

# Coronary Bifurcation Revascularization in LATAM

## *INSIGHTS FROM LATAMBif Registry*

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PI LATAMBif Registry

**Speaker's name : Lucio Padilla**

I do not have any potential conflict of interest to declare

# What do we want to answer?

- What kind of patients are we treating?
- What are the characteristics of the bifurcations that we deal with in LATAM?
- How do we approach a bifurcation PCI in LATAM?
- What are our results?

# What patients are we treating?

*Insights from LATAM**Bif** Registry*

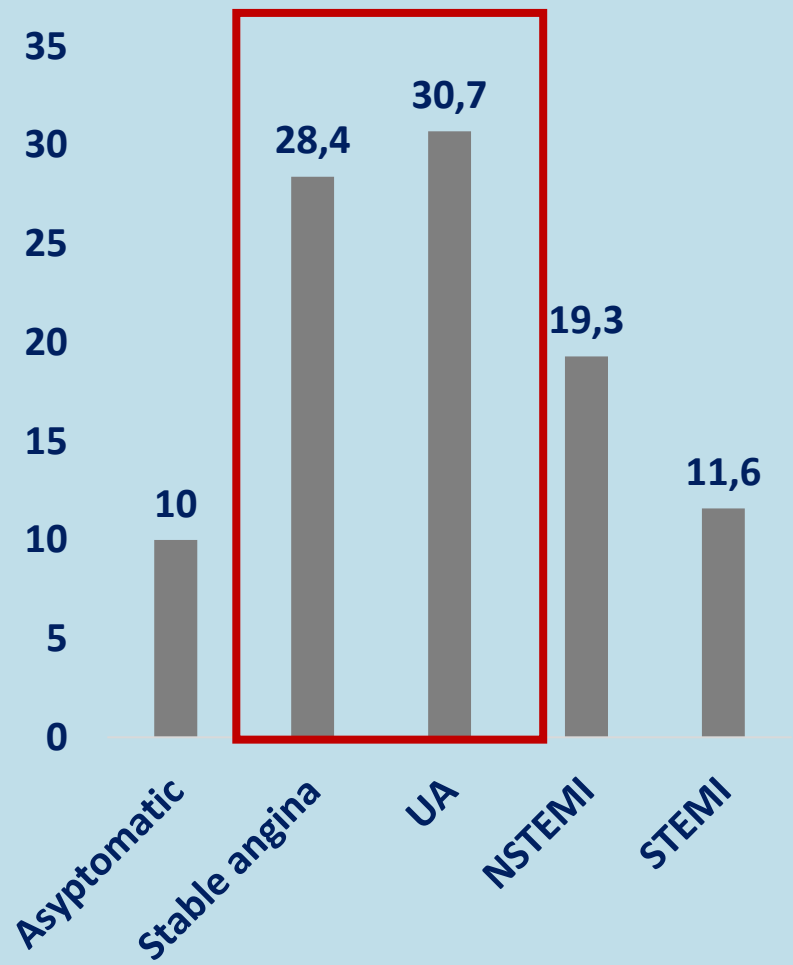
N= 2030patients

Baseline Clinical Characteristics	
Age (yrs, $\pm$ SD)	66 $\pm$ 11
Males (%)	81%
Physical measurements	
Height (cm, $\pm$ SD)	170,4 $\pm$ 9,8
Weight (kg, $\pm$ SD)	81 $\pm$ 15,1
BMI ( $\pm$ SD)	28,1 $\pm$ 9,7

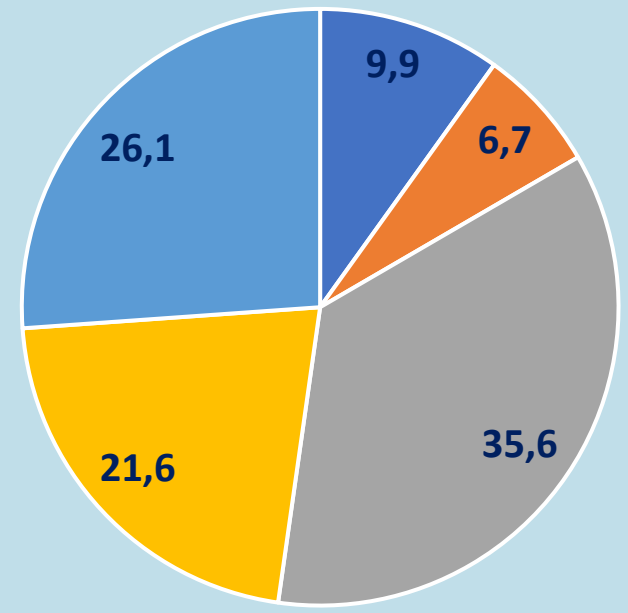
Risk Factors	
HTN (%)	84,9
Dyslipemia (%)	73,2
Current smoking (%)	14,6
Diabetes mellitus (%)	29,6
• <i>IDDM</i>	3,7
History of CVD	
Prior PCI (%)	33,3
Prior CABG (%)	3,9
Previous stroke (%)	3,6
Previous MI (%)	24,6
Atrial fibrillation (%)	6,9
PVD (%)	8,2

Ventricular function	
LVEF > 50% (%)	65,7
LVEF 30-50% (%)	27,5
LVEF < 50% (%)	6,8
Labs	
Cr (mg/dl, $\pm$ SD)	1,12 $\pm$ 0,5
Hb (gr/dl, $\pm$ SD)	13,5 $\pm$ 1,8
HTO (% , $\pm$ SD)	40,6 $\pm$ 4,9

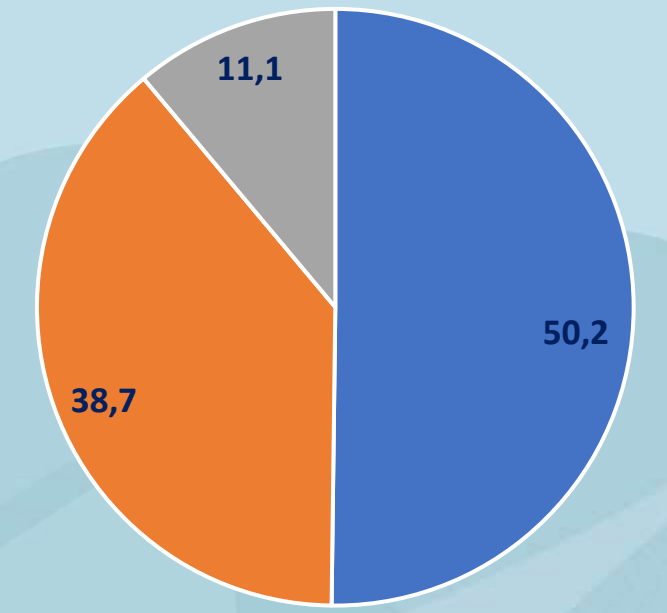
# Clinical presentation (n= 2030pts)



