



1-2-3 FÉVRIER 2023

MARSEILLE • PALAIS DU PHARO



Un cas de tronc commun

Préparation de la lésion Choix du stent

Frédéric BOUISSET ^{1,2}

1: CHU Toulouse Rangueil, Toulouse – France

2: OLV Cardiovascular center, Aalst – Belgium

Statement of financial interest

Speaker's name : Frédéric Bouisset

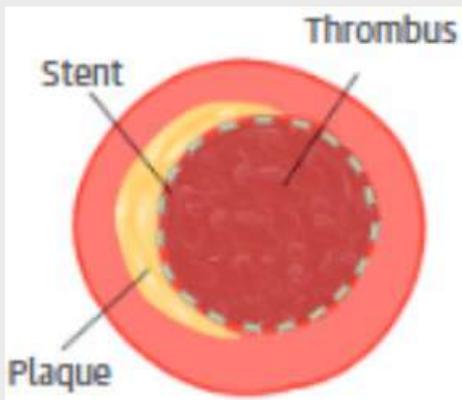
I have the following potential conflicts of interest to report:

Consultant : Amgen, B-Braun, Boston Scientific

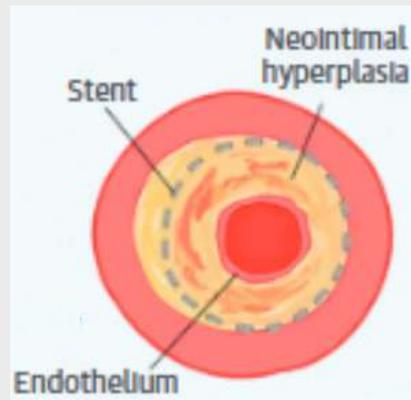
Préparation de la lésion

Pourquoi préparer la lésion?

Résultats cliniques



Thrombose

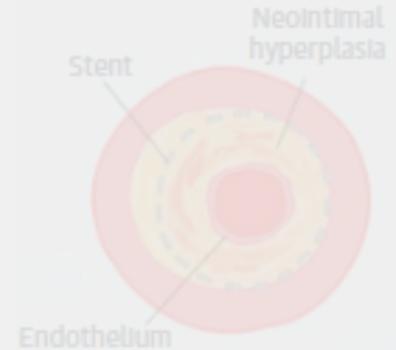
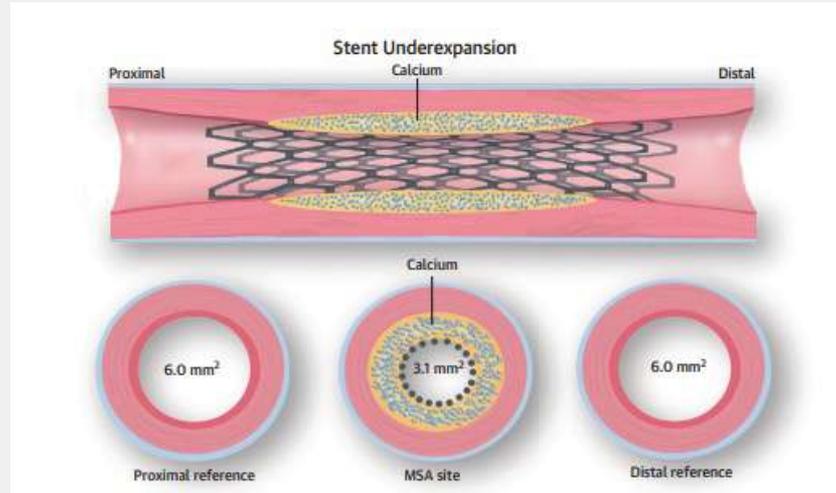


Resténose

Pourquoi préparer la lésion?

Expansion du stent

Résultats cliniques

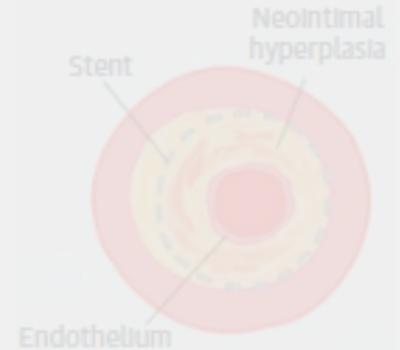
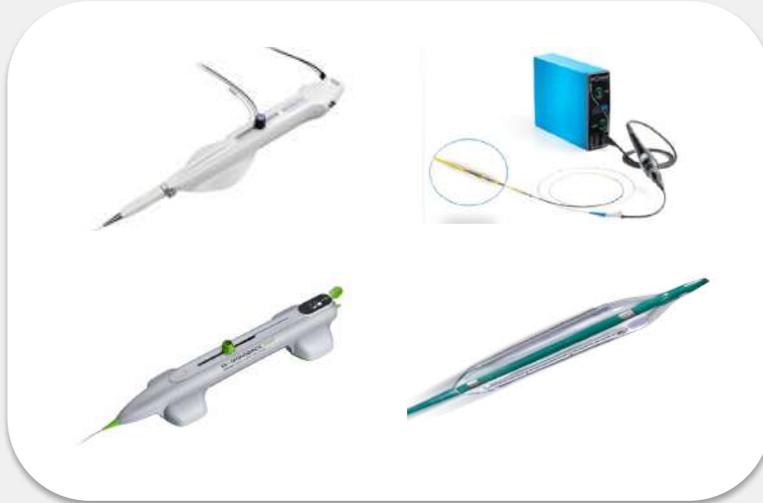


Pourquoi préparer la lésion?

