

Choix du cathéter en coronarographie diagnostique et en angioplastie

17h30-18h30

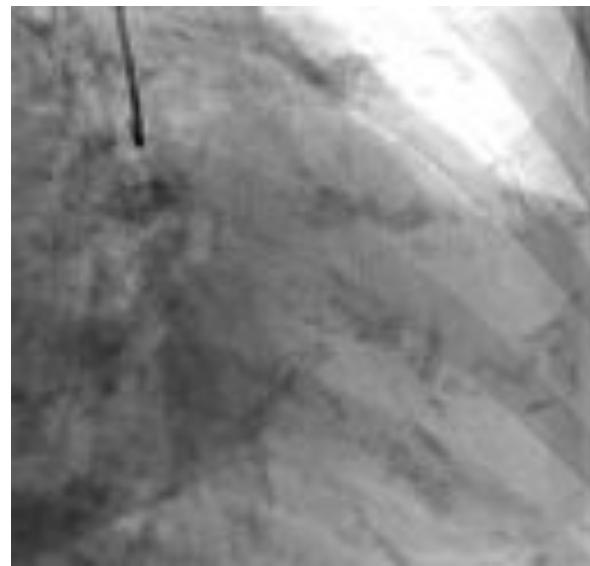
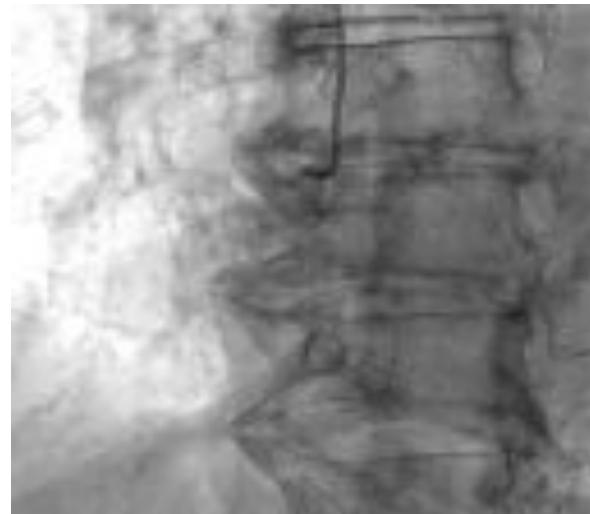
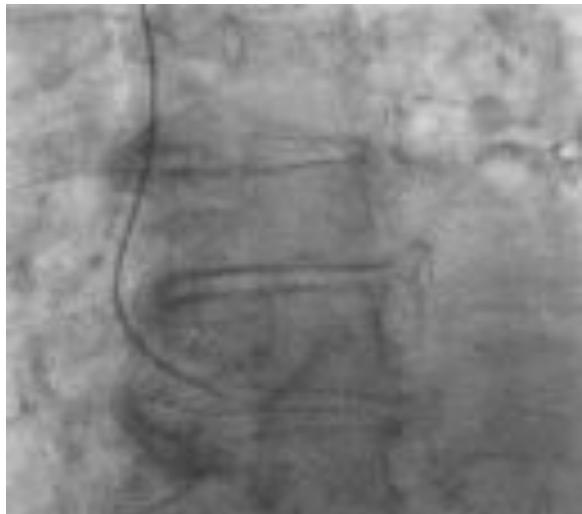
//Ateliers

Salles de sous-commissions

Cordis
part of the Johnson & Johnson FAMILY OF COMPANIES

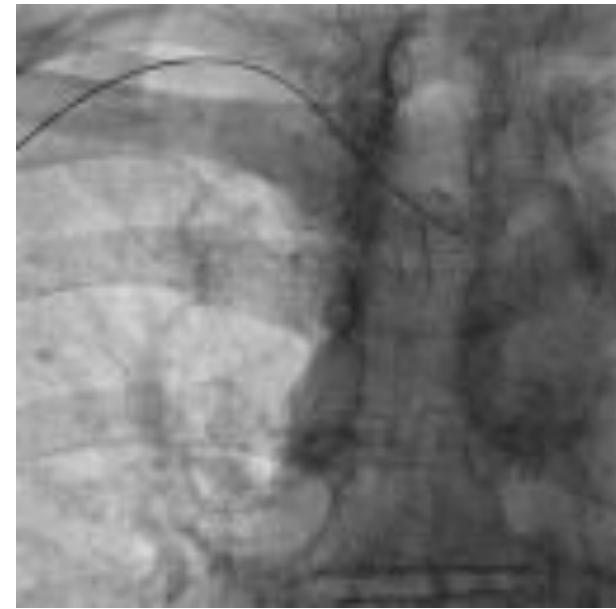
Le choix du cathéter guide, élément essentiel pour réussir son angioplastie.
B. FAURIE (Grenoble) - **M. GODIN** (Rouen)

Une seule sonde : Rapidité -efficacité

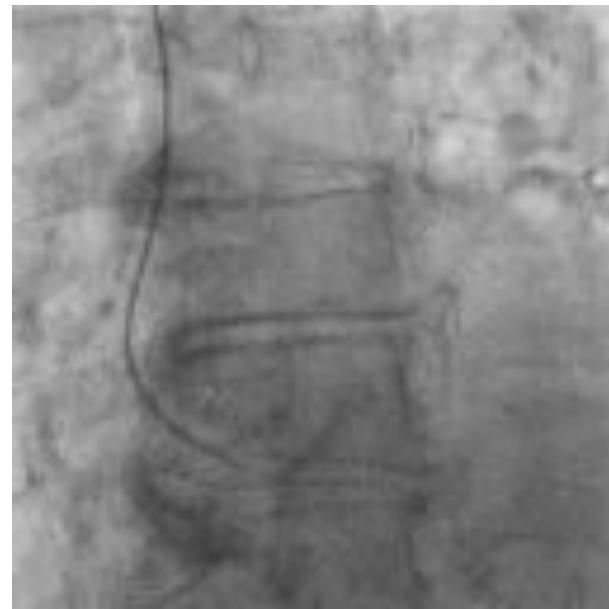


Coronarographie diagnostique

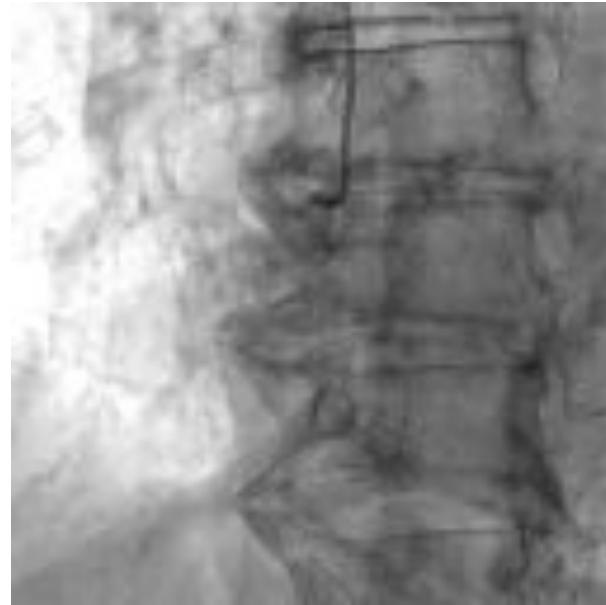
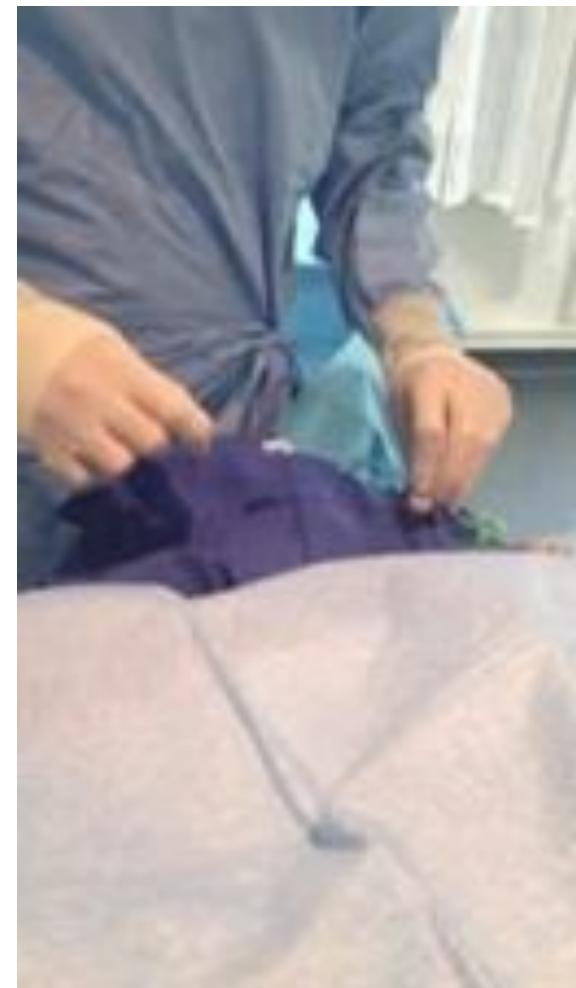
- Voie radiale
- Une seule sonde
- Connaître sa sonde : rapidité et efficacité
 - Diminuer risque de spasme



Maintien de la sonde superTorque (rigidité+++)