**CCS Angina Classification**



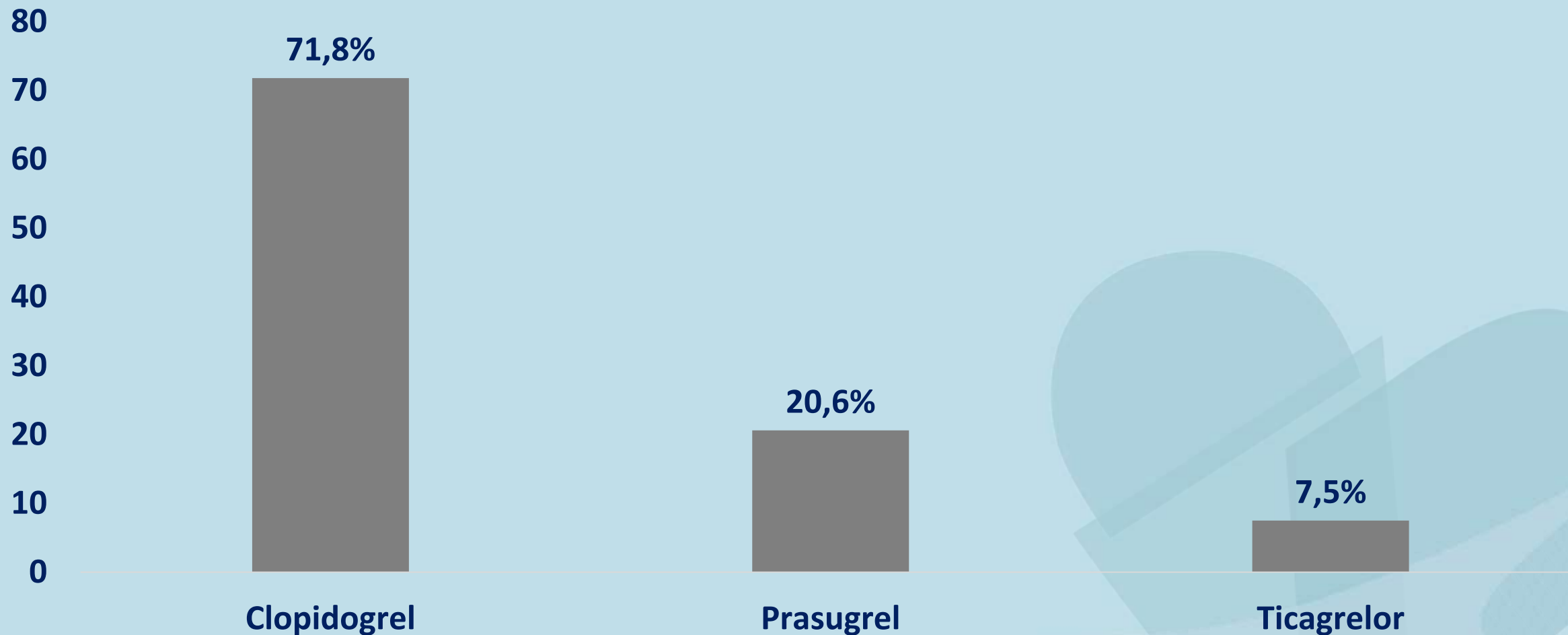
**Clinical Priority**



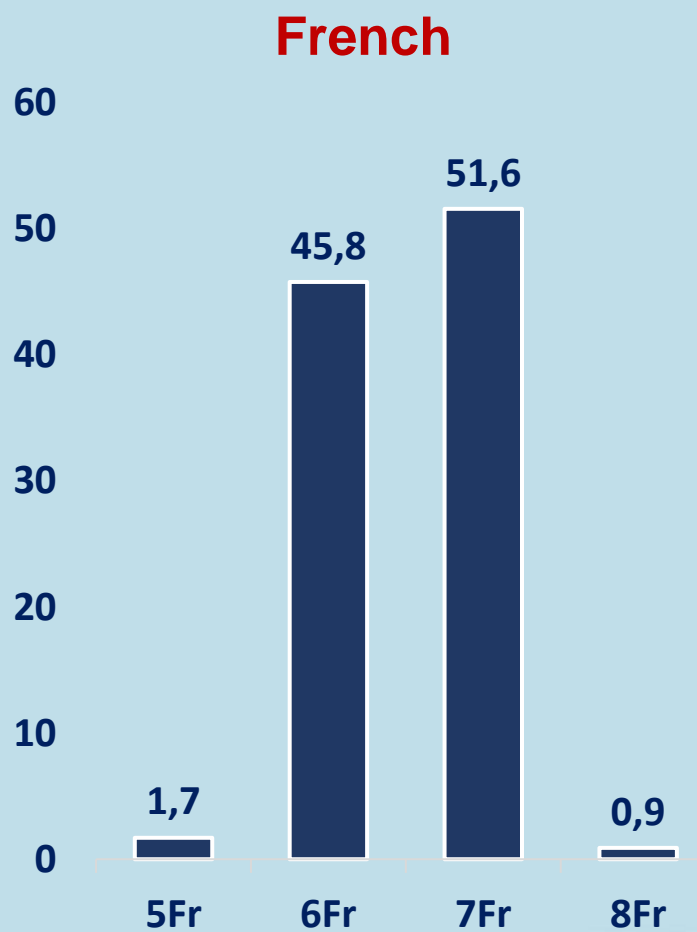
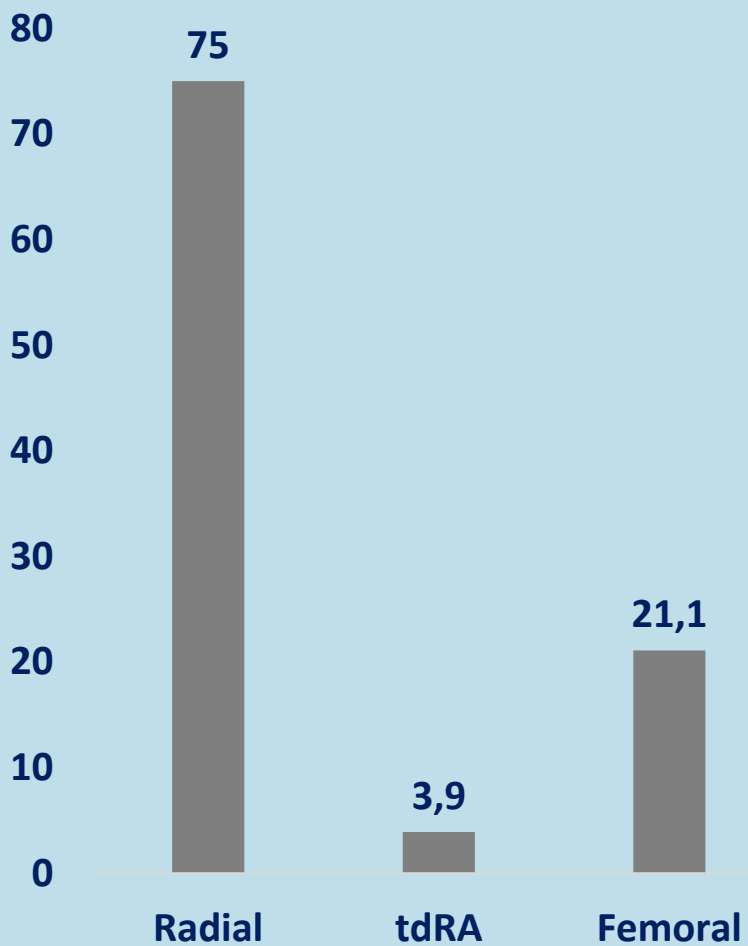
■ CCS0 ■ CCS1 ■ CCS2 ■ CCS3 ■ CCS4

■ Elective ■ Urgency ■ Emergency

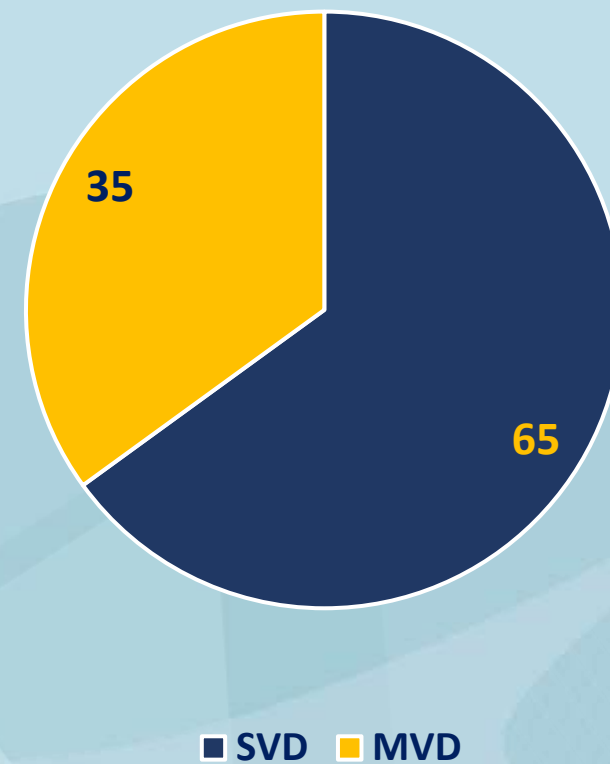
# DAPT at discharge (n= 2030 pts)



# Procedural Characteristics (n= 2030)



Multivessel Disease

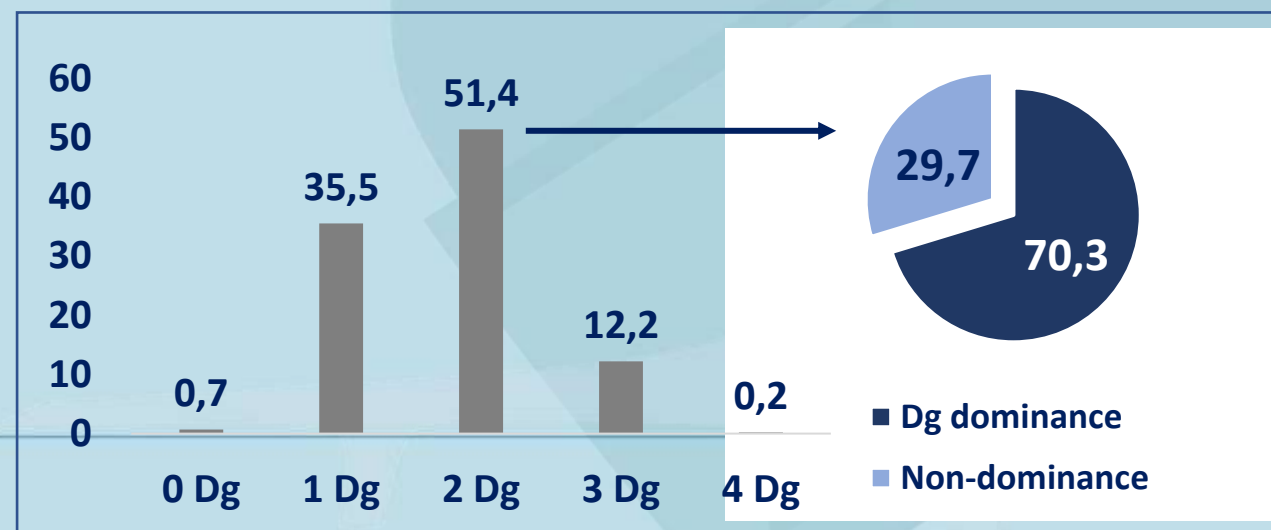
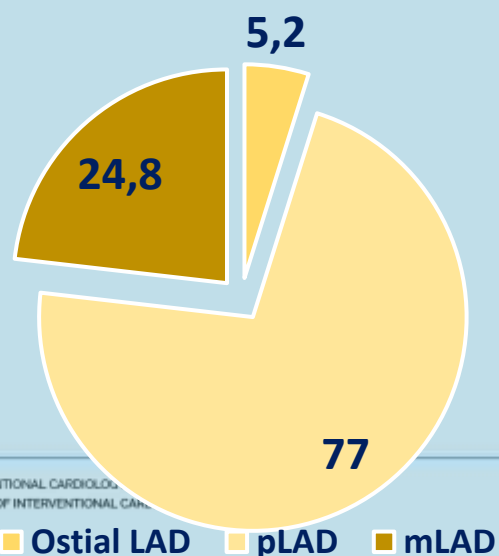
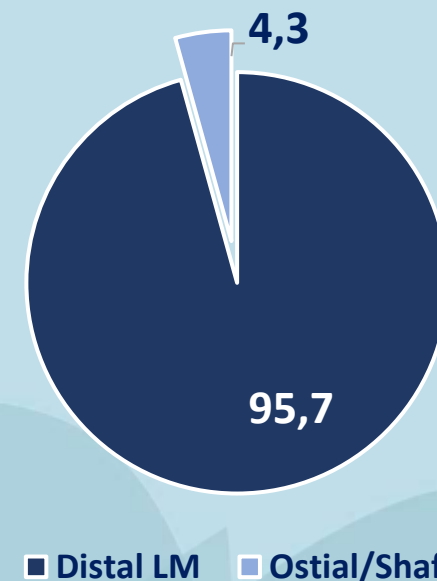
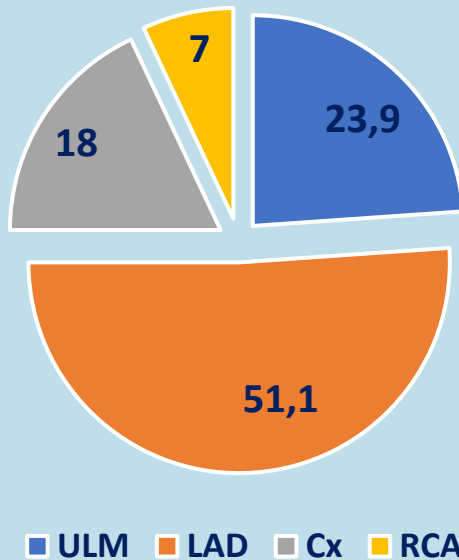
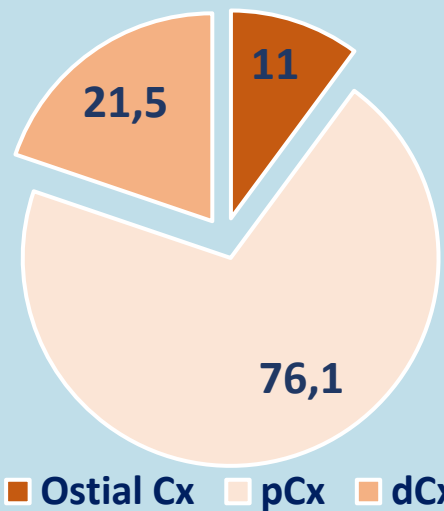