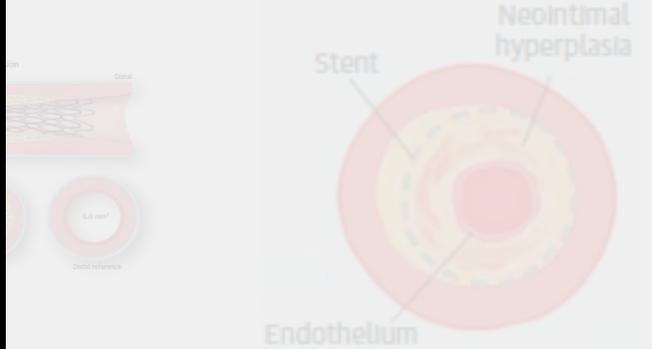
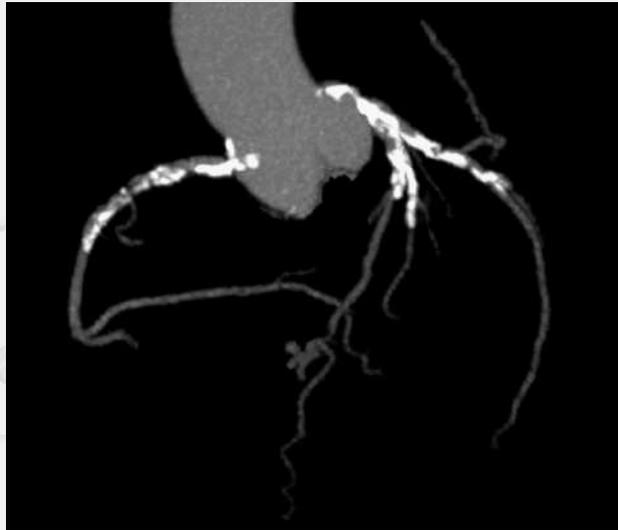
Préparation de
la lésion

Dilatation du
stent

Résultats
cliniques



Pourquoi préparer la lésion?



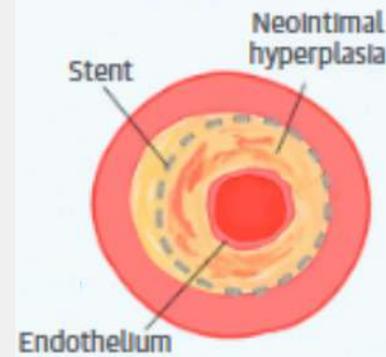
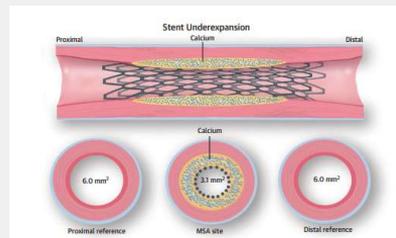
Pourquoi préparer la lésion?

Lésions résistantes

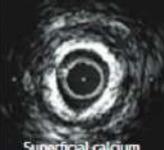
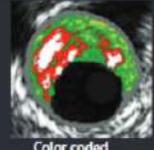
Préparation de la lésion

Expansion du stent

Résultats cliniques

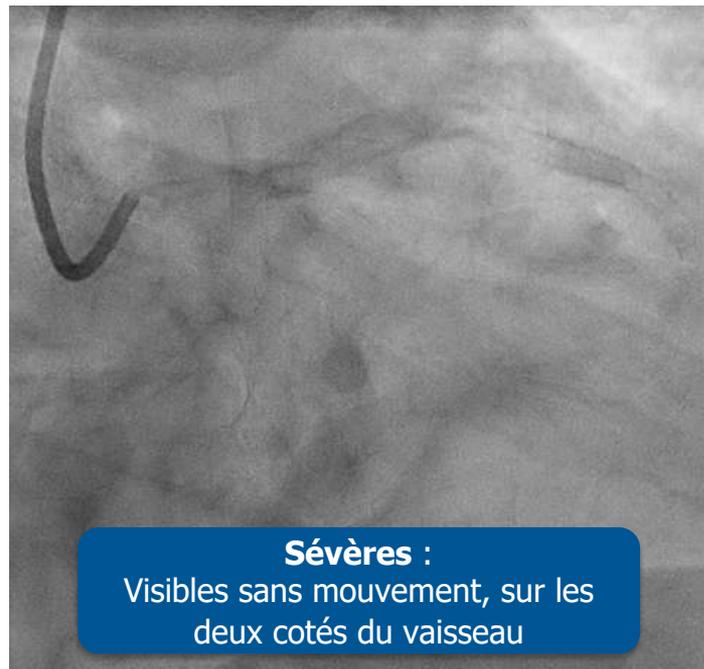
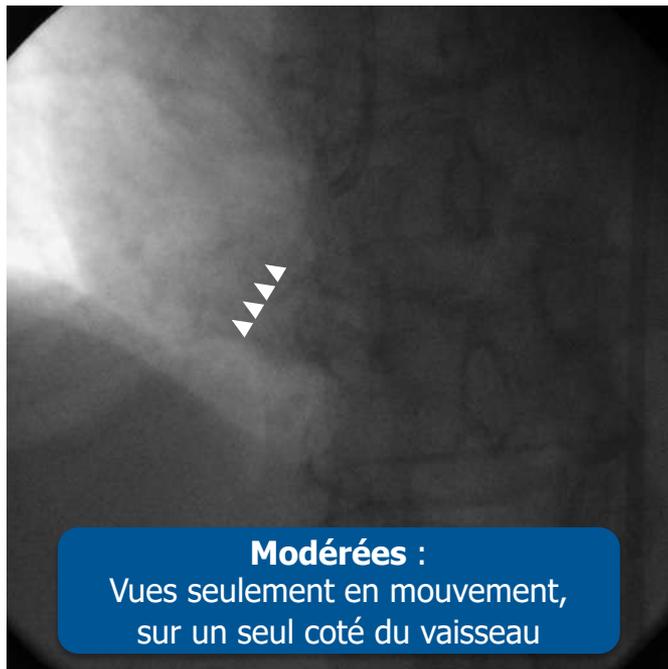