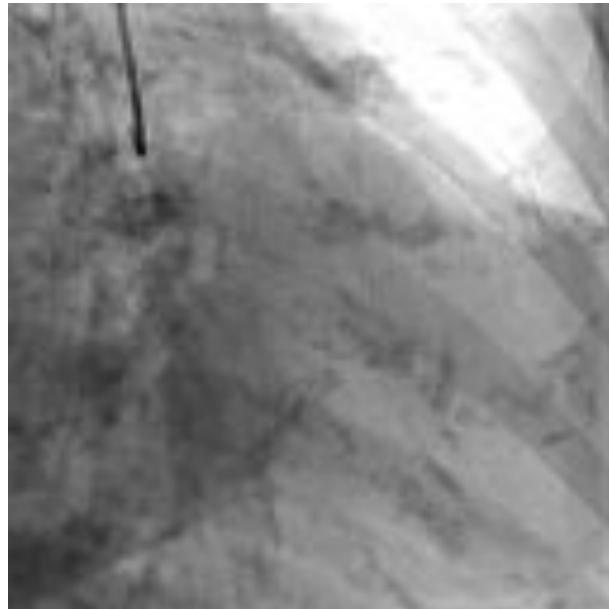
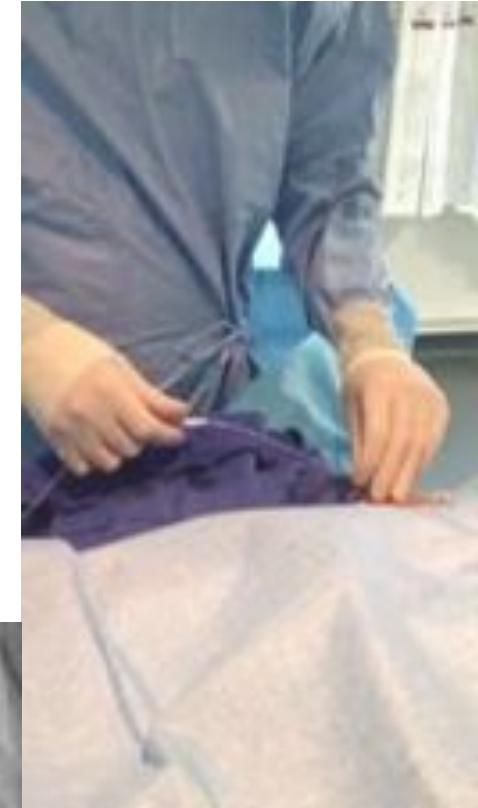


Torque horaire forcé



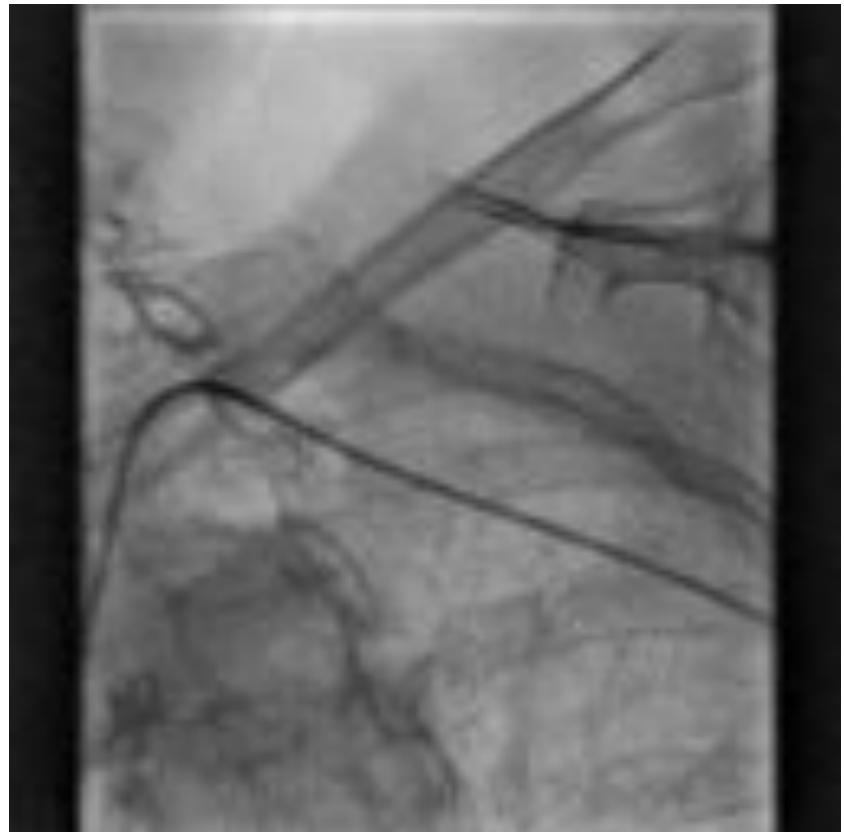
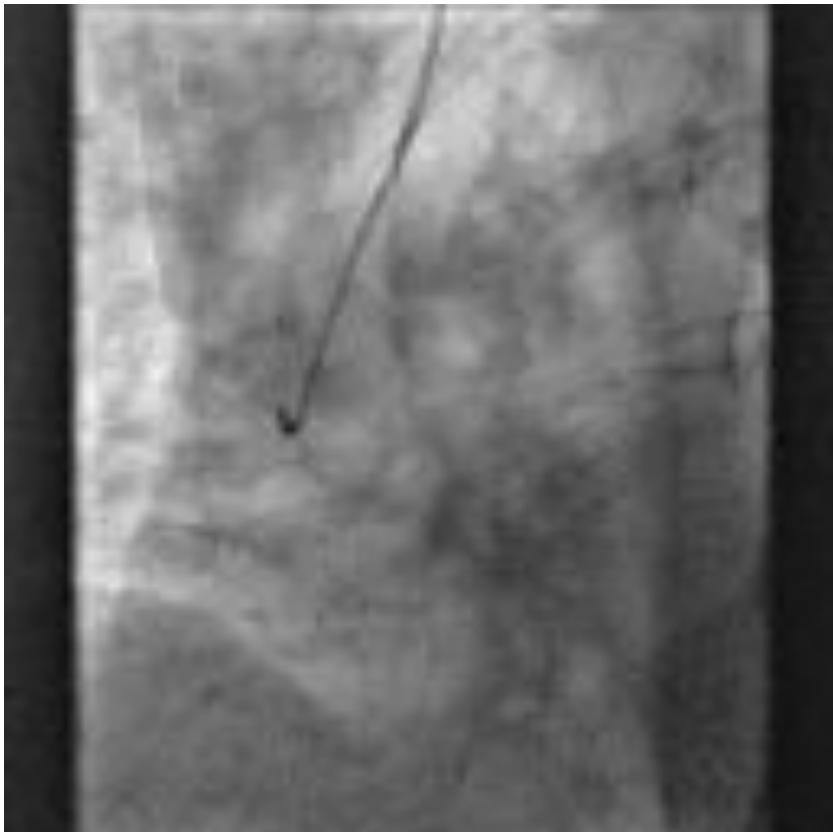


Torque anti-horaire

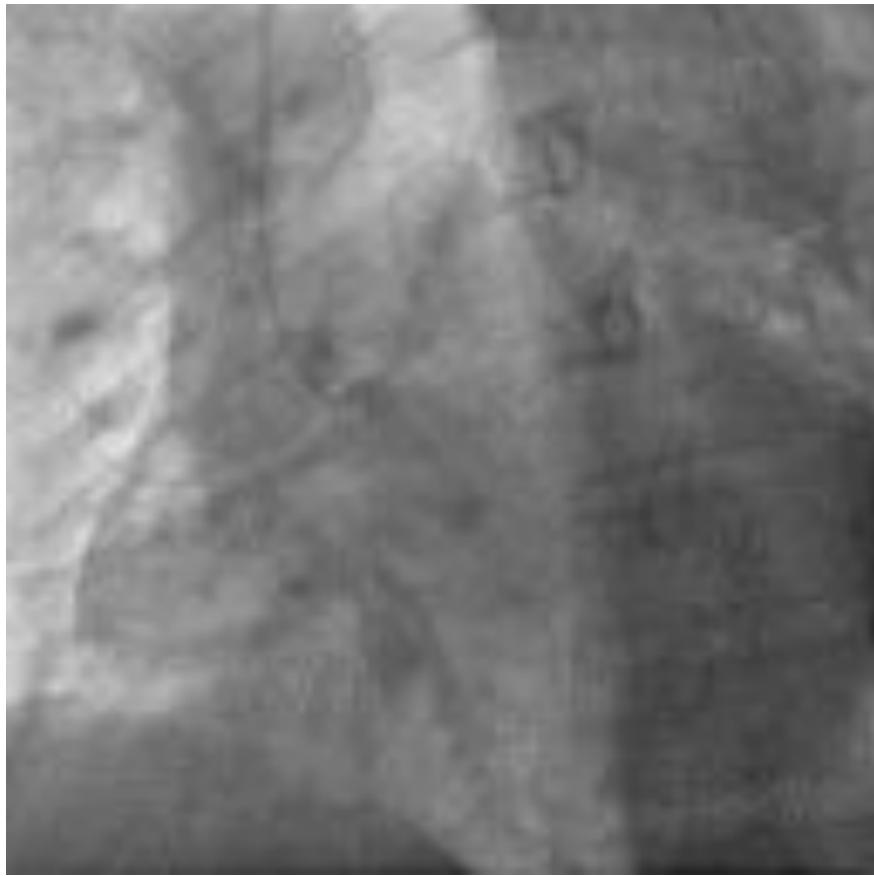


Légère traction pour co-axialité

En radiale gauche ?