# What are the characteristics of the bifurcations that we deal with in LATAM?

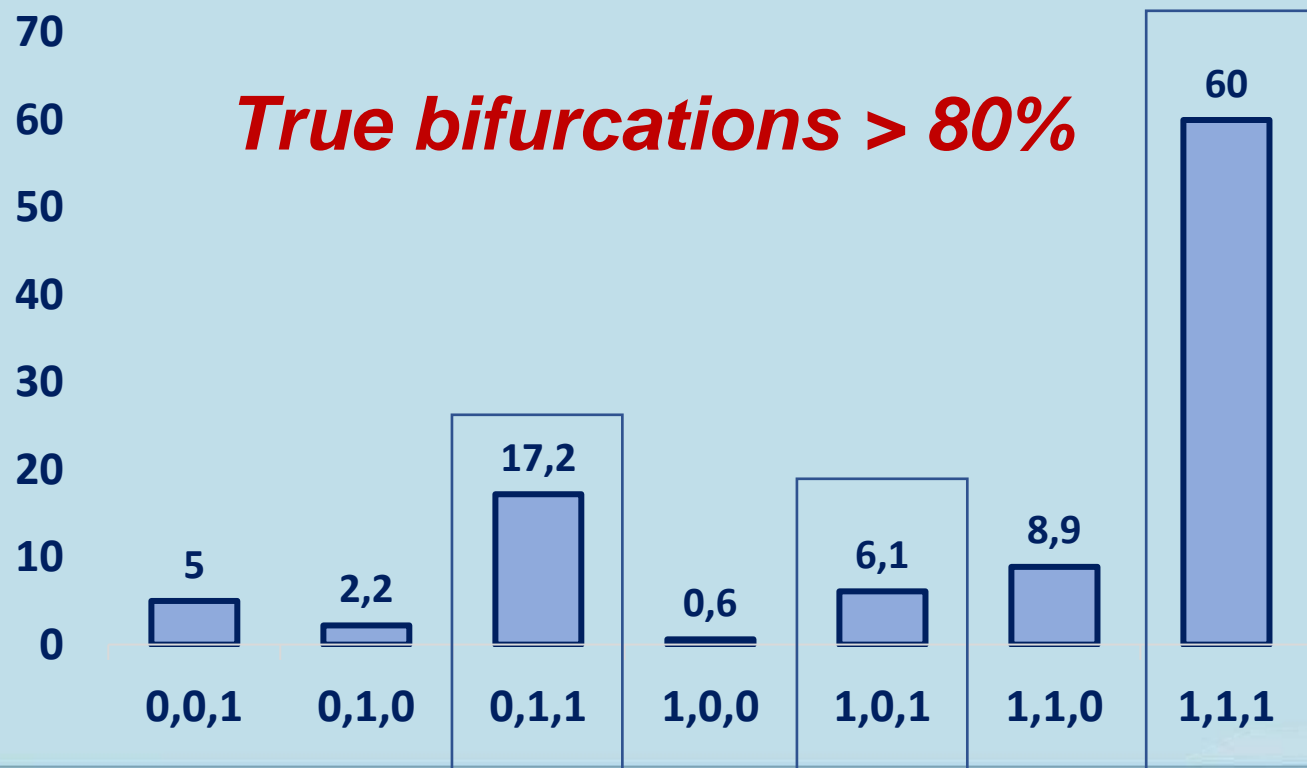
*Insights from LATAM**Bif** Registry*

# Location of bifurcation disease



# Bifurcation lesion characteristics

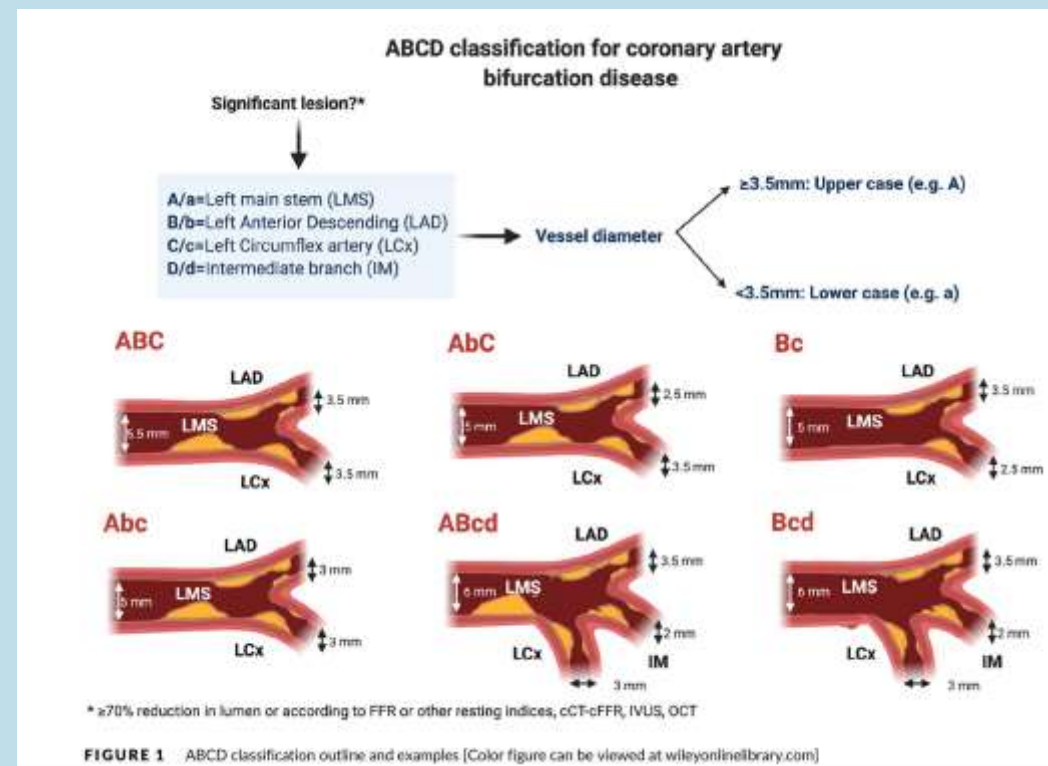
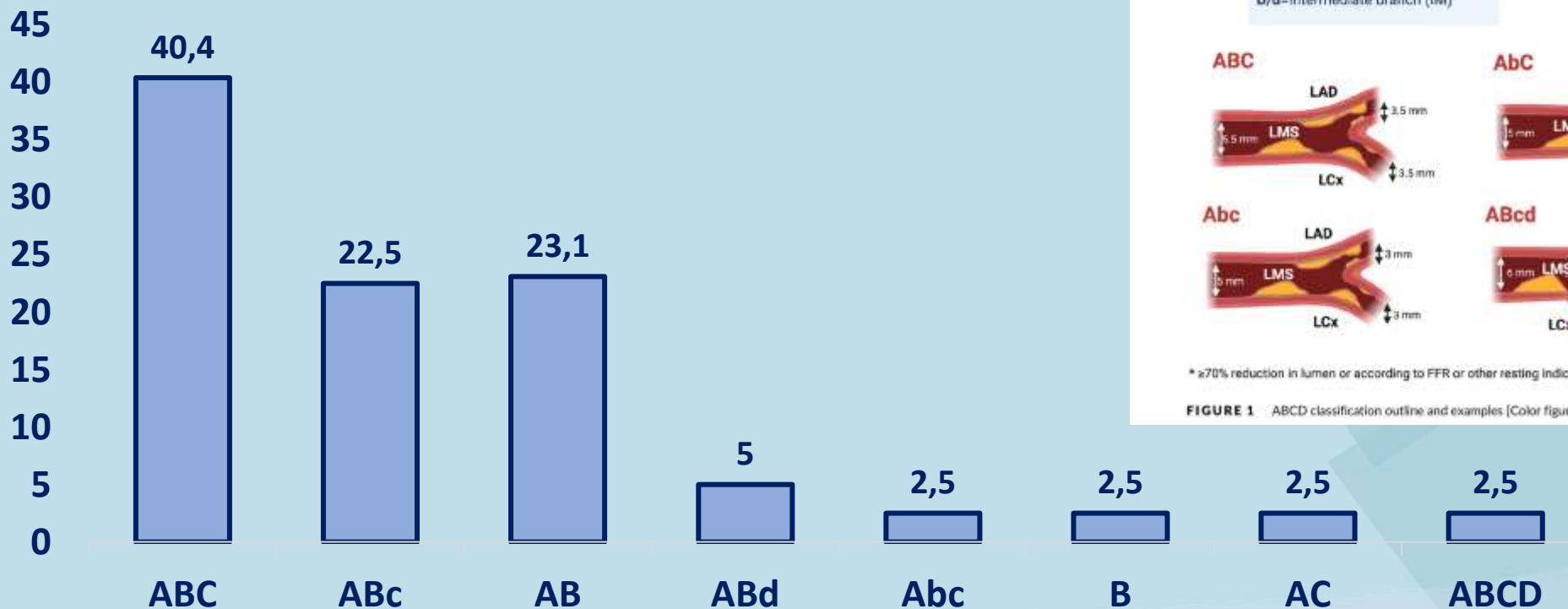
## Medina Classification



Main vessel	
pDiameter (mm, $\pm$ SD)	3,6 $\pm$ 0,7
dDiameter (mm, $\pm$ SD)	3,05 $\pm$ 0,49
Stenosis severity (%)	80,6 $\pm$ 19,5
Lesion length (mm, $\pm$ SD)	25,02 $\pm$ 16
Side Branch	
Diameter (mm, RIC)	2,5 (RIC 2,5 – 3)
Stenosis severity (%)	51,06 $\pm$ 36,16
Lesion length (mm, RIC)	10 (RIC 5 – 15)
SB length $\geq$ 73 mm (%)	84,7