Identifier les lésions résistantes

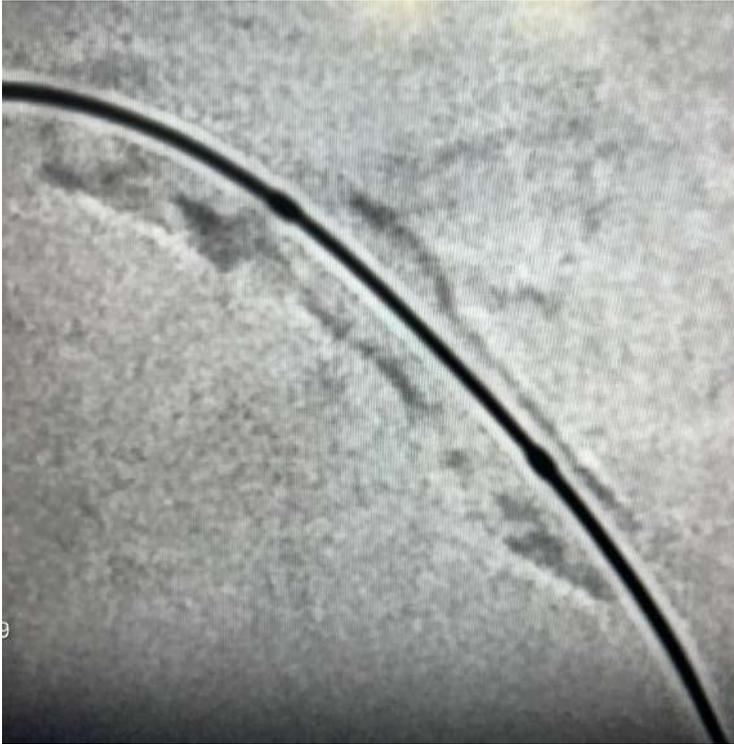
| | Coronary Angiography | CT | IVUS | RF-IVUS (IVUS-VH) | OCT |
|---|---|---|--|---|---|
| IMAGING MODALITIES |  |  |  |  |  |
| Detection of coronary artery calcium | + | +++ | +++ | +++ | ++++ |
| Localization of coronary artery calcium | + | +++ | +++ | +++ | ++++ |
| Quantification of coronary artery calcium | + | +++ | ++ | +++ | ++++ |
| |  |  |  |  |  |