Attention : sonde rigide, guide en place et torque modéré

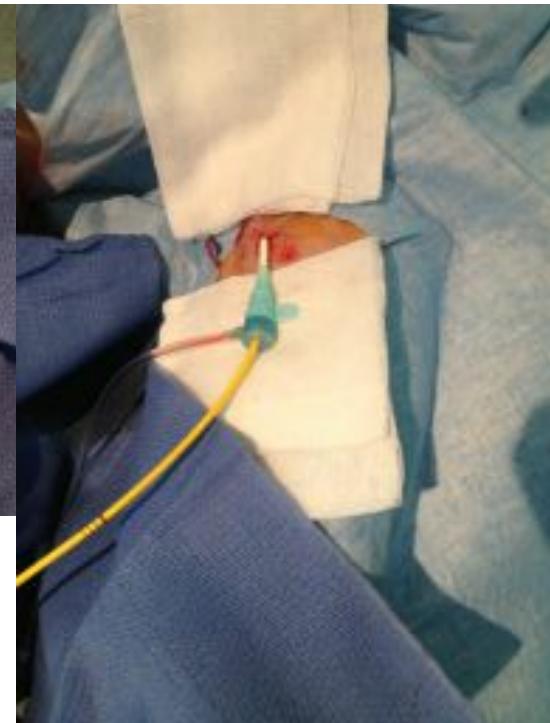


Le Kt complet par radiale/basilique

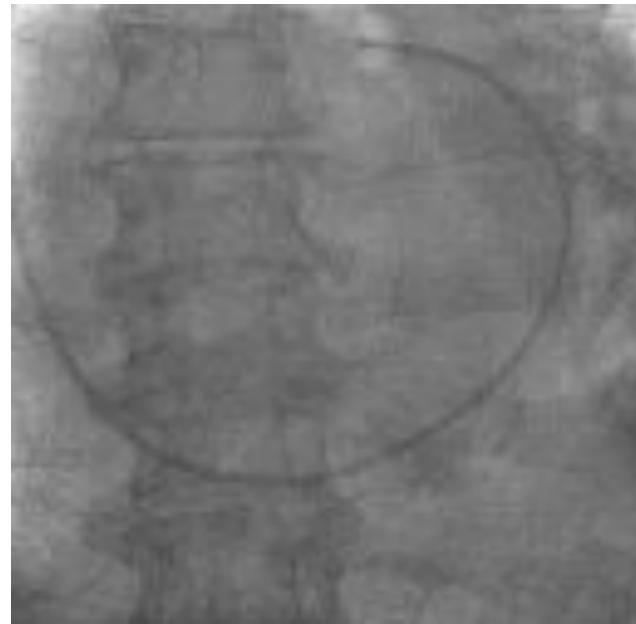
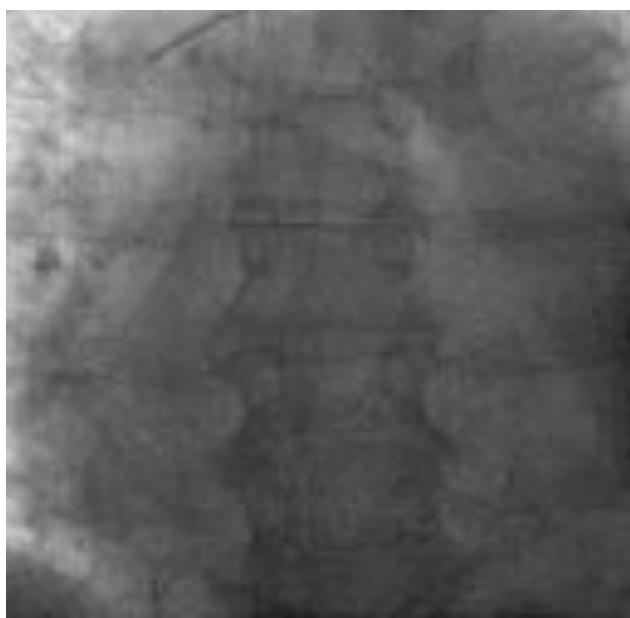
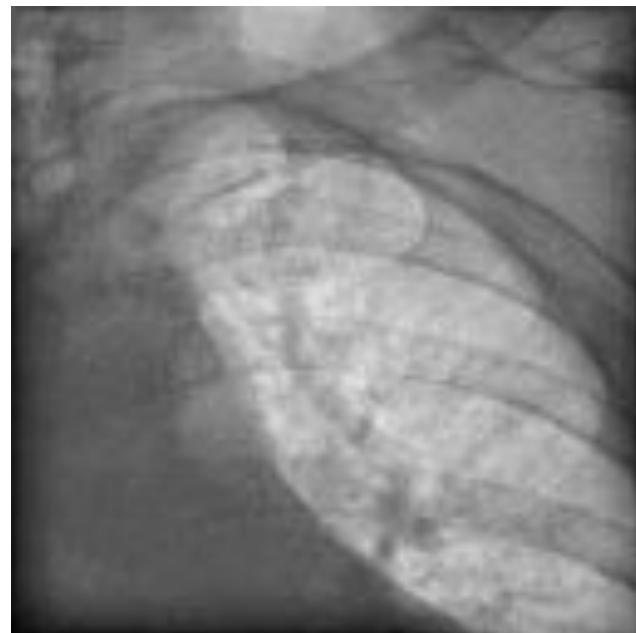
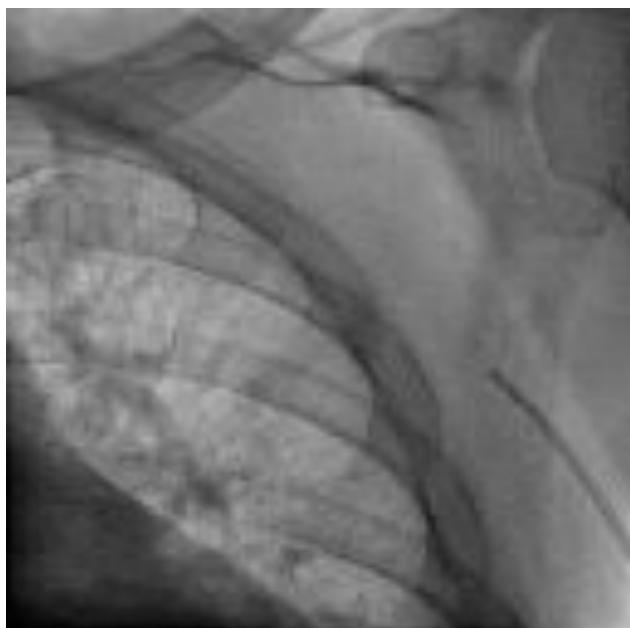
- **Basilique**

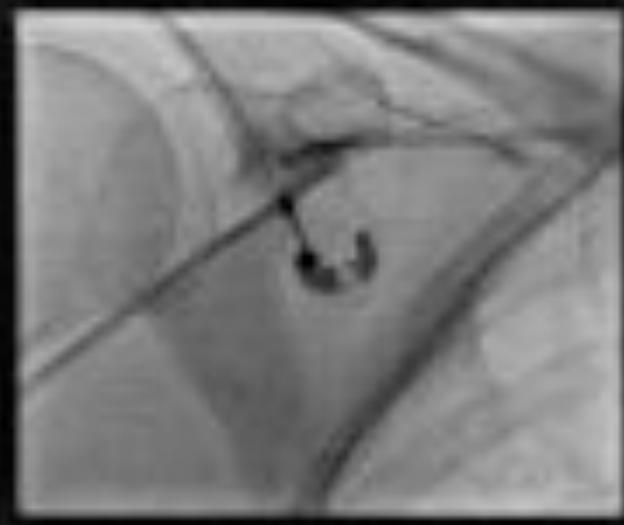
- Avantages :
 - simplicité ponction
 - facilité de progression dans cœur
 - limitation du risque hémorragique
 - limitation des rayons X/fémorale
(femme enceinte)
 - lever immédiat (HDJ)
- Inconvénients : Difficulté progression au niveau sous-clavière (guides, injections...)

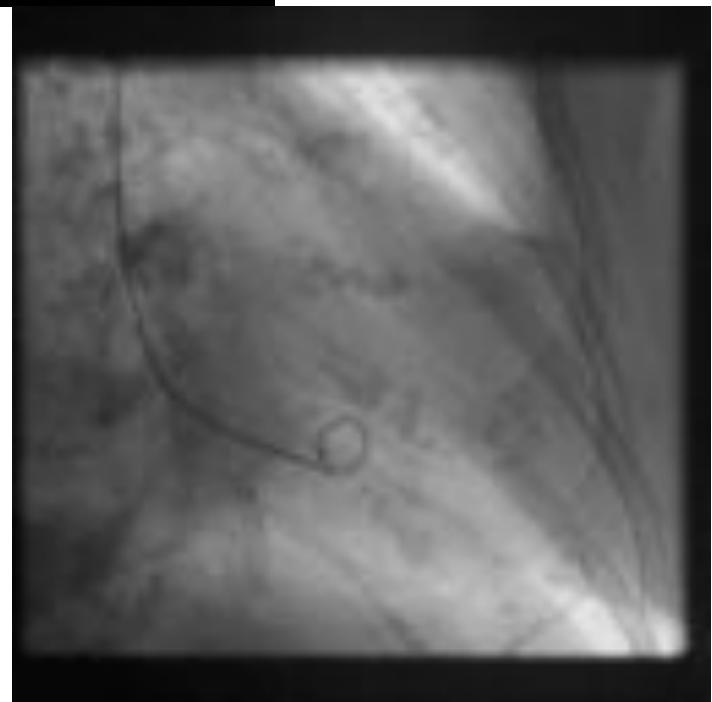
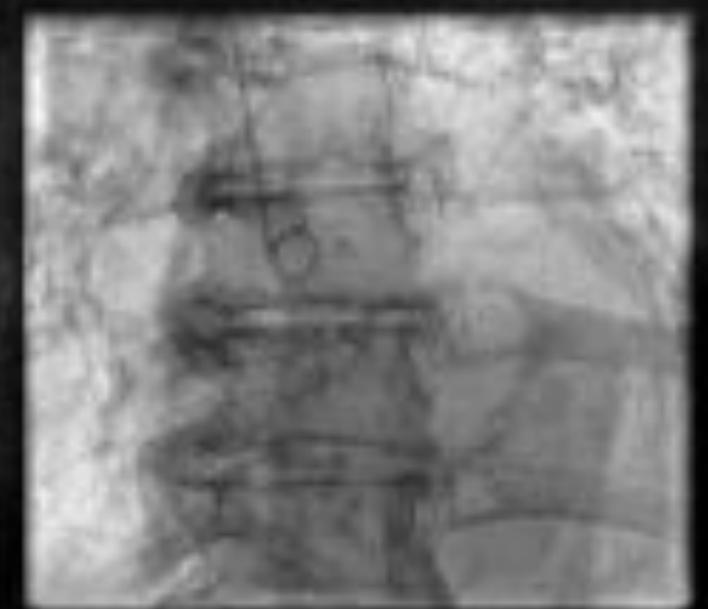