# Bifurcation lesion characteristics

## *ABCD classification in ULM* (n= 476)

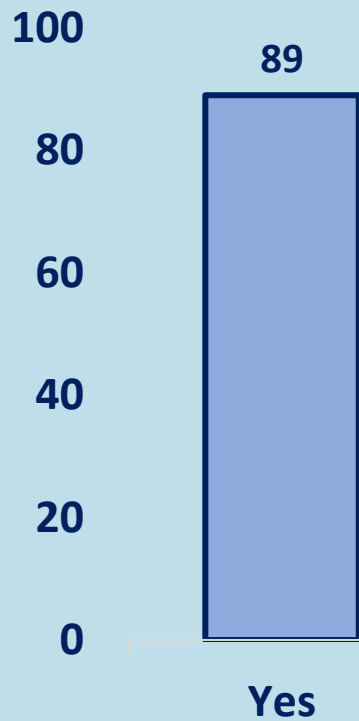


# How do we approach a bifurcation PCI in LATAM?

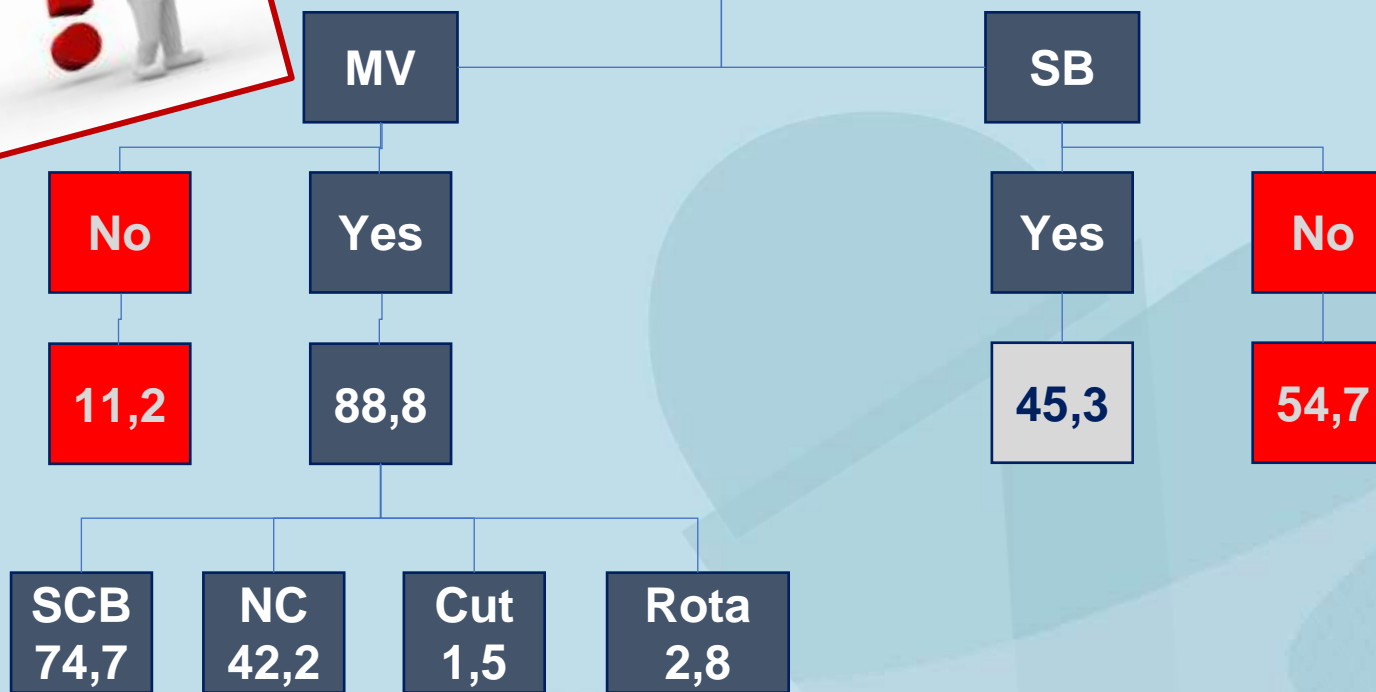
*Insights from LATAM**Bif** Registry*

# Plaque preparation

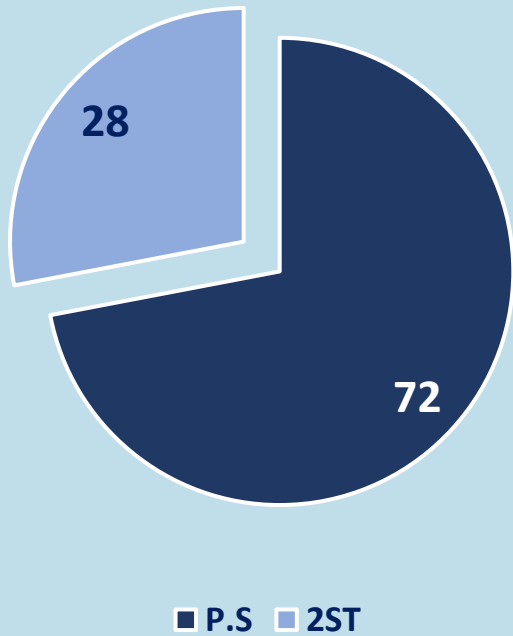
## *SB wiring*



## Plaque Preparation



# Initial strategy – Provisional stent

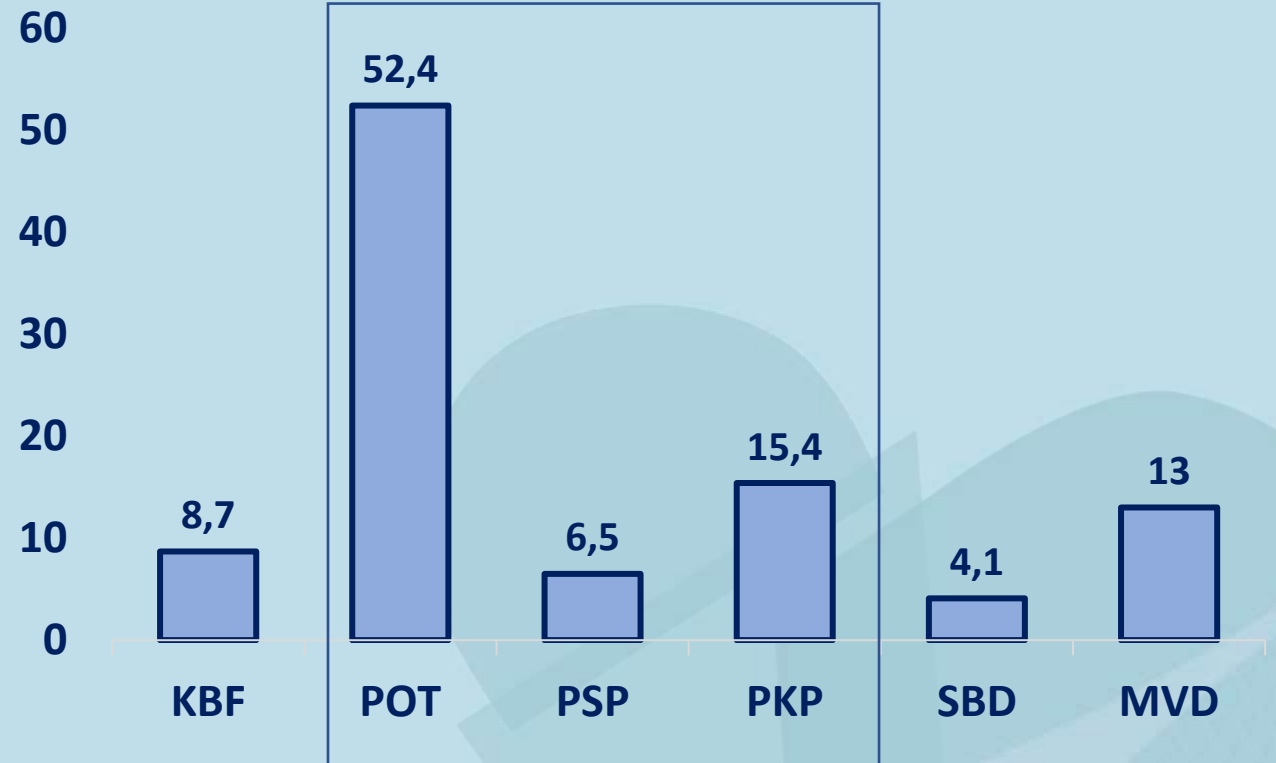


*Bailout stent*

No  
91,2%

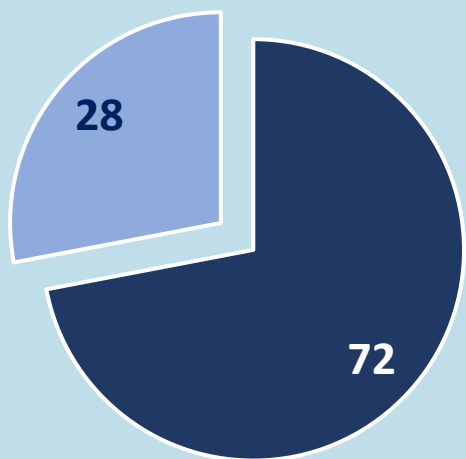
Yes

8,8%



***FINAL POT → ≈ 75%***

# Initial strategy – Provisional stent



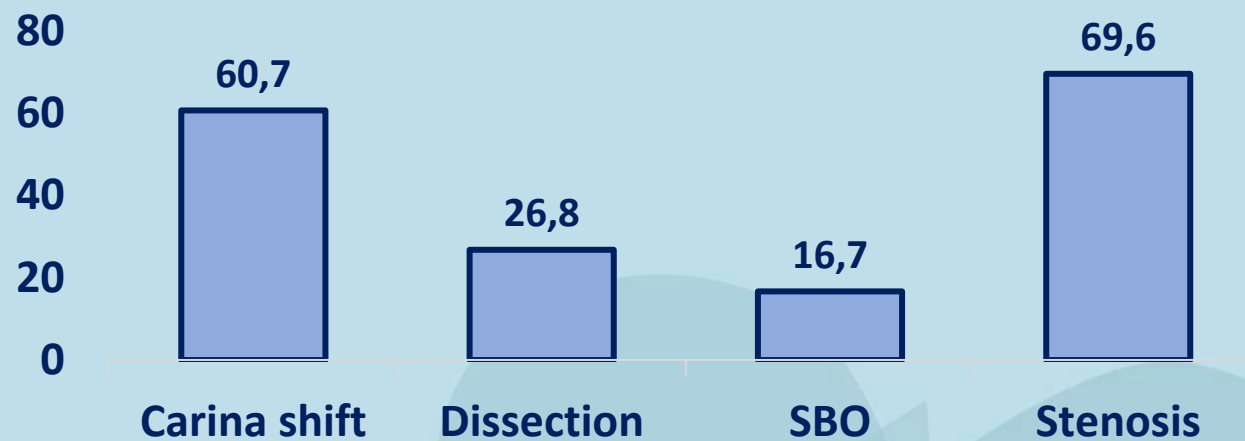
■ P.S. ■ 2ST

*Bailout stent*

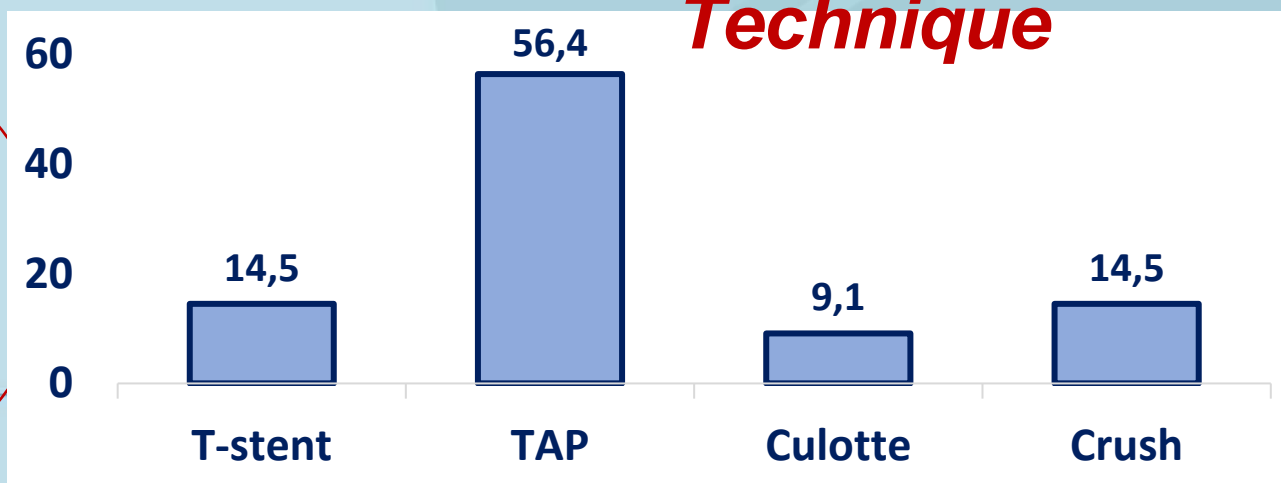
No  
91,2%

Yes  
8,8%

## *Causes*

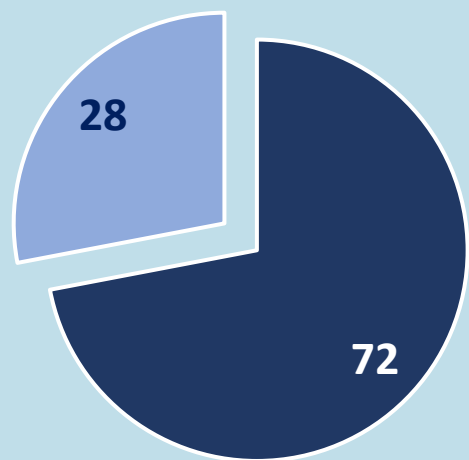


## *Technique*





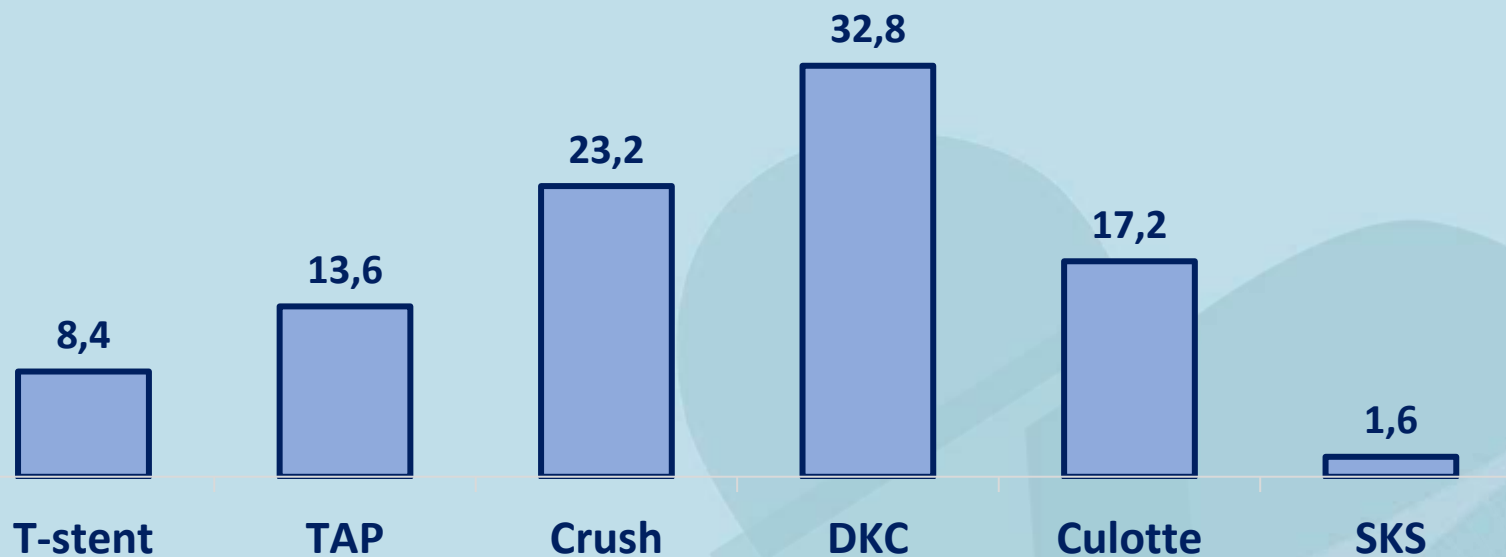
# Initial strategy – 2ST upfront



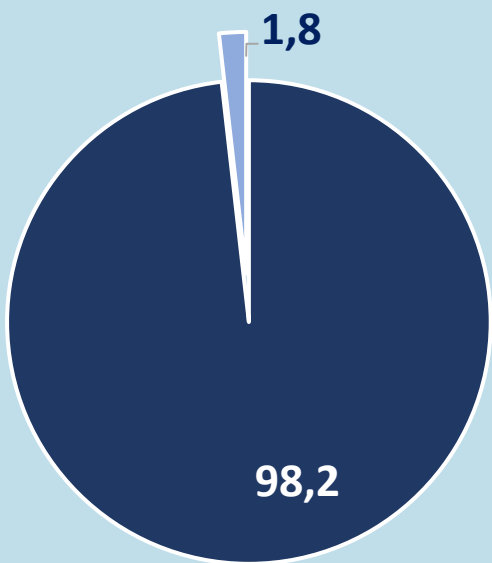
■ P.S ■ 2ST