Identifier les lésions résistantes

Angiographie Coronaire

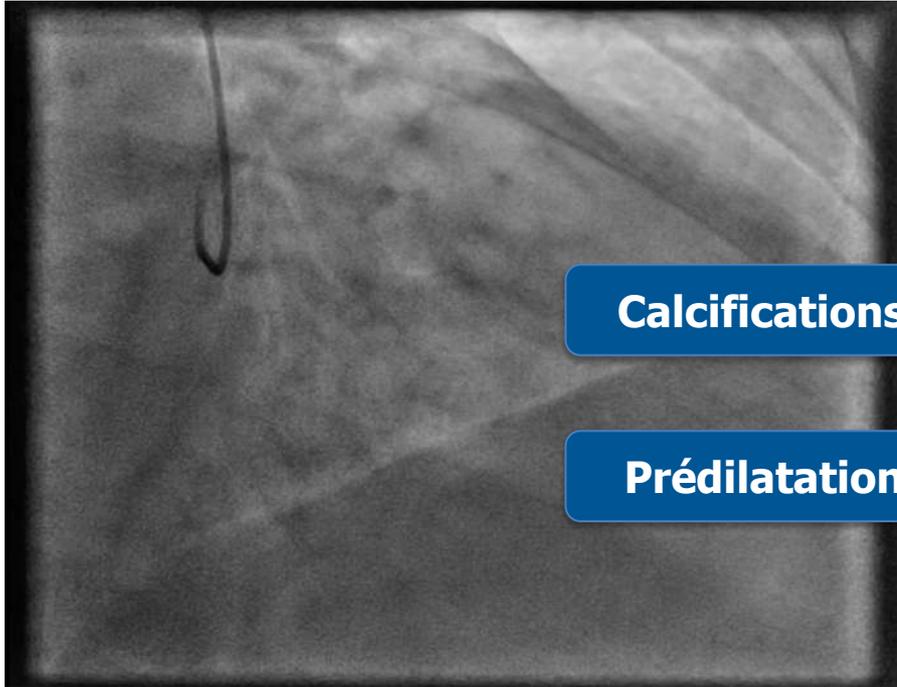


Le réhausseur de stent

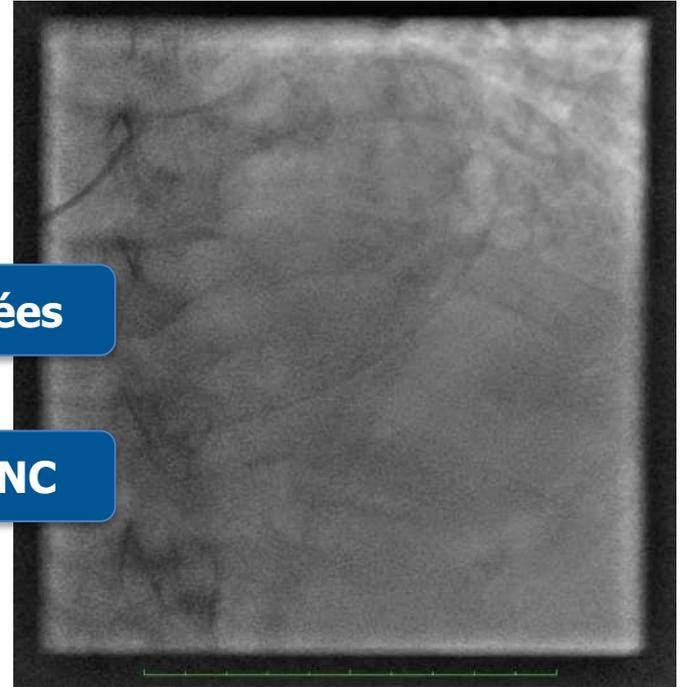


**En cas de doute (qualité
d'image, doute avec un
ancien stent...)**

Notre cas du jour

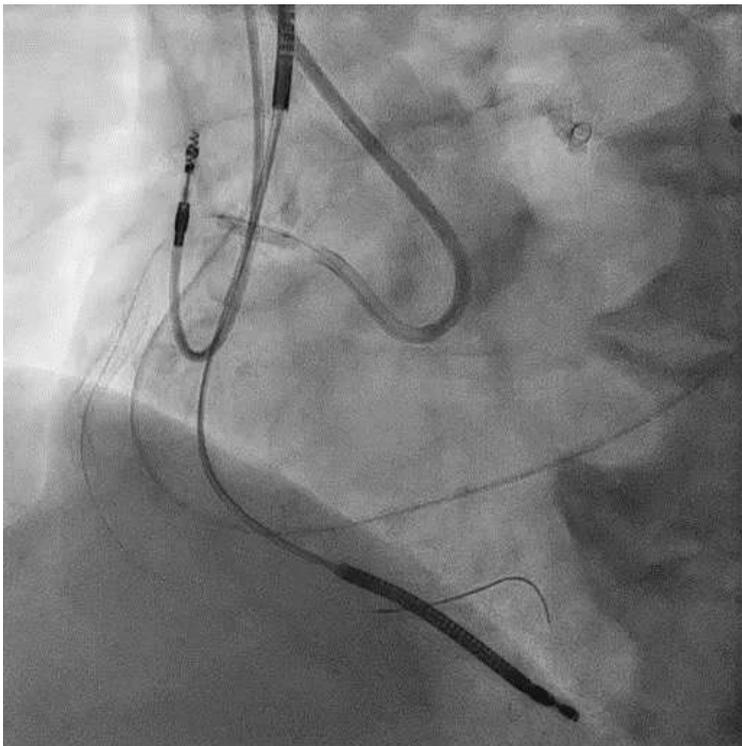


Calcifications modérées

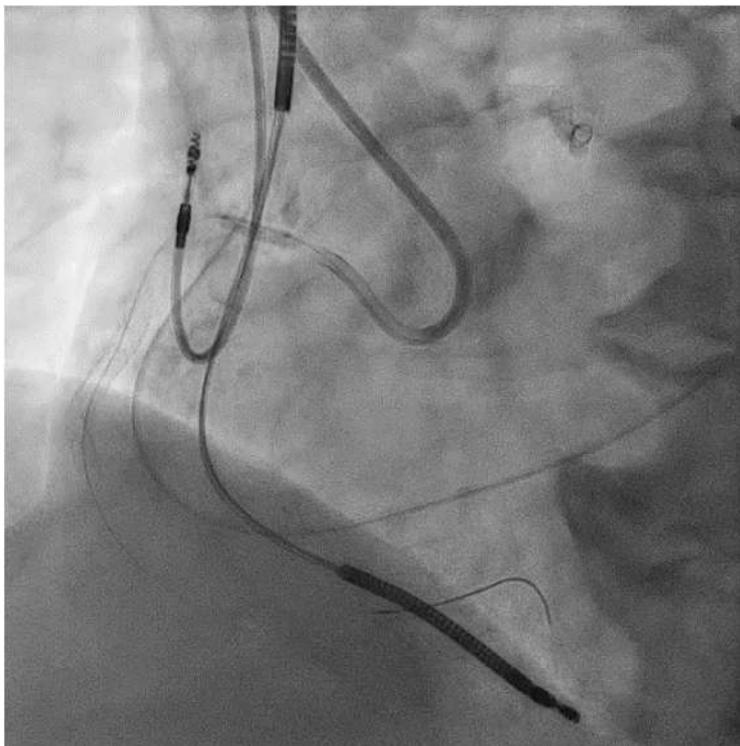


Prédilatation ballon NC

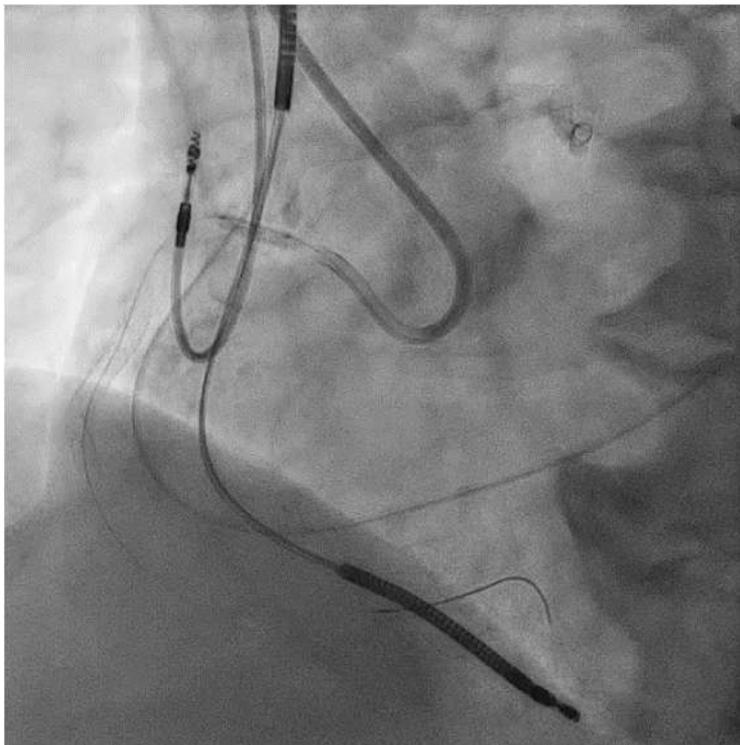