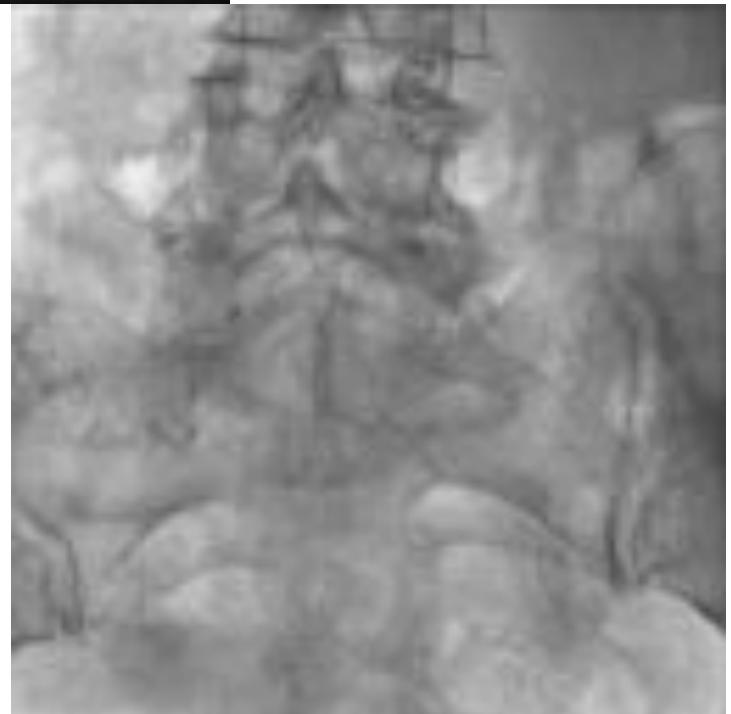
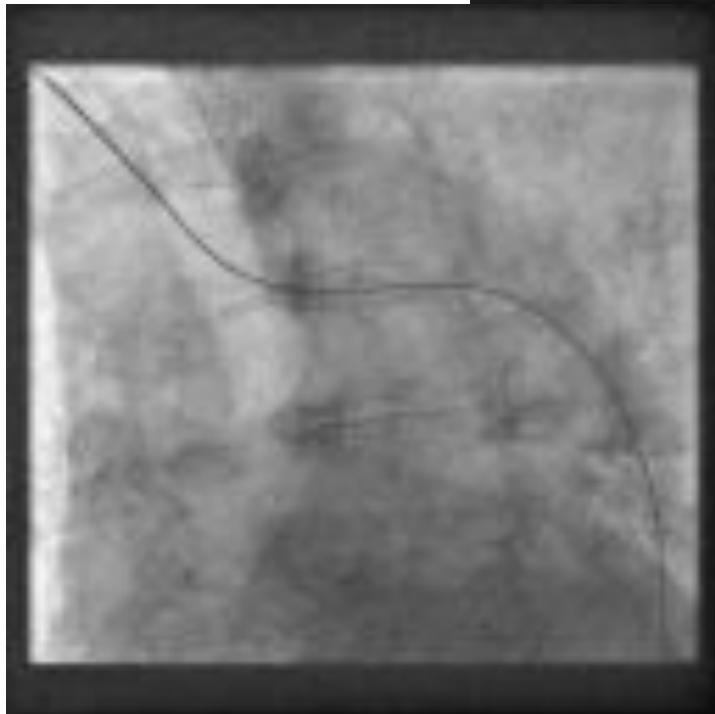
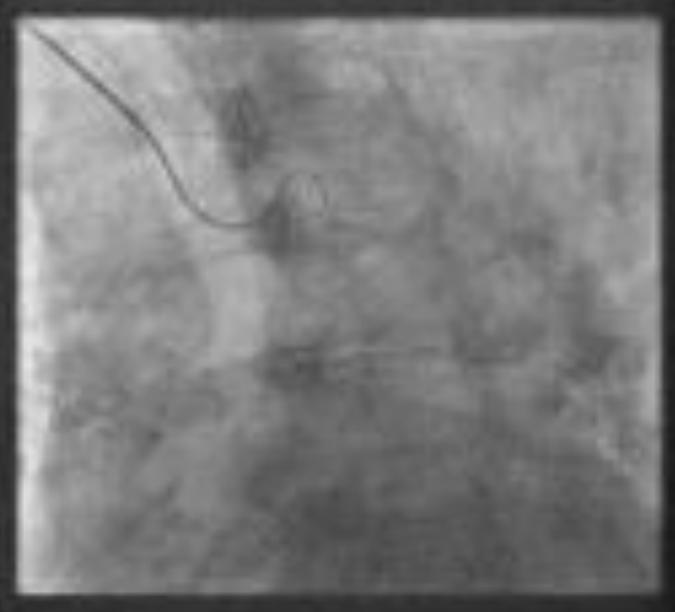
Passage kt et gonflage ballon à 50cm







Pigtail
longue
125 cm



Coronarographie diagnostique

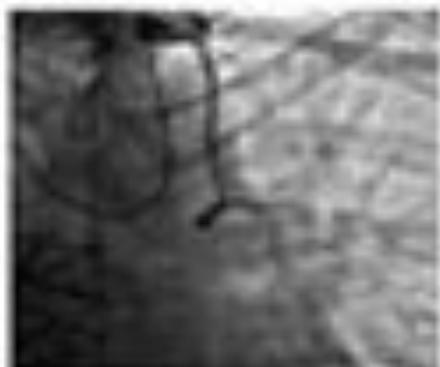
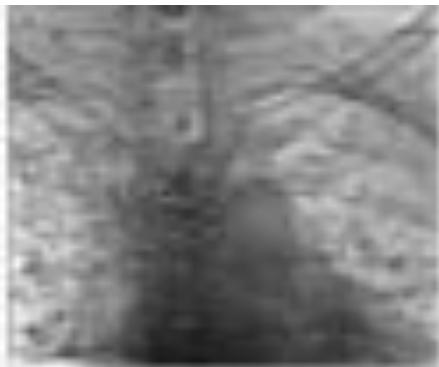
- Cas complexes
- Radiale droite-mamaire gauche...

Catheterization and Cardiovascular Interventions 80:316–320 (2012)

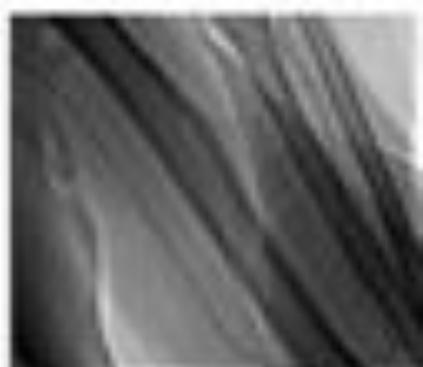
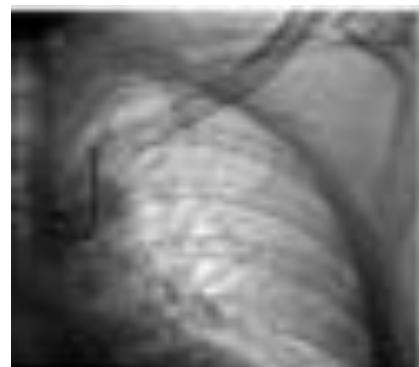
Cannulating LIMA Graft Using Right Transradial Approach: Two Simple and Innovative Techniques

Tejas Patel,^{1,2*} MD, FACC, FSCAI, Sanjay Shah,^{1,2} MD, and Tejan Patel,³ MD, FACC, FSCAI