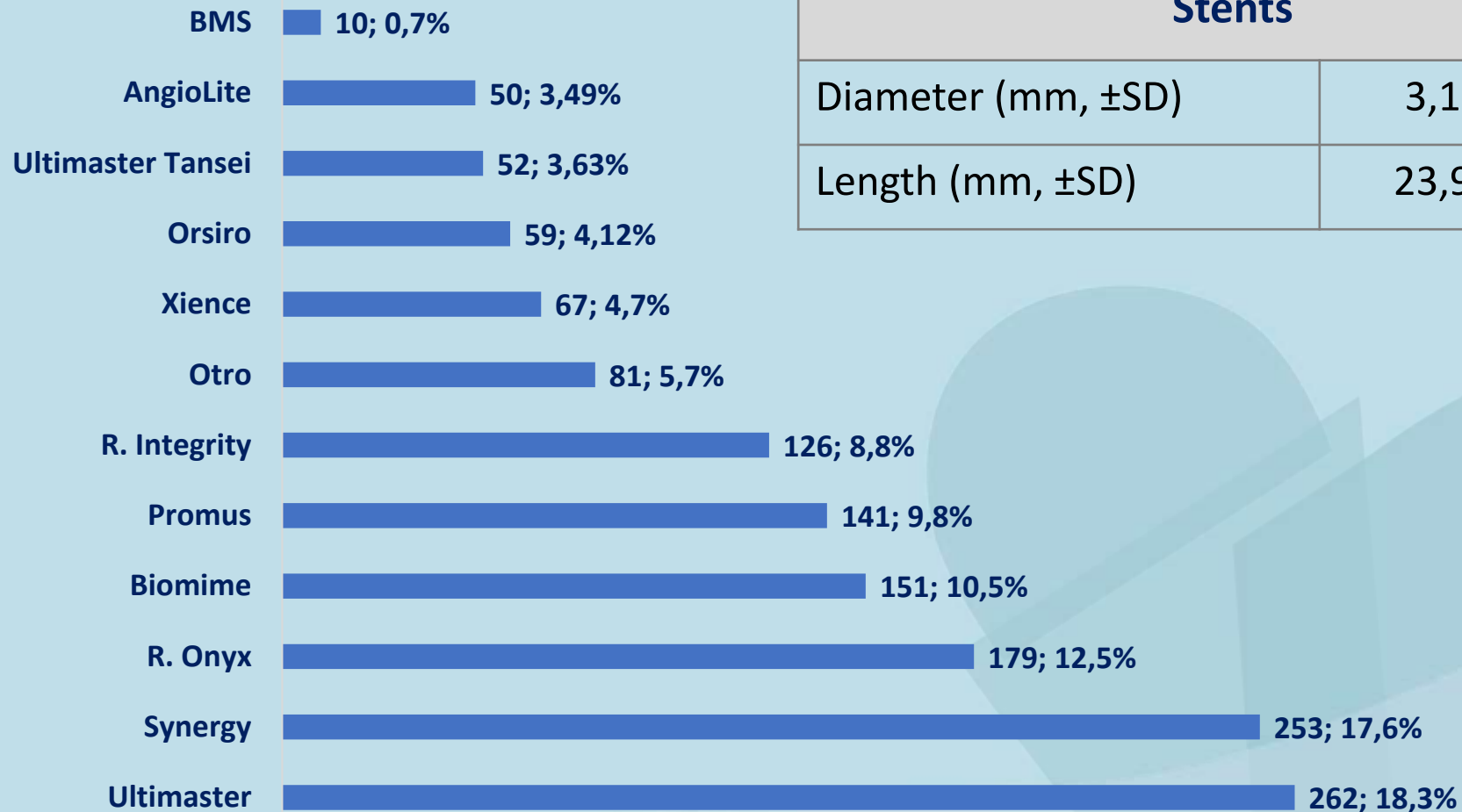
35  
30  
25  
20  
15  
10  
5  
0



# Devices: Stents

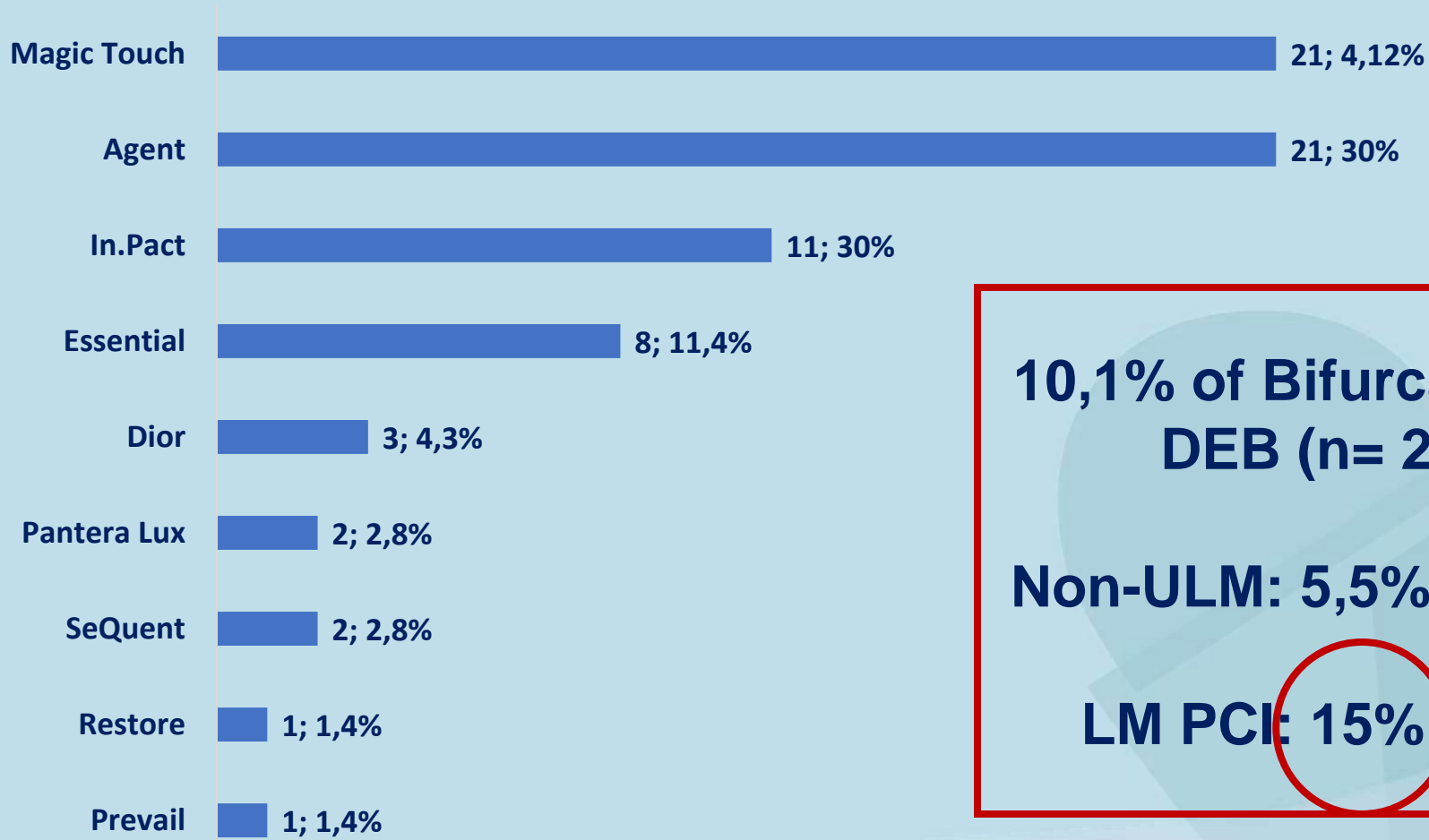


■ Stent implantation    □ Non-stent



Stents	
Diameter (mm, ±SD)	3,1 ± 0,56
Length (mm, ±SD)	23,95 ± 7,9

# Devices: DEB

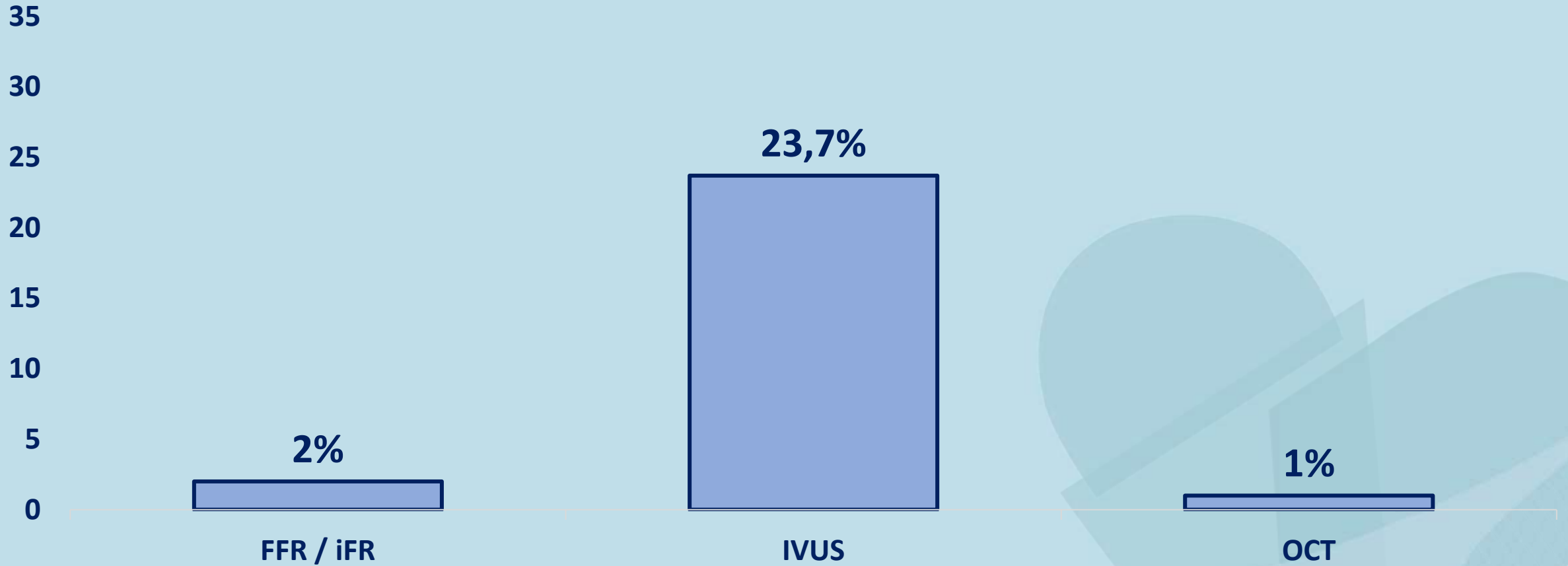


**10,1% of Bifurcation PCI with DEB (n= 205/2030)**

**Non-ULM: 5,5% (n= 132/1543)**

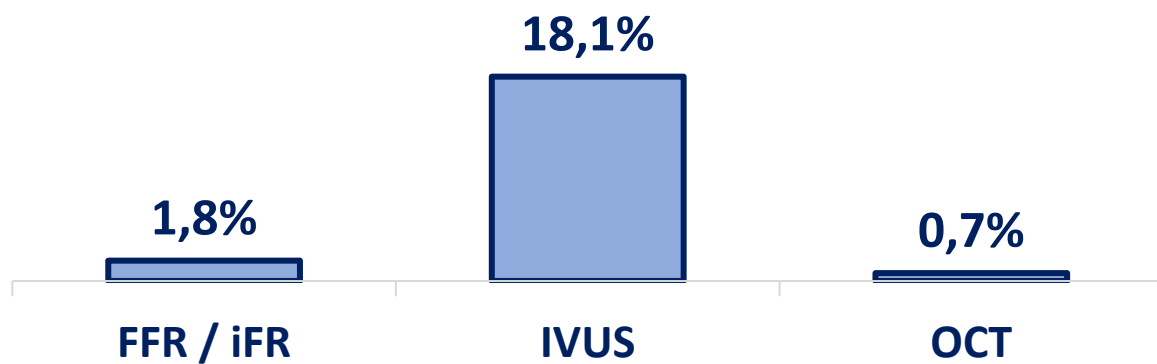
**LM PCI: 15% (n= 73/487)**

# Intracoronary imaging (2030 pts)

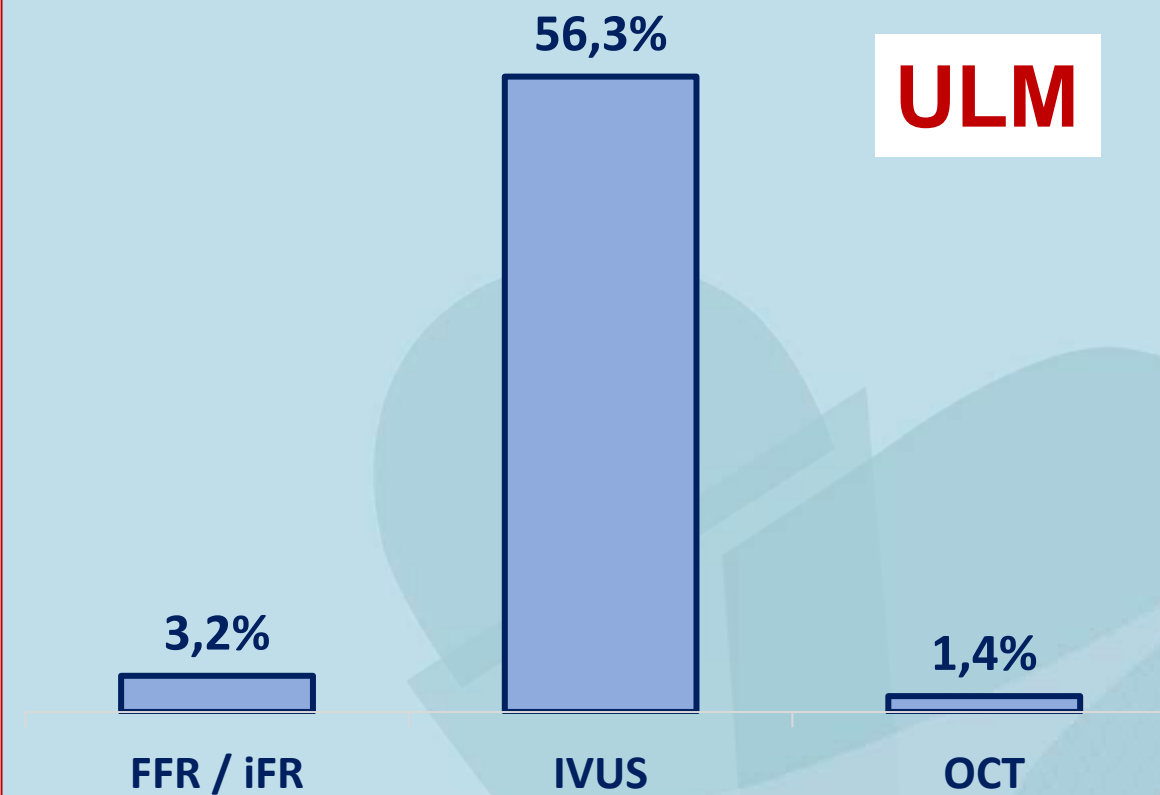


# Intracoronary imaging (n= 2030 pts)

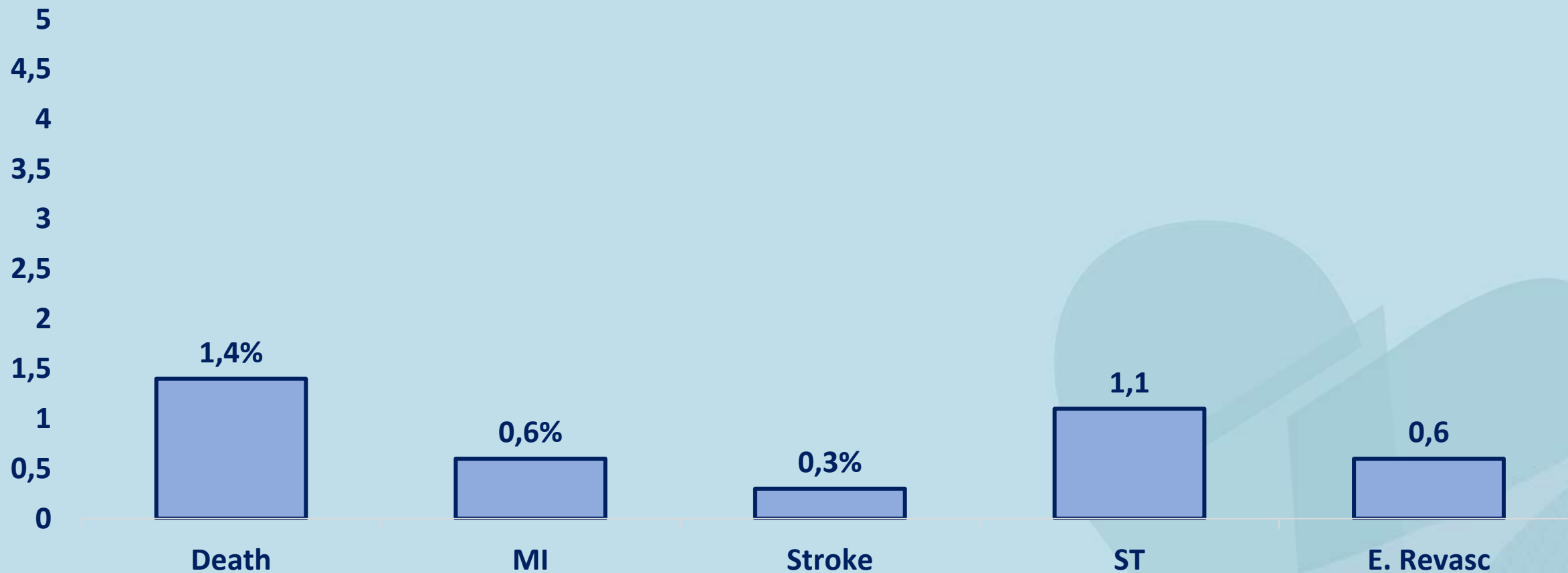
## Non-ULM



## ULM



# In-hospital events



# Summary

- Prospective registry, open to the participation of ALL LATAM centers.
- It Will provide us with fundamental information to determine the current status of bifurcation PCI in LATAM.
- It will be an important mean to work collaboratively with leading societies on the topic worldwide.