L'efficacité de la préparation



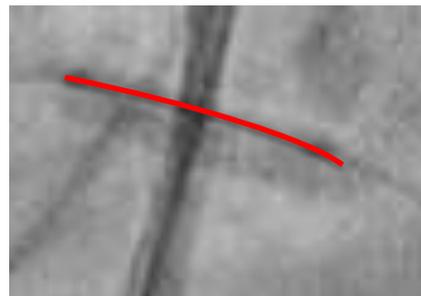
L'efficacité de la préparation



L'efficacité de la préparation

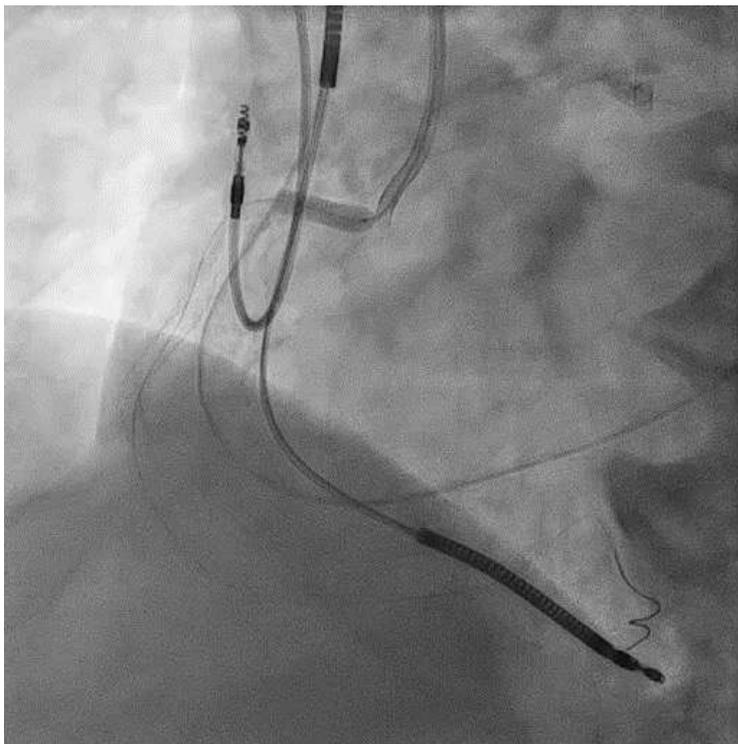


Préparation insuffisante



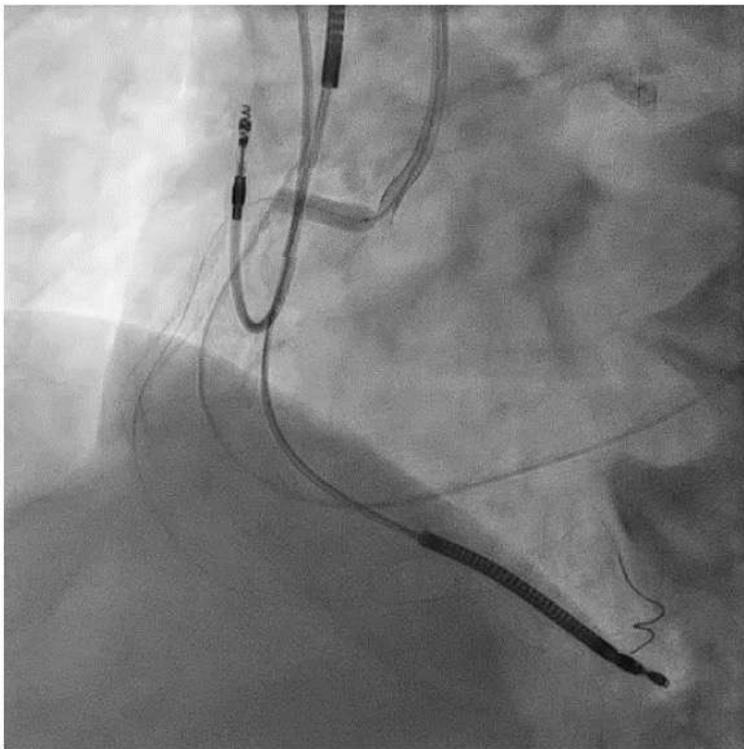
**Expansion du ballon
excentrique**

L'efficacité de la préparation

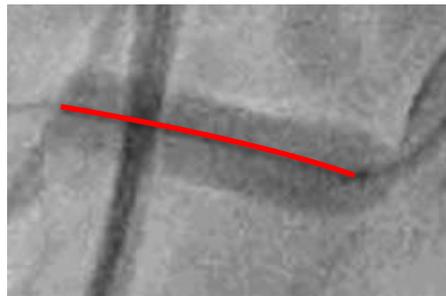
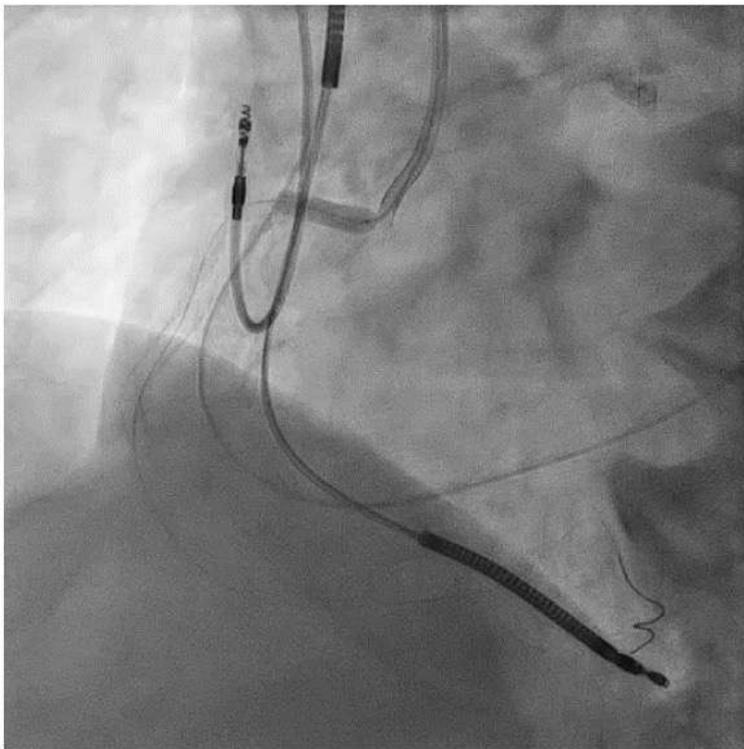