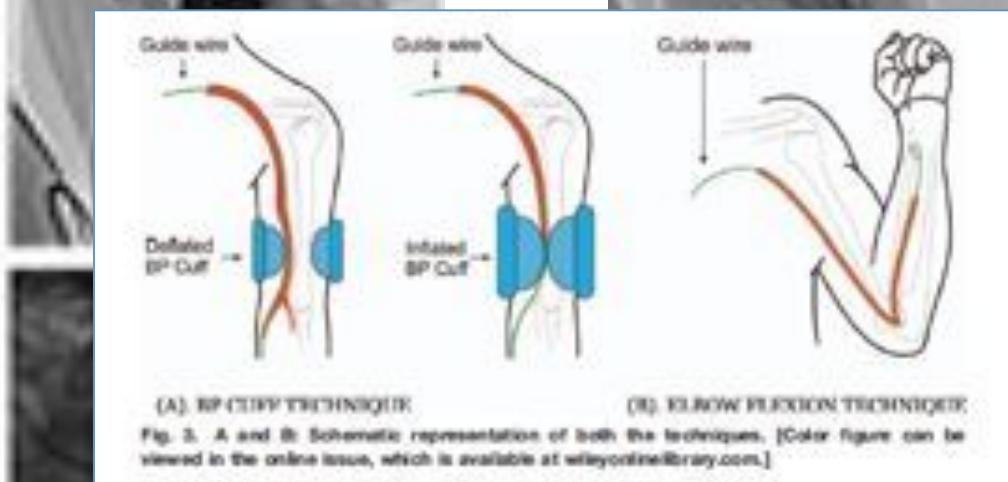
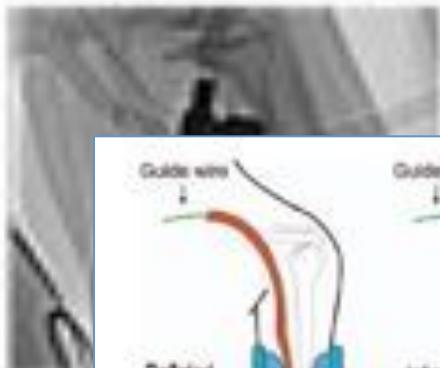
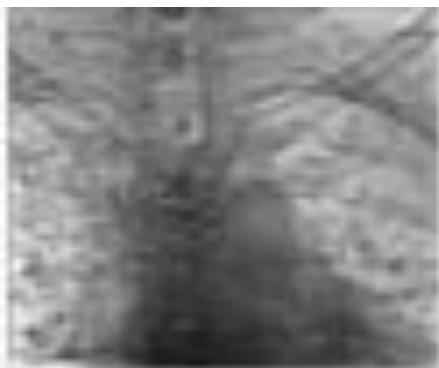
Brassard pression



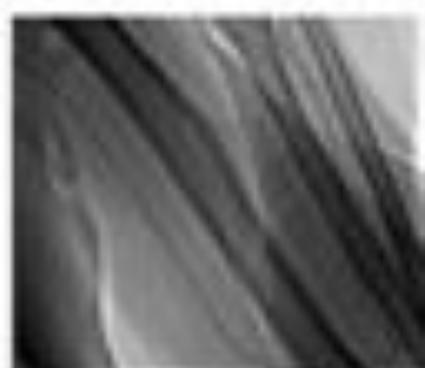
Flexion du coude



Brassard pression



Flexion du coude



Catheter d'angioplastie : la base

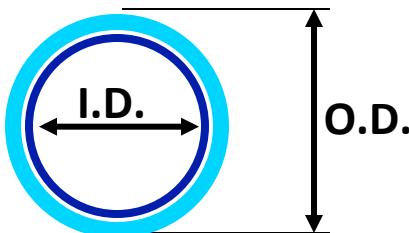
- Compenser le manque de support de radial par bonne connaissance anatomique et concept des sondes d'approche

Regardless of the specific catheter, 5 other factors determine backup support!

Factors:	Determinants :
1. Catheter size	Not relevant when comparing 6F catheters

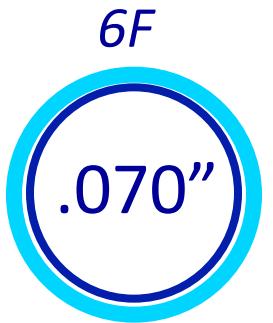
Catheter Size: Larger Diameter gives more support

Measurements *:



Catheters are named by their OD in French:

(1 F = 0.33 mm)



Larger Diameter

Advantages

- More Torque
- More Support
- More Strategies possible

Disadvantages

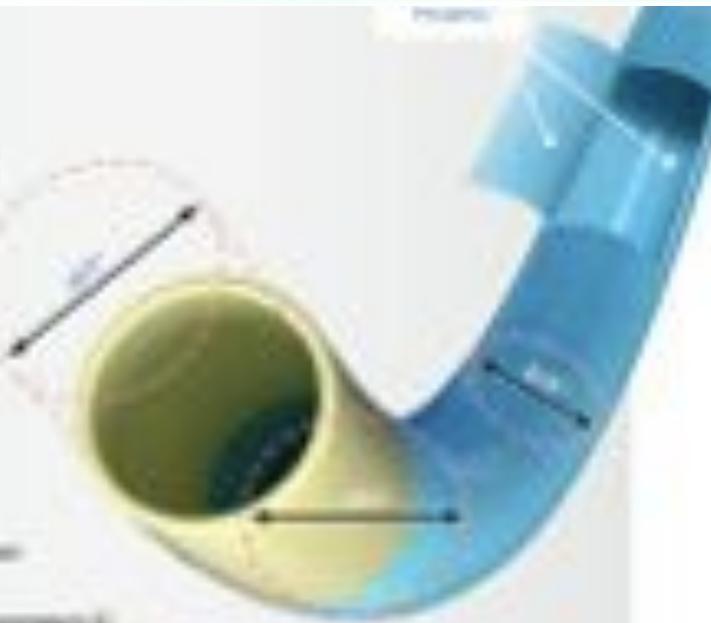
- Larger Puncture
- More contrast use

- Outer Diameter (OD) vs. Inner Diameter (ID) also known as Inner Lumen (IL)
- Note: ID referent to VISTA BRITE TIP® Guiding Catheter

Cordis ADROIT™ Guiding Catheter – 6F

Designed with **LARGEST INNER DIAMETER**

- 6F 12 Fr inner bore compatible with standard interventional guidewires
- Larger lumen for percutaneous balloon angioplasty
- Innovative hydrophilic coating reducing catheter torque when applying high pressure
- PTFE coating provides lubricious catheter for smooth delivery
- Dual-layer™ technology allows connection & disconnection for greater convenience



Meeting National Invention Standard

SIZE	ASPIRED*	LAUNCHED
6F	12 Fr	12 Fr
7F	14 Fr	14 Fr
8F	16 Fr	16 Fr
9F	18 Fr	18 Fr
10F	20 Fr	20 Fr
11F	22 Fr	22 Fr
12F	24 Fr	24 Fr

Superior Control, Reduced Lead Times*



Regardless of the specific catheter, 5 other factors determine backup support!

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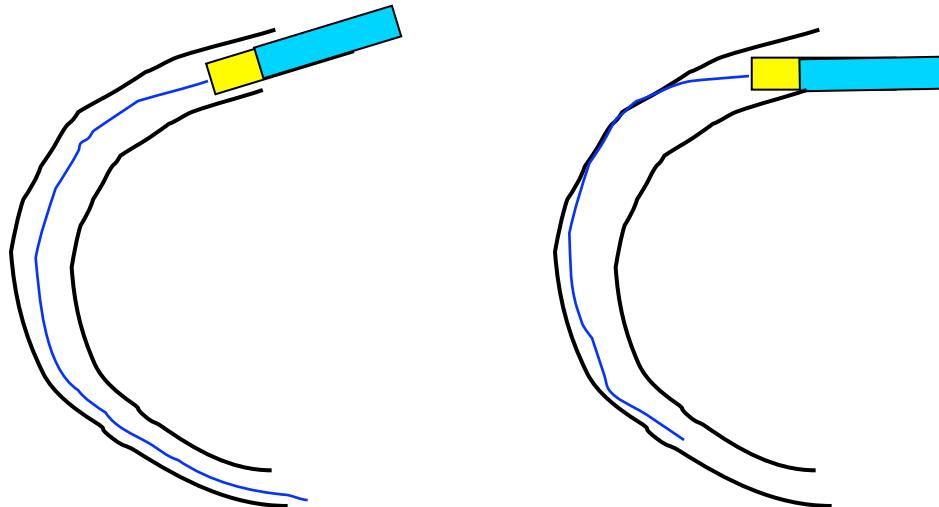
Shape

Coaxial Tip Alignment

- Why is this important?

Coaxial or parallel alignment of the catheter will affect how well the guide catheter operates as a conduit

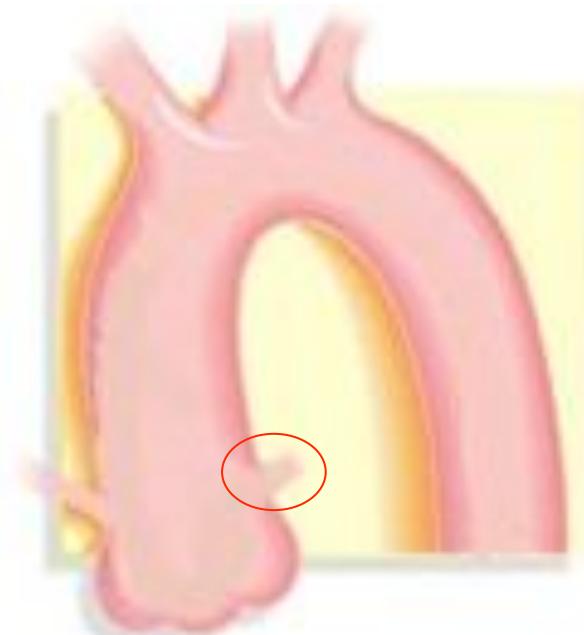
Reduces risk of catheter induced trauma and optimizes support