# Thank you!!!!





# LATAM Bif registry

If you want to participate  
[latambif@gmail.com](mailto:latambif@gmail.com)

- To participate in LATAMBif Registry send an e-mail to:

**latambif@gmail.com**

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BUENOS AIRES HILTON  
BUENOS AIRES, ARGENTINA

AUGUST  
7-9  
2024

GRACIAS!!!!  
OBRIGADO !!!!  
THANK YOU !!!!



XXXIX ANNUAL CONGRESS OF LATIN AMERICAN SOCIETY OF INTERVENTIONAL CARDIOLOGY  
XXXIV NATIONAL ANNUAL CONGRESS OF THE ARGENTINE COLLEGE OF INTERVENTIONAL CARDIOLOGY

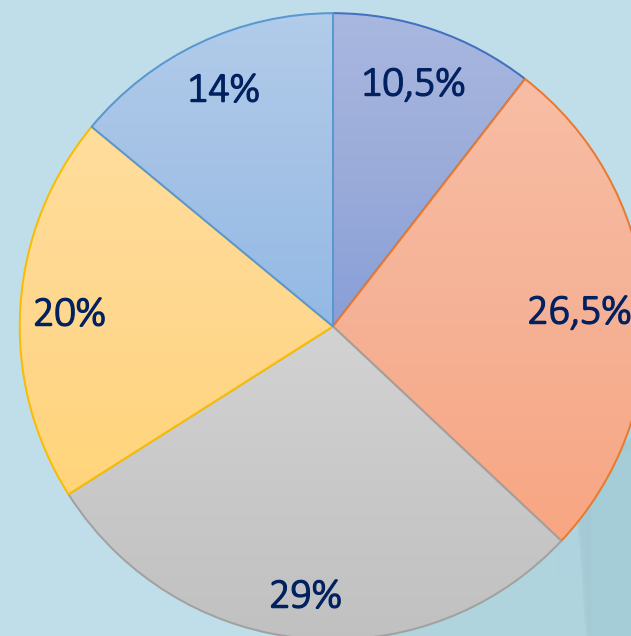
[www.solacicongress.org](http://www.solacicongress.org)

# LATAMBIF Registry – ULM sub-analysis

n= 487

Population characteristics	
Age (yrs ± SD)	69,9 ± 10
Males, %	81,6
HTN, %	86,1
Dyslipemia, %	77,5
Smoking, %	44,4
DBI (total), %	39
ID-DBT, %	8,1
Previous PCI, %	36
Heart Failure, %	19,5
LVEF < 30%, %	6,8 %