**Après 8 cycles de
lithotripsie intra
coronaire
et ballon NC 20 ATM**

L'efficacité de la préparation

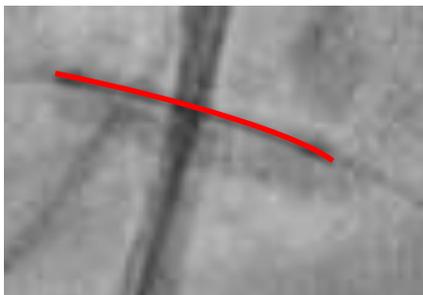


L'efficacité de la préparation

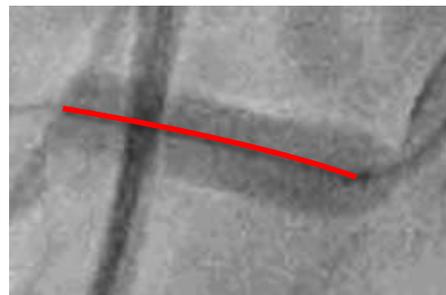


**Expansion du ballon
concentrique**

L'efficacité de la préparation



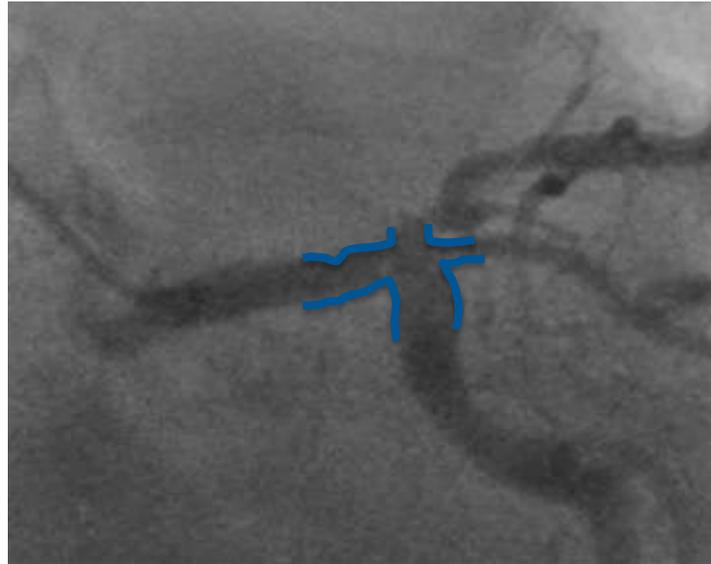
**Expansion du ballon
excentrique**



**Expansion du ballon
concentrique**

Le choix du stent

Le choix du stent



Le choix du stent

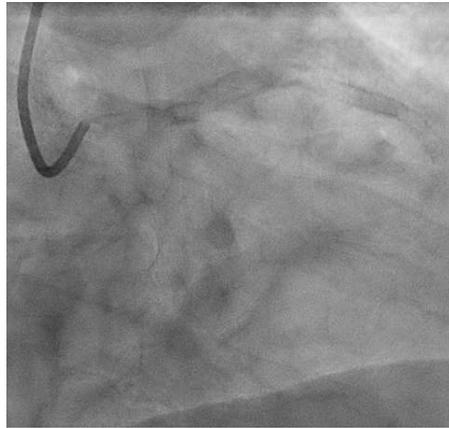


**Vérifier la table de
compliance de
l'endoprothèse**

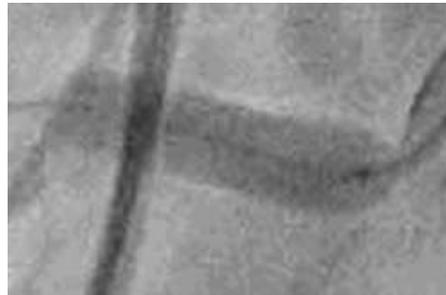
Diamètre = + 57 %

Conclusion, TCG distal calcifié

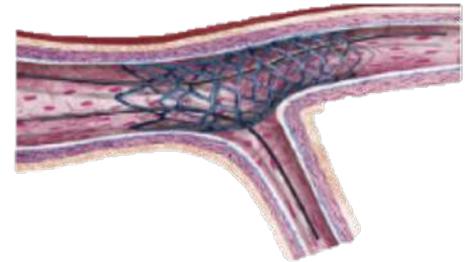
Evaluer le degré de calcification et préparer en fonction



S'assurer de l'efficacité de la préparation



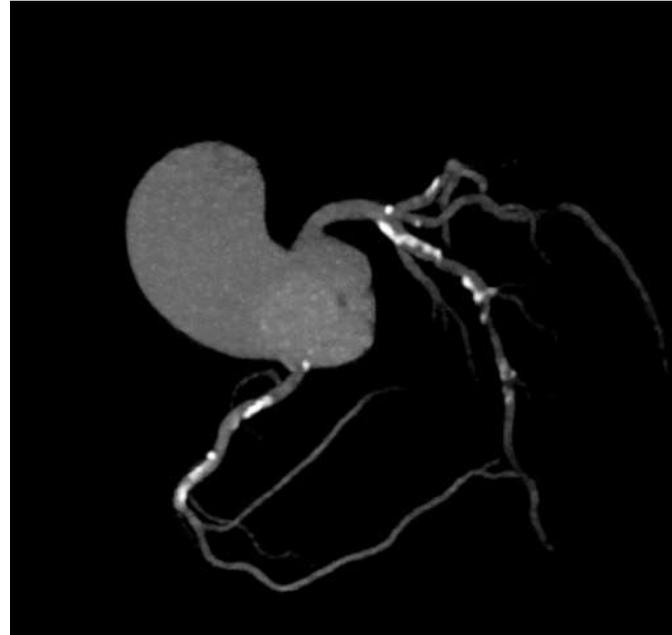
Choisir un stent compatible avec la surexpansion