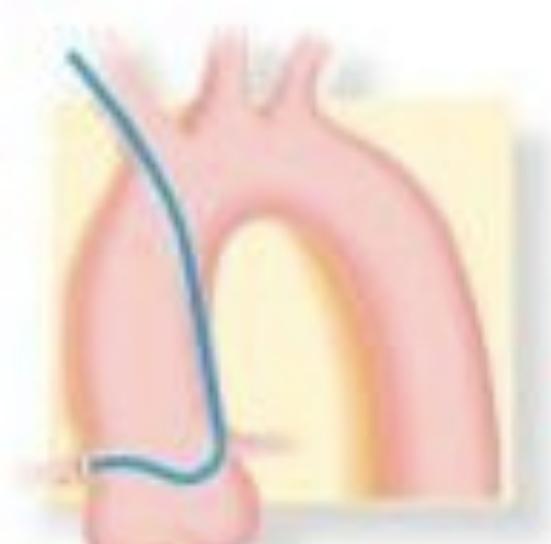
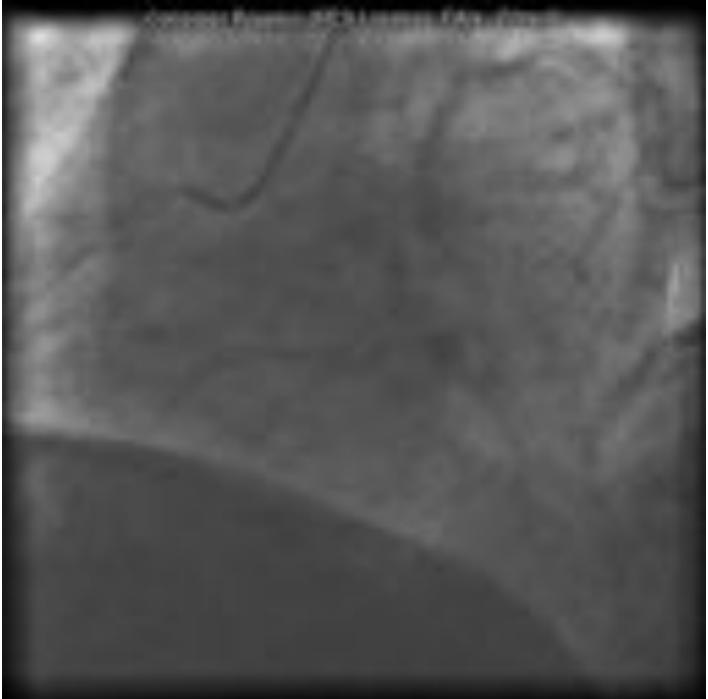


Vessel “Take Off”

The angle that the Right Coronary Artery (RCA) or Left Coronary Artery (LCA) comes off the aorta

Superior, Inferior, Posterior, Anterior

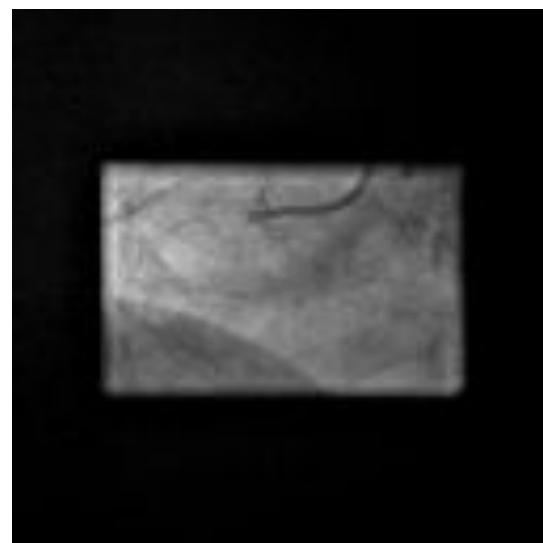
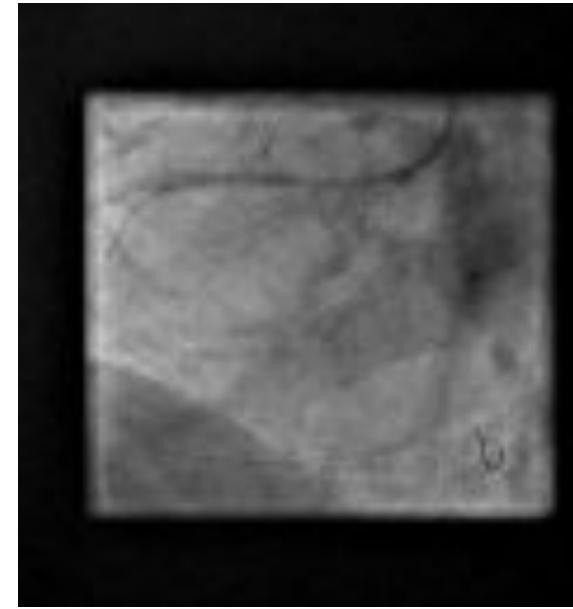
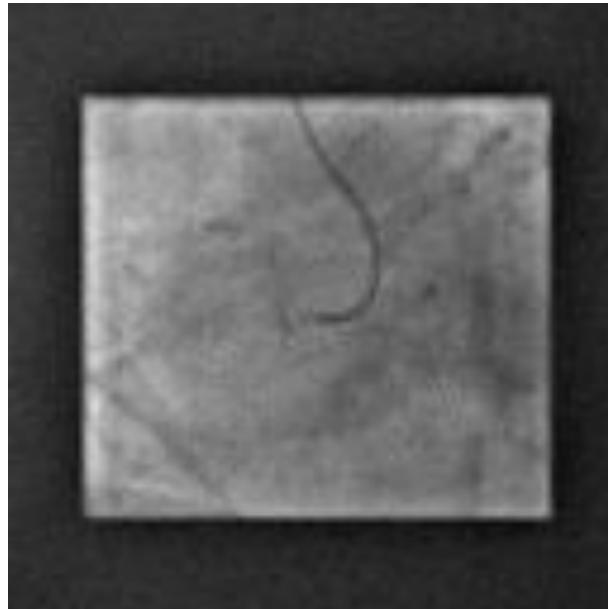
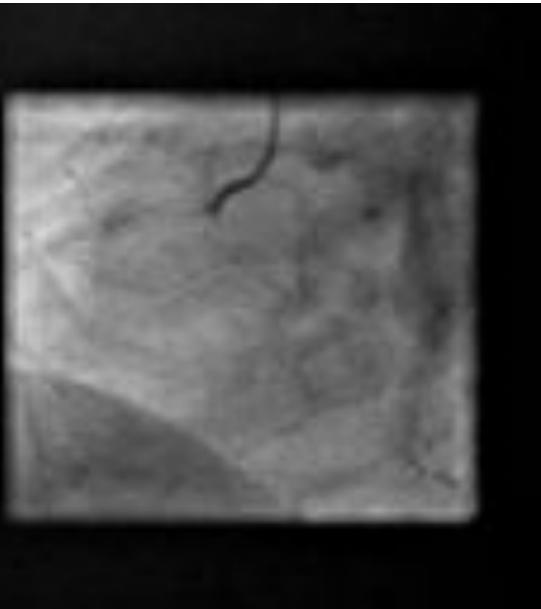




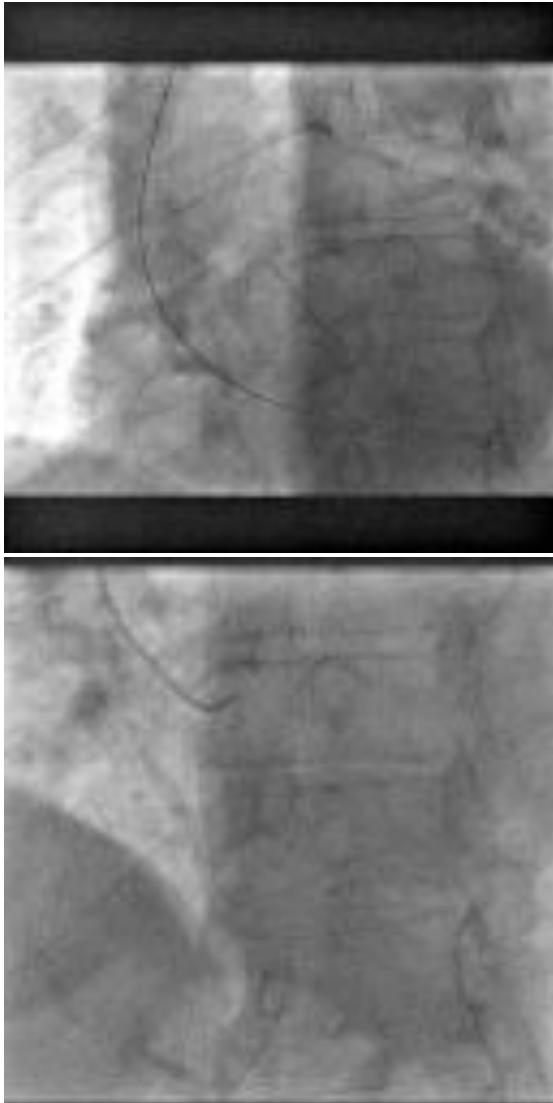
TRANSRADIAL

XBRCA

XBRAC



Coaxialité sonde gauche pour CD :



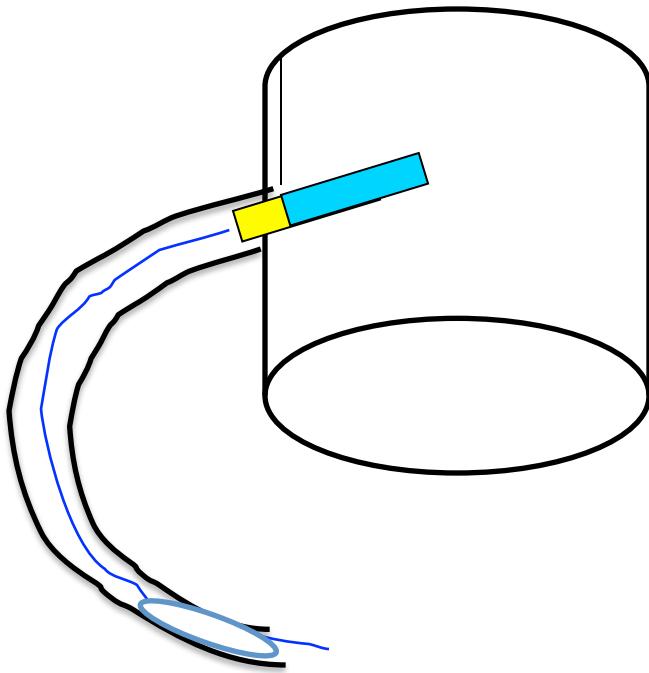
Regardless of the specific catheter, 5 other factors determine backup support!