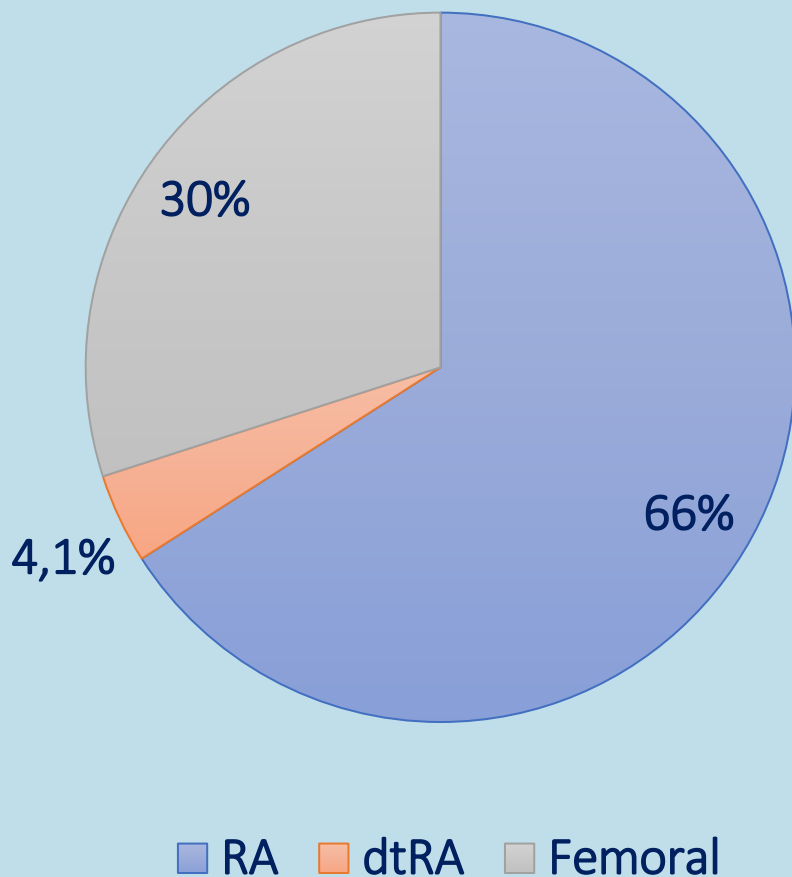
## Clinical Presentation



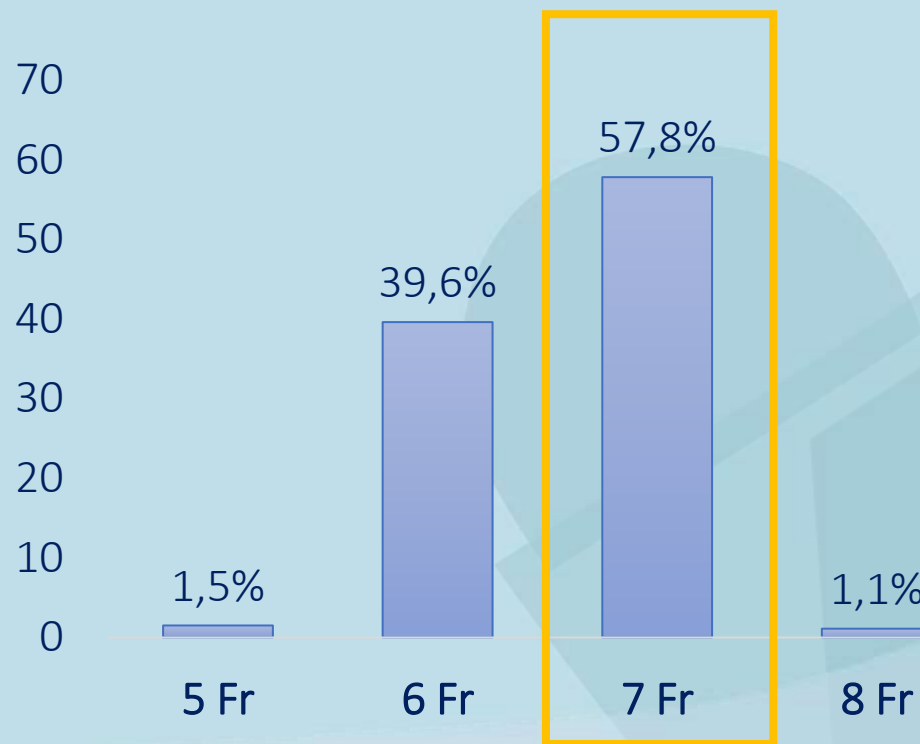
■ Asymptomatic ■ CCS ■ UA ■ NSTEMI ■ STEMI