Back-up slides

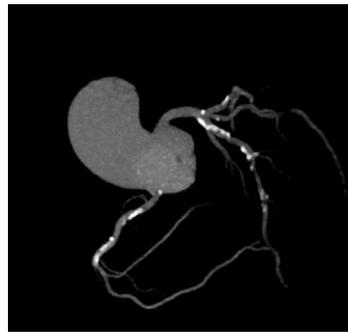


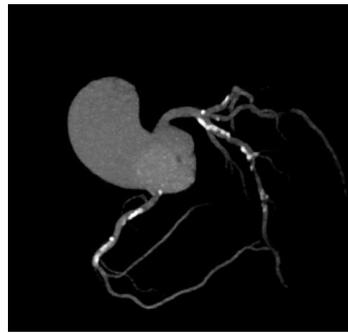
CT-guided PCI





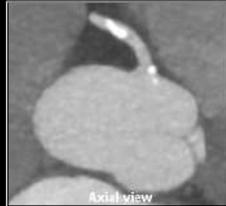
CoreAalst
At the heart of innovation



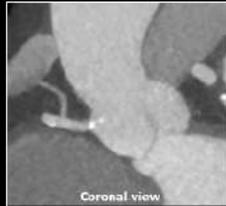


Coronary Ostia Position

Right Coronary Artery

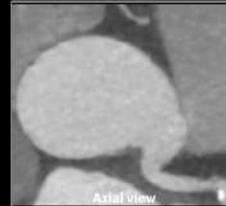


Axial view

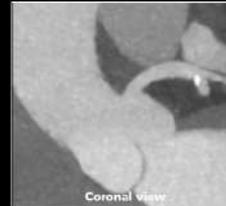


Coronal view

Left Coronary Artery



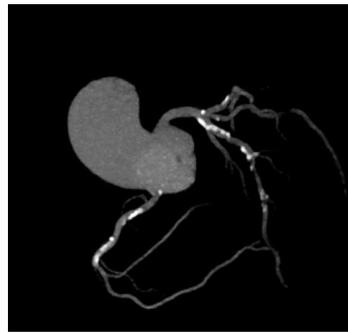
Axial view



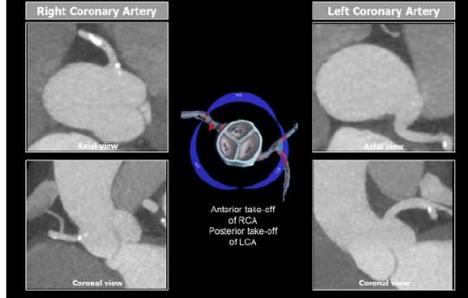
Coronal view

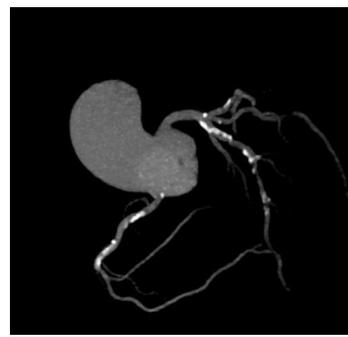


Anterior take-off
of RCA
Posterior take-off
of LCA



Coronary Ostia Position



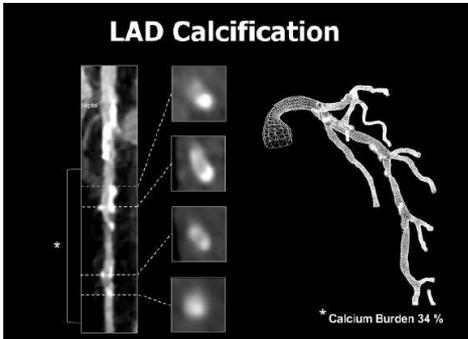
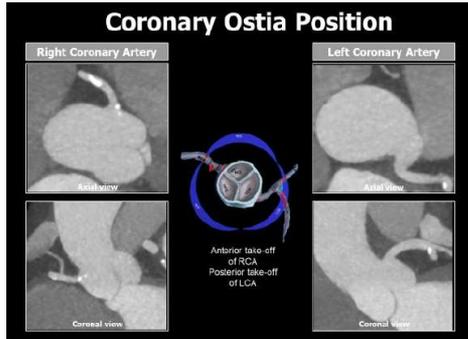
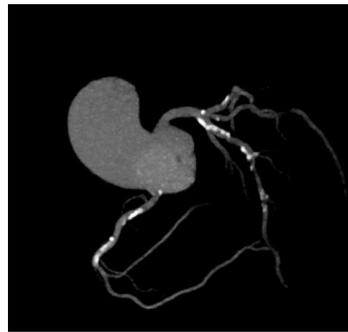


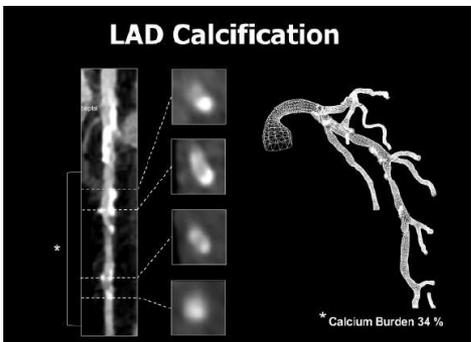
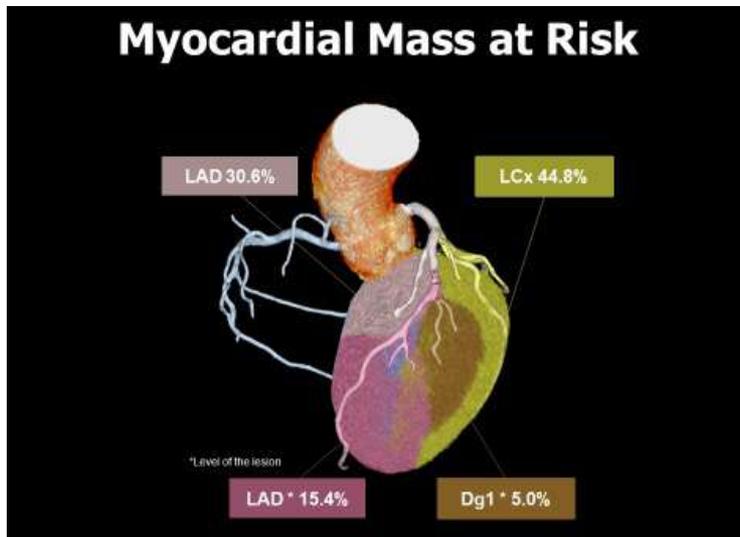
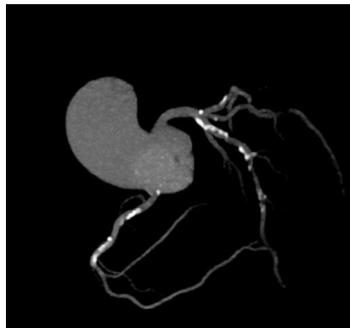
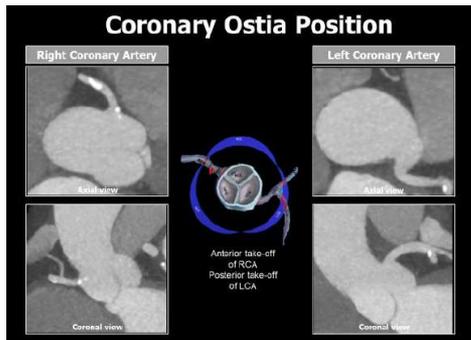
Coronary Ostia Position

