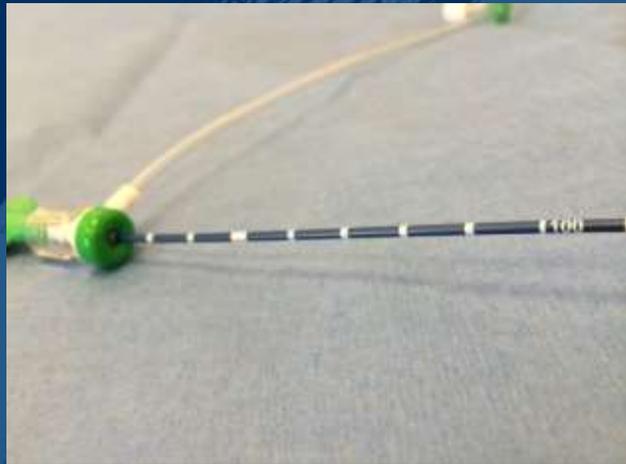


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# Alignment

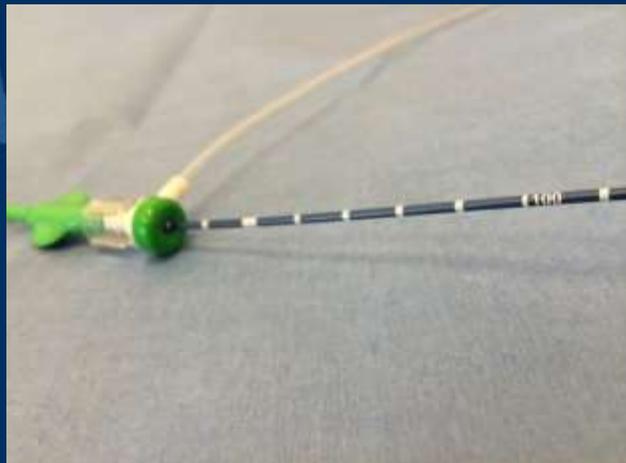
**Pre-Dilatation**

**GEOALIGN® Marker = 92cm**



**DCB**

**GEOALIGN® Marker = 93cm**



**ULTRAVERSE® 035**

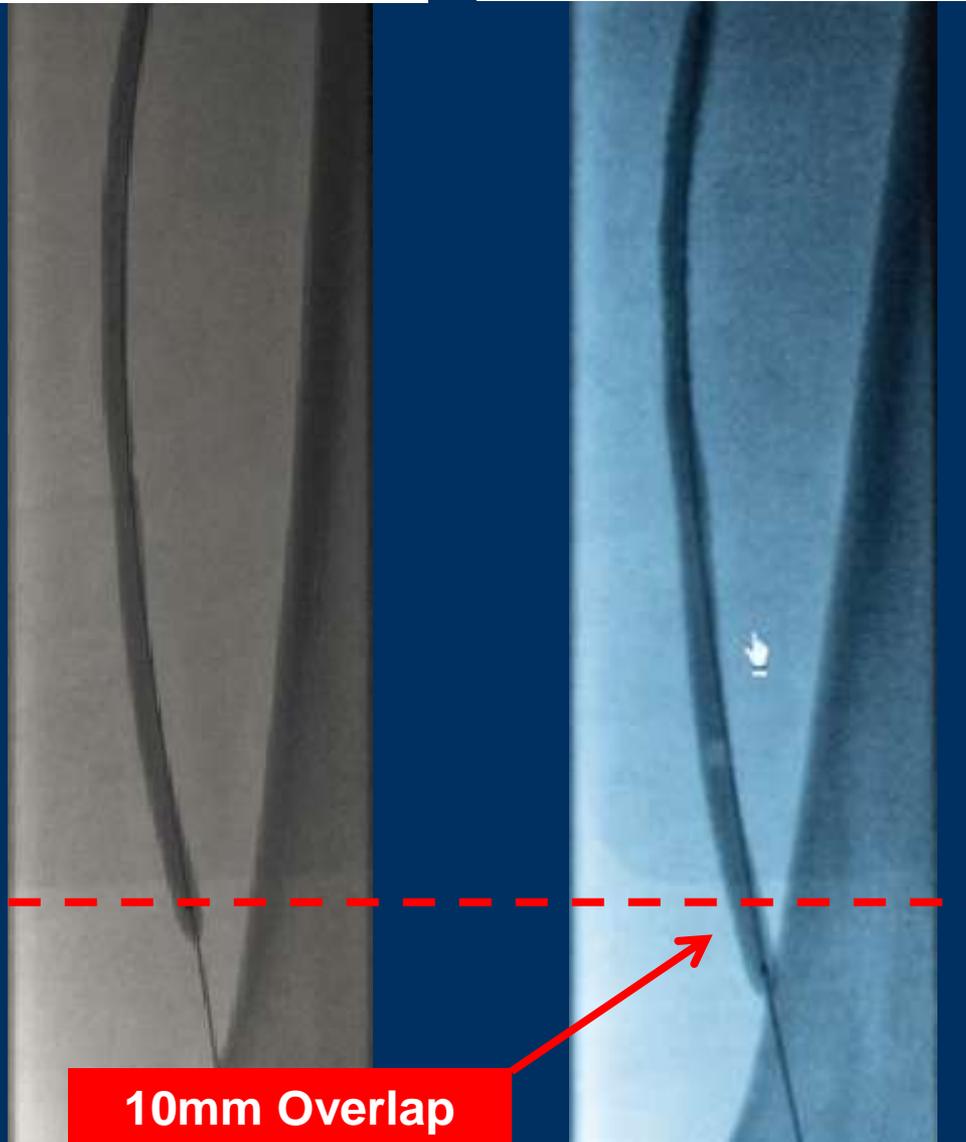
PTA Dilatation Catheter

**5 x 250mm PTA Balloon**

**LUTONIX® 035**

Drug Coated Balloon PTA Catheter

**6 x 150mm PTA Balloon**



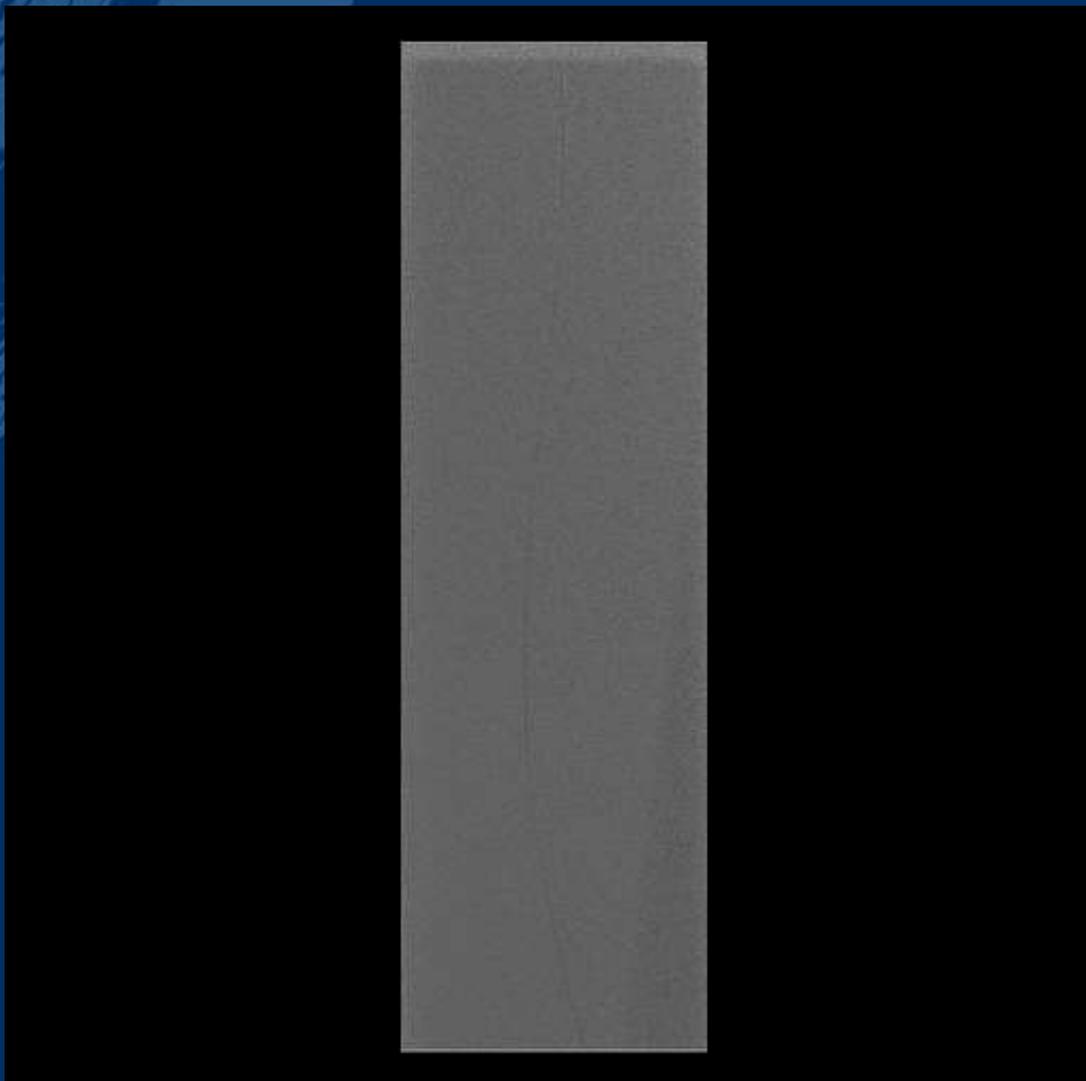
**10mm Overlap**



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LUTONIX<sup>®</sup> 035  
Drug Coated Balloon PTA Catheter

# Post DCB Angiogram





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# Summary

GeoAlign® Marking System is designed to facilitate repeat catheter alignment at the lesion

GeoAlign® Marking System helps promote efficiency when aligning the DCB to the pre-dilatation balloon, thereby helping to reduce fluoroscopy exposure



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# Optimizing lesion cross ability and accuracy by reducing fluoroscopy time and radiation exposure

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