# LATAMBIF Registry – ULM sub-analysis

## Vascular Access



## Catheter French

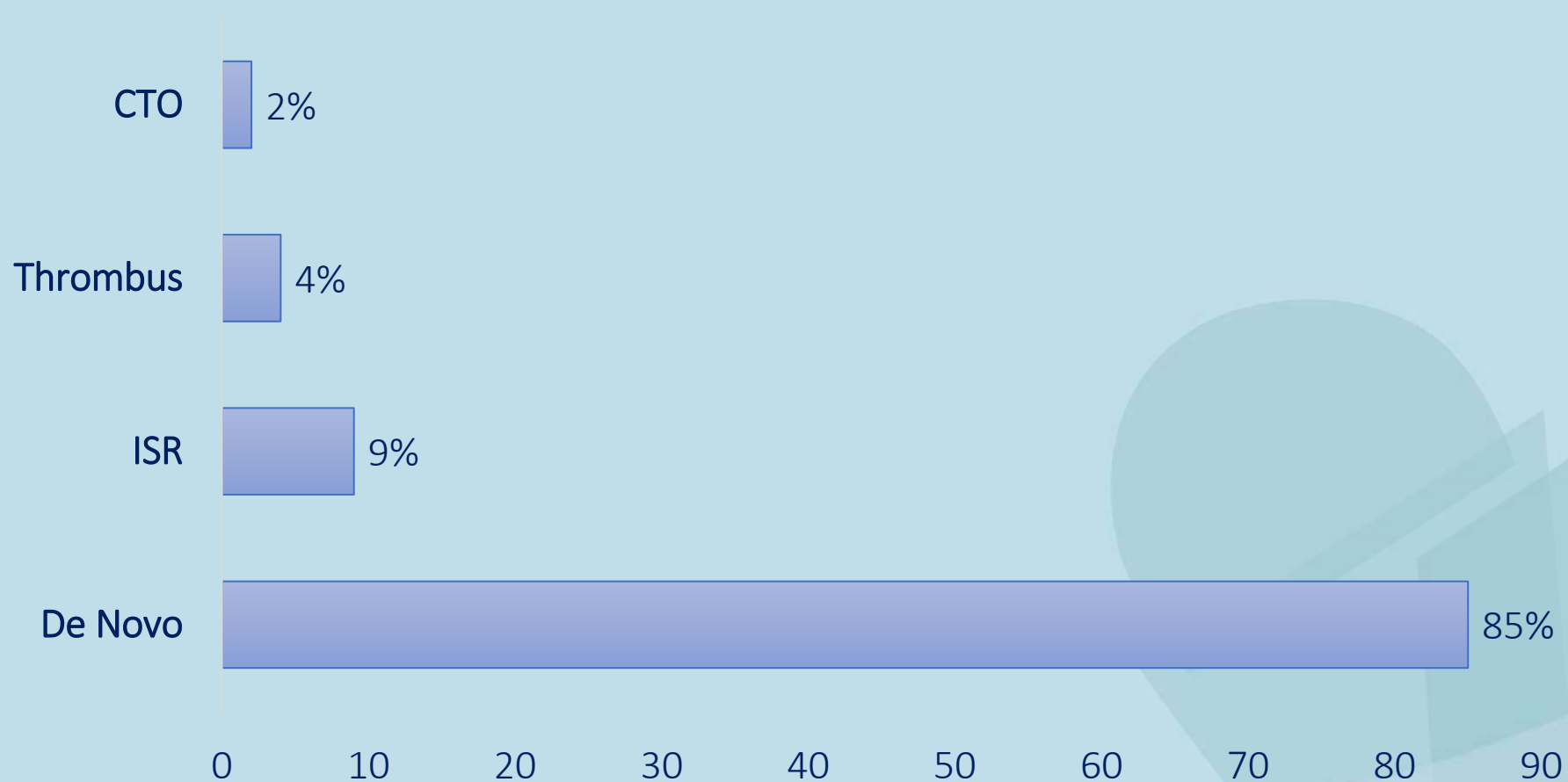


# Latin American Registry of Percutaneous Interventions in Coronary Artery Bifurcations *LATAMBif Registry*

*Angio Assessment*

# LATAMBIF Registry – ULM sub-analysis

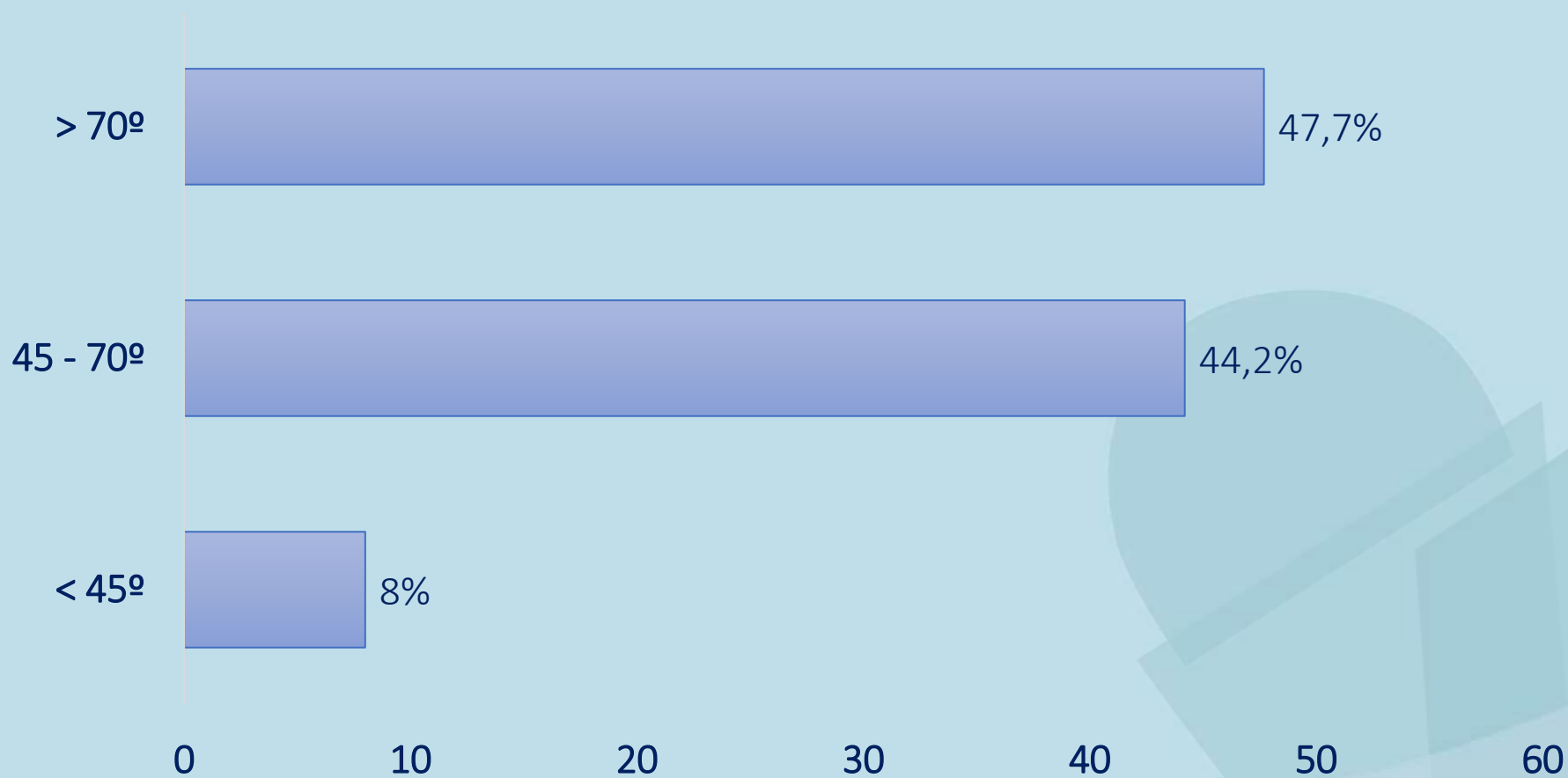
## Type lesion





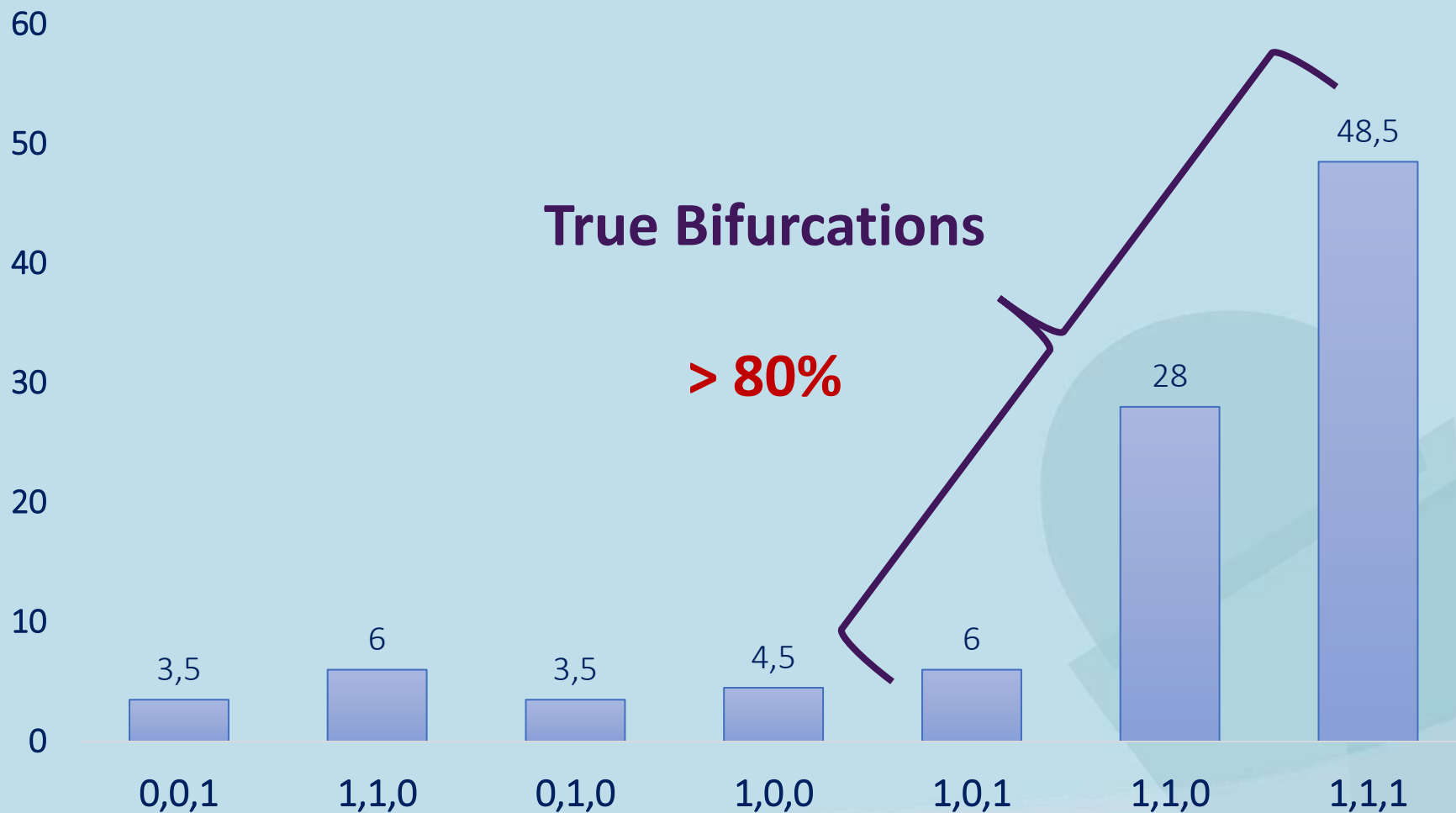
# LATAMBIF Registry – ULM sub-analysis

## Bifurcation angle

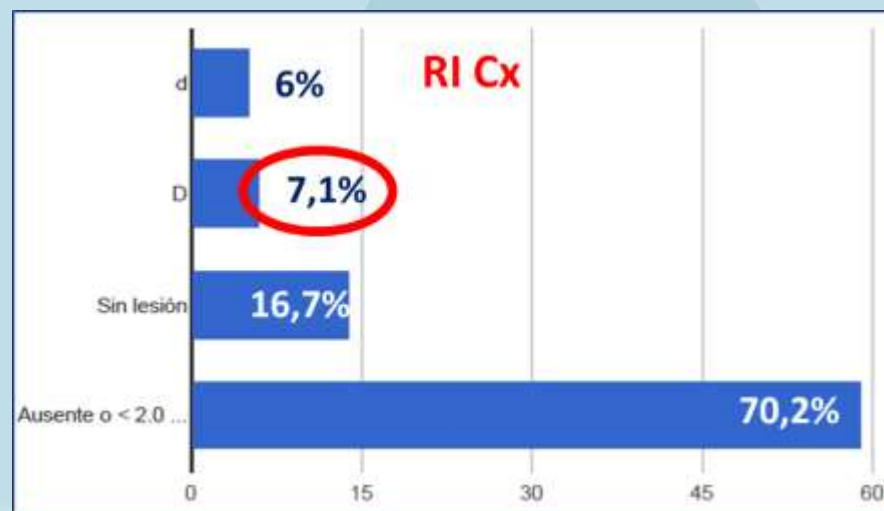
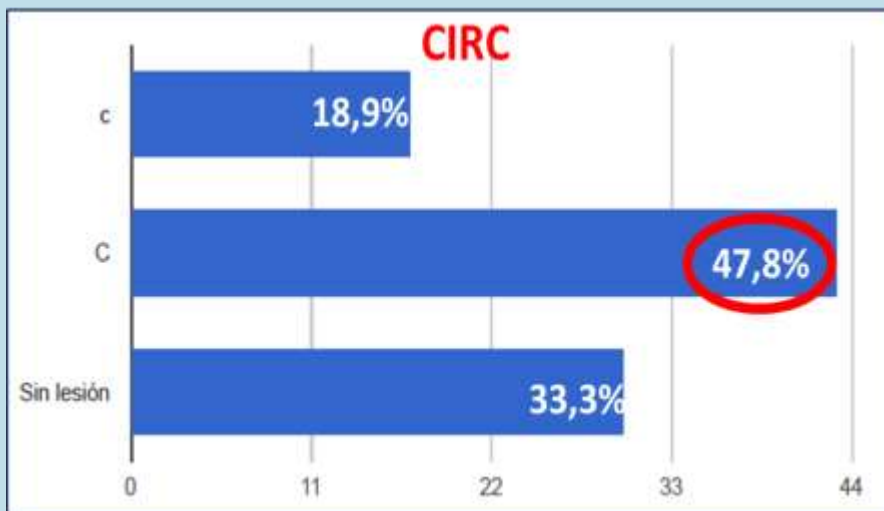
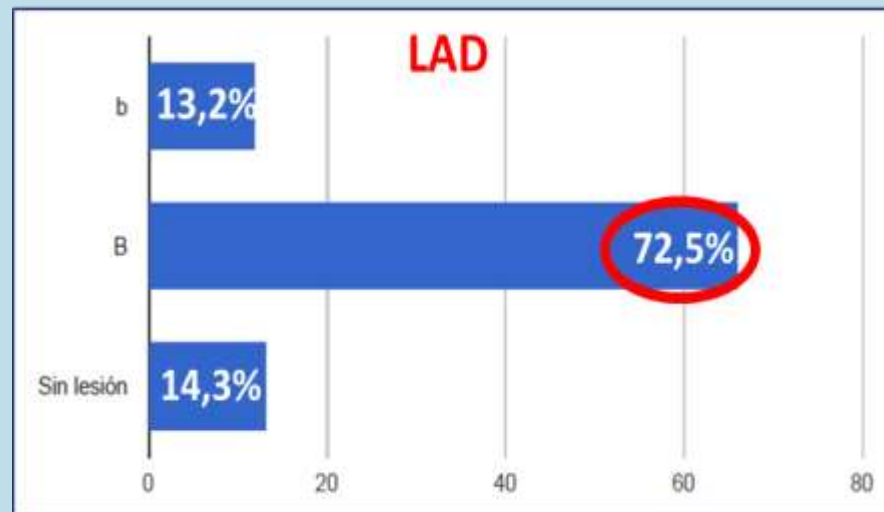
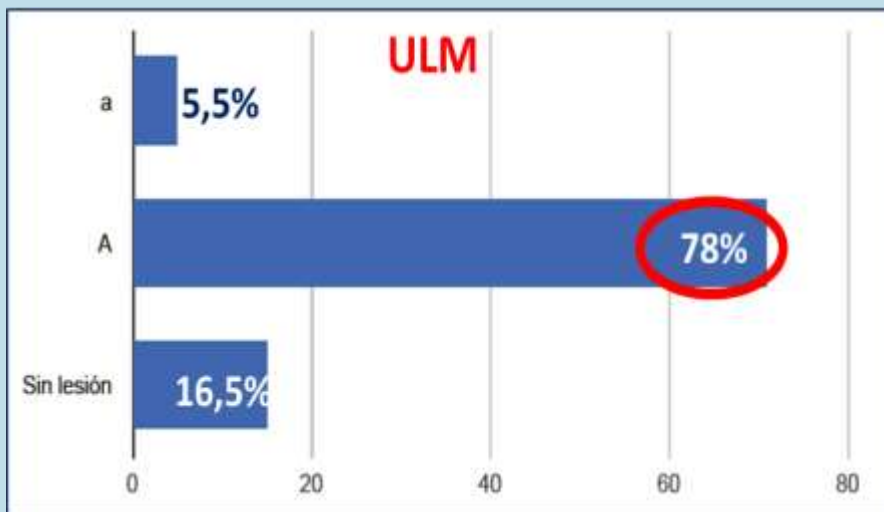


# LATAMBIF Registry – ULM sub-analysis

## Medina classification



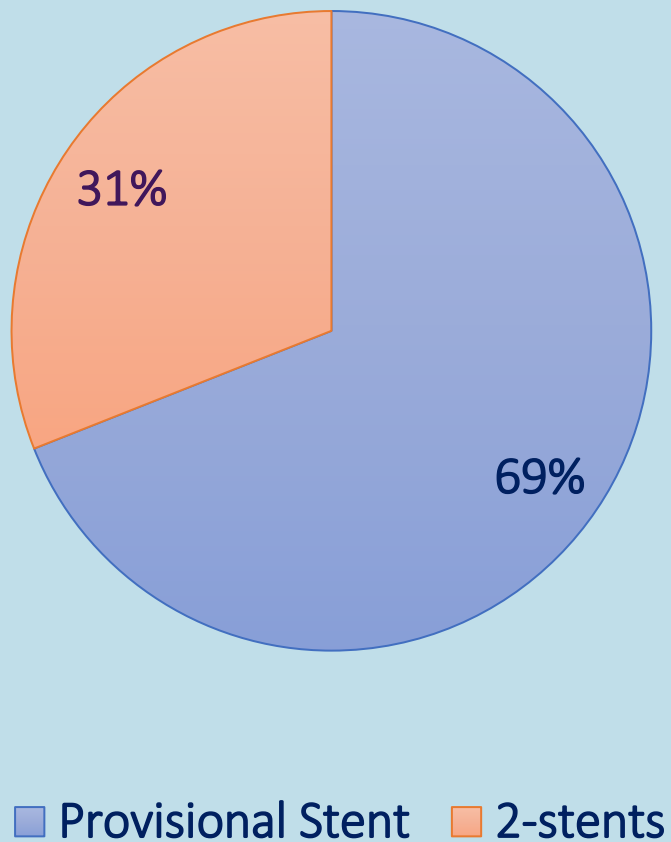
# ABCD Classification