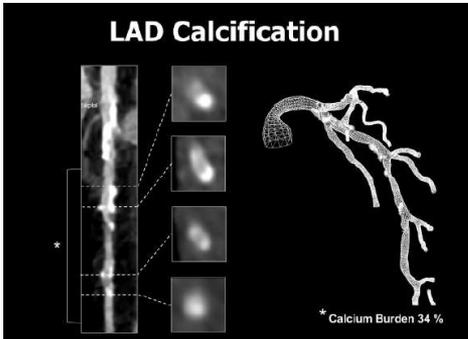
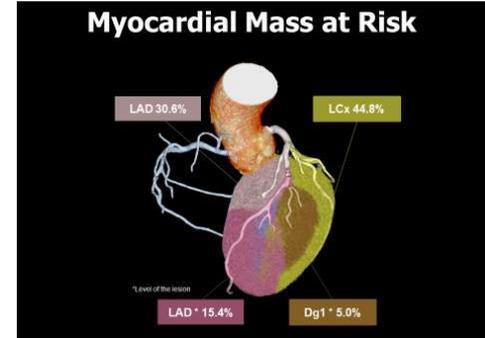
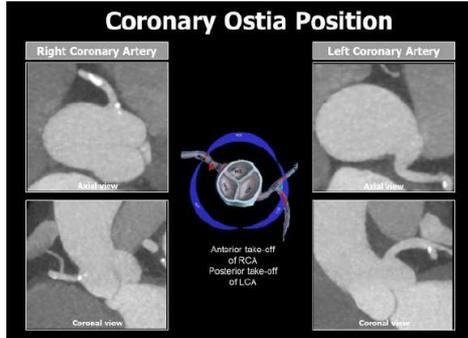
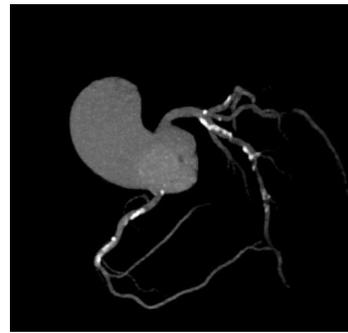
| Right Coronary Artery | Left Coronary Artery |
|-----------------------|----------------------|
| | |
| | |

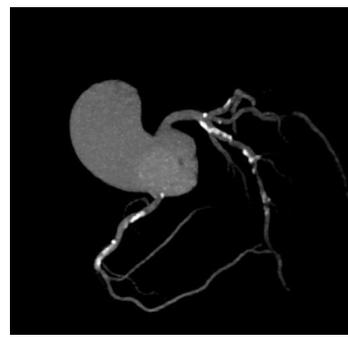
Anterior take-off of RCA
Posterior take-off of LCA

LAD Calcification









Coronary Ostia Position

Right Coronary Artery

Axial view

Coronal view

Left Coronary Artery

Axial view

Coronal view

Anterior take-off of RCA
Posterior take-off of LCA

Myocardial Mass at Risk

LAD 30.6%

LCx 44.8%

LAD* 15.4%

Dg1* 5.0%

*Level of the lesion

LAD Calcification

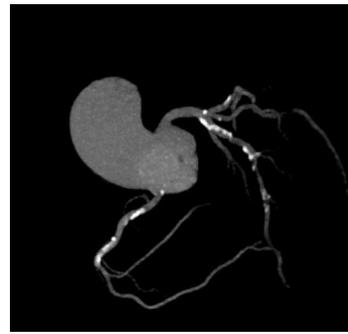
* Calcium Burden 34 %

Best Projections

LAD

RAO 30
CRA 40

AP 0
CRA 40



Coronary Ostia Position

Right Coronary Artery

Axial view

Coronal view

Left Coronary Artery

Axial view

Coronal view

Anterior take-off of RCA
Posterior take-off of LCA

Myocardial Mass at Risk

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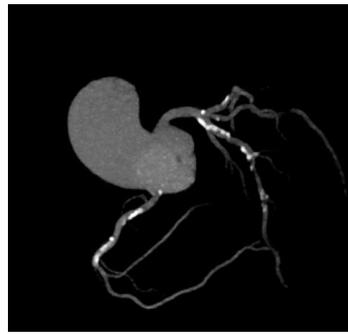
LAD Calcification

* Calcium Burden 34 %

Best Projections LAD

RAO 30
CRA 40

AP 0
CRA 40



Coronary Ostia Position

Right Coronary Artery

Axial view
Coronal view

Left Coronary Artery

Axial view
Coronal view

Anterior take-off of RCA
Posterior take-off of LCA

LAD Calcification

* Calcium Burden 34 %

FFR_{CT} Planner

FFR_{CT}

1.00 0.99 0.96 0.77 0.68 0.65

Left Anterior Descending Artery (LAD)

FFR_{CT} Planner

1.00 0.95 0.90 0.88

LAD DES 40 mm

Myocardial Mass at Risk

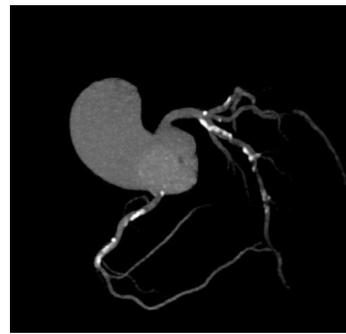
LAD 30.6%
LCx 44.8%
LAD* 15.4%
Dg1* 5.0%

* Level of the lesion

Best Projections LAD

RAO 30
CRA 40

AP 0
CRA 40



Coronary Ostia Position

Right Coronary Artery

Axial view
Coronal view

Left Coronary Artery

Axial view
Coronal view

Anterior take-off of RCA
Posterior take-off of LCA

Myocardial Mass at Risk

LAD 30.6%
LCx 44.8%
LAD* 15.4%
Dg1* 5.0%

*Level of the lesion

LAD Calcification

* Calcium Burden 34 %

FFR_{CT} FFR_{CT} Planner

1.00 0.99 0.96 0.77 0.68 0.65

Left Anterior Descending Artery (LAD)

1.00 0.95 0.90 0.88

LAD DES 40 mm

Best Projections LAD

RAO 30
CRA 40

AP 0
CRA 40