Factors:	Determinants :
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3. Deep-seating of catheter into the vessel ("Active Support")	A function of the operator behavior

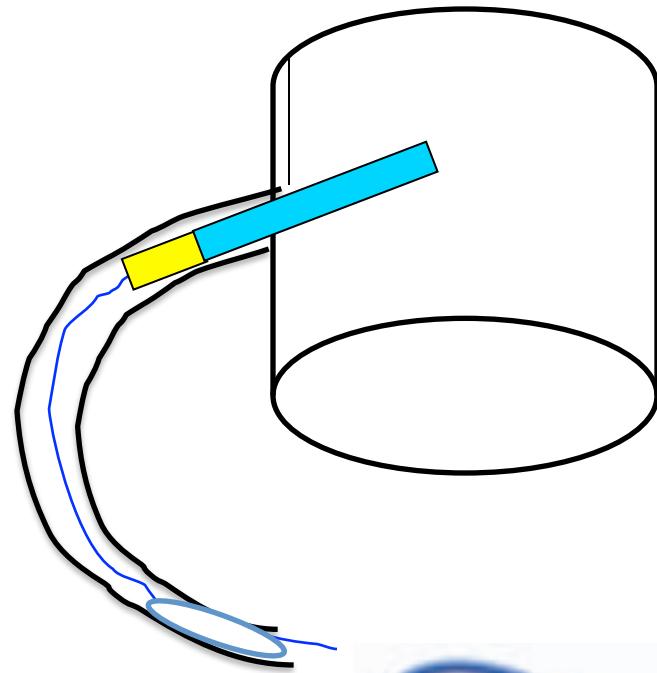
Shape

Deep-seating for active users

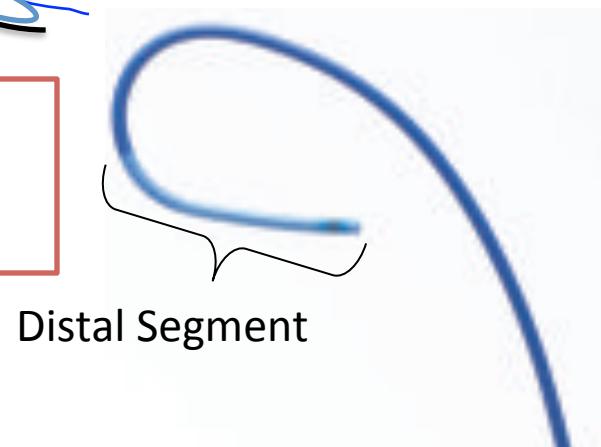
Passive Support



Deep-seating for Active Support

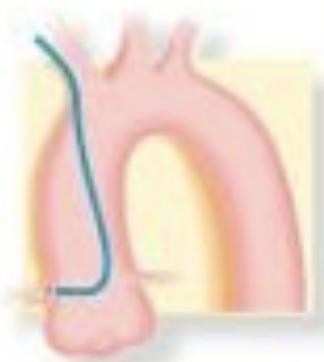


Physicians who deep seat their catheter, often prefer a softer catheter, so as to reduce the chance for ostial damage.



Distal Segment

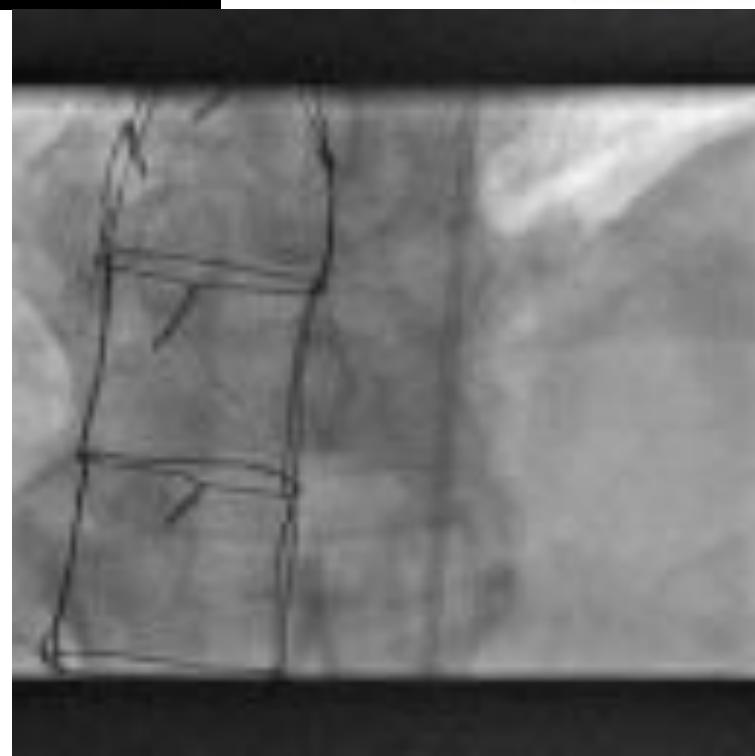
Hockey stick HS curve



TRANSRADIAL



FEMORAL



- JR4 intubation profonde
 - Torque horaire + avancer sonde
- AL 0.75 pour radiale droite

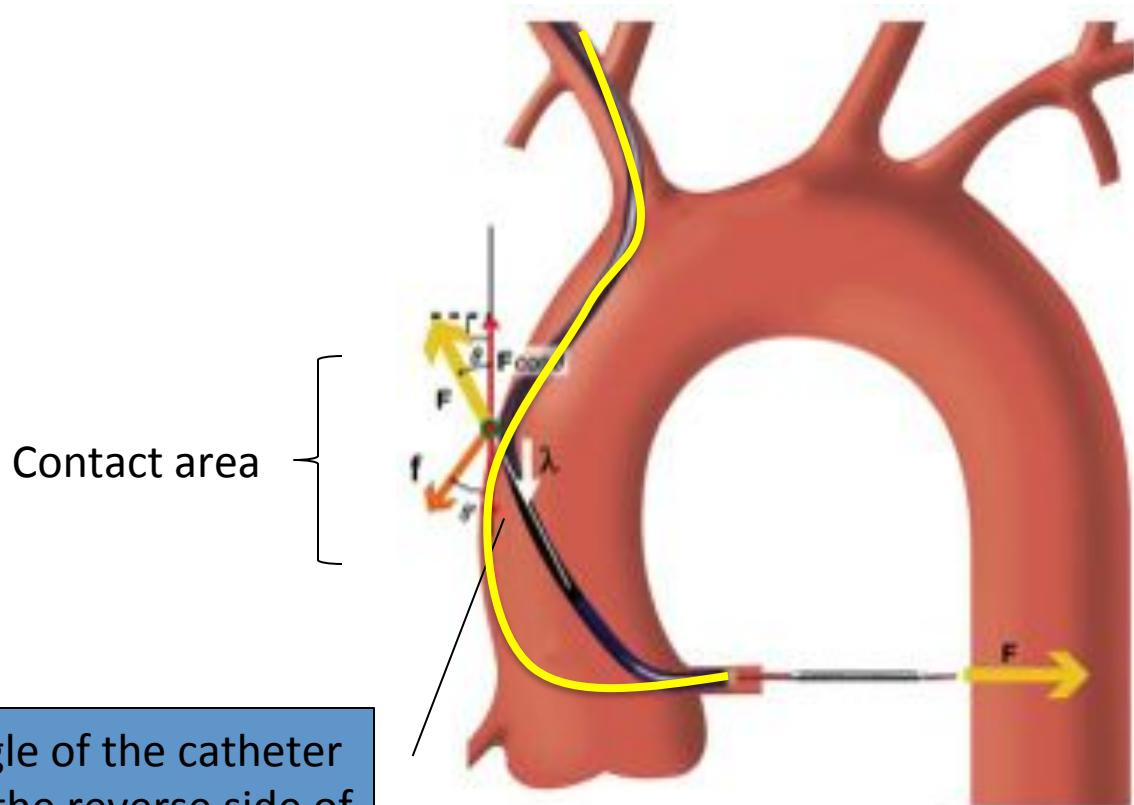
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4. Angle of the catheter on the reverse side of the aorta	A function of the shape in the anatomy

Shape
Shape

Angle and Contact Area

The power equation at the point of catheter contact on the reverse side of the aorta:
Shapes that provide more contact area and larger Theta angle give more support (yellow line)



Regardless of the specific catheter, 5 other factors determine backup support!

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4. Angle of the catheter on the reverse side of the aorta	A function of the shape in the anatomy
5. Contact area	A function of the shape in the anatomy
6. Catheter Materials	A function of the GC brand

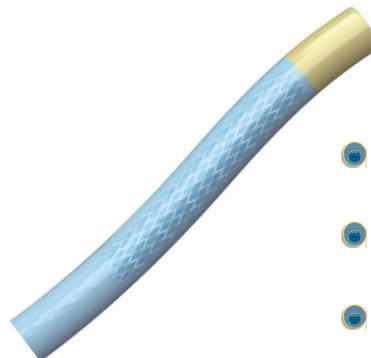
Cordis VISTA BRITE TIP® Cathéter Guide



- Conçu pour apporter support et performance
- Du 5F au 9F
- Large gamme de courbures
- Longueurs 90 -100 – 125 cm



Cordis ADROIT™ Cathéter Guide – 6F



- Une très large lumière
- Un support optimisé
- Large gamme de courbures
- Longueurs 90 -100 – 125 cm





innovative hybrid design features
two different types of wire from

Engineered with

INNOVATIVE HYBRID BRAIDED WIRE TECHNOLOGY



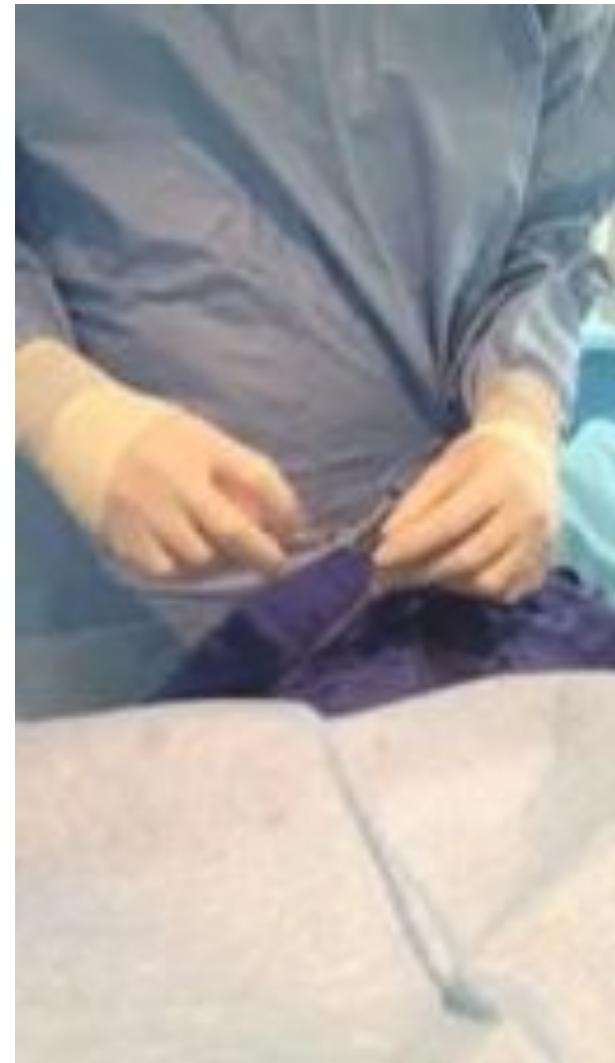
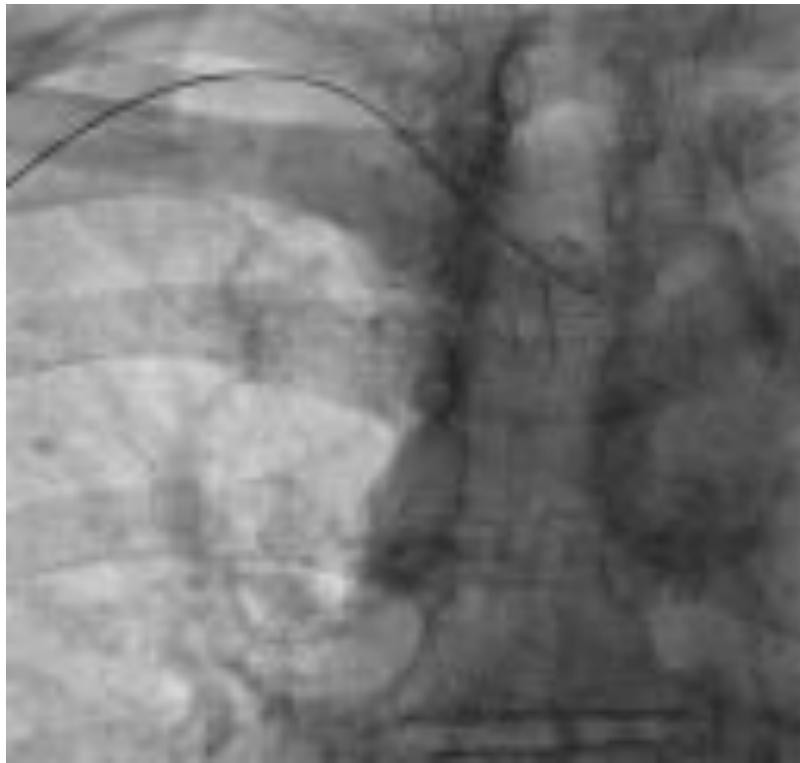
Shape Comparison

	Reference	Medtronic	Coronix	Boston Scientific	Terumo
Femoral LCA	JL4	EBU 3.5-3.75	XBL 25-3.5 XBC 25-3.5 XBLAD4	VL3.5 Q4	BL3.5
Femoral RCA	JR4	RBU 3.5	XBRCA XBR	ART 3.5	
Radial LCA	JL3.5	EBU 3.5-3.75	JFL RB XBL 25-3.5 XBC 25-3.5 XBLAD4	Muta Left 4 Kinny VL3.5	Ikari Left 3.5
Radial RCA	JR4	MAC 3.5 RRAC	RRAD6 (XR) JFR Barbeau RB	Muta Right 2 Kinny	Ikari Right 3.5 Ikari Left 4

* Adapted from Percutaneous Interventional Cardiovascular Medicine - The PCR-EAPCI Textbook Volume II, 2012 – 978-2-913628-63-2

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Guide dans Kt avec valve



Sheathless femoral



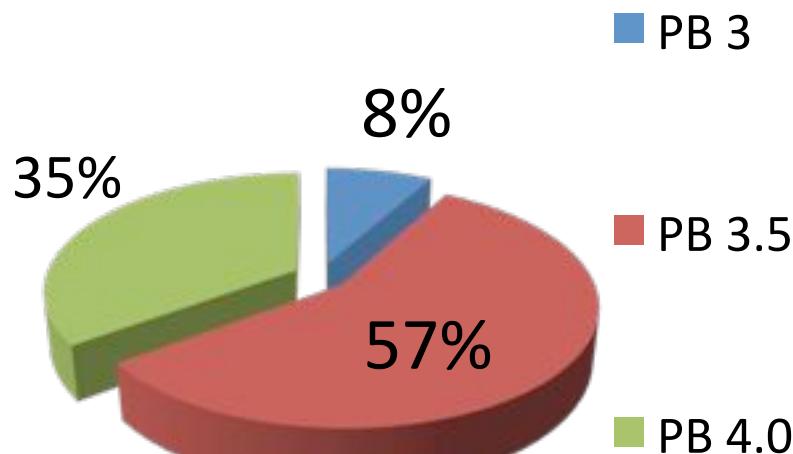
- Support
- Orientation avec introducteur

Expérience Clinique St hilaire

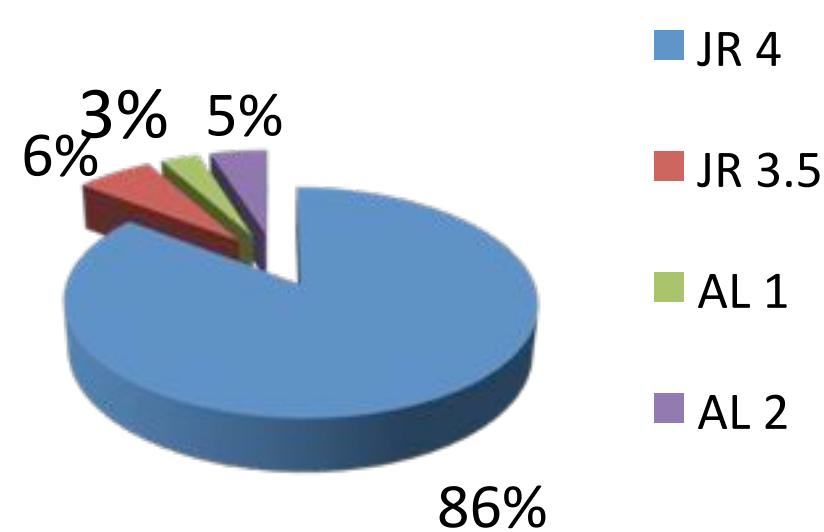
Number of patients	202
Number of catheters	225
Homolateral switch for inadequate sizing	16
Appropriate switch for right and left PCI	7
Number of appropriately used catheters	209 (225 – 16)
Number of right-used catheters	62
Number of left-used catheters	147
First catheterization attempt success rate	209/225 = 93%

Distribution des Sheathless finalement opérationnels (n= 210)

Répartition des sondes gauches
(n= 148)



Répartition des sondes droites
(n= 62)



RESULTATS DE L'ANGIOPLATIE

- SUCCES DE LA PROCEDURE avec SHEATHLESS
98,5 %.
- 291 Stents Implantés : 209 Réseau Gauche (4 TC)
82 Coronaire Droite
- Durée de la procédure : 36 ± 22 min.
- Dosimétrie: Scopie : $10,9 \pm 6.5$ min
Air Karma : 1434 ± 1136 mGy

SECURITE du SHEATHLESS

- COMPRESSION MANUELLE : 100 %
- TEMPS DE COMPRESSION : 5.2 ± 2.4 min
- COMPLICATIONS HEMORRAGIQUES MAJEURES Dont Transfusions :
0
- COMPLICATIONS MINEURES : 3 (1.5 %)
 - Barc 2 Hématomes : 2
 - Faux anévrisme Thrombosé J 4 : 1

COMPARAISON DES COUTS DE PROCEDURE

	Femorale 6F	Sheathless	Radiale 6F
INTRO	14,35	0	16,15
KT guide	41,50	83,72	41,50
Fermeture	130	0	12
Total	168,88 €	83,72 €	69,65 €
Economie/pts :		- 85, 15 €	- 14,02 €
200 Pts :		17 000€	2800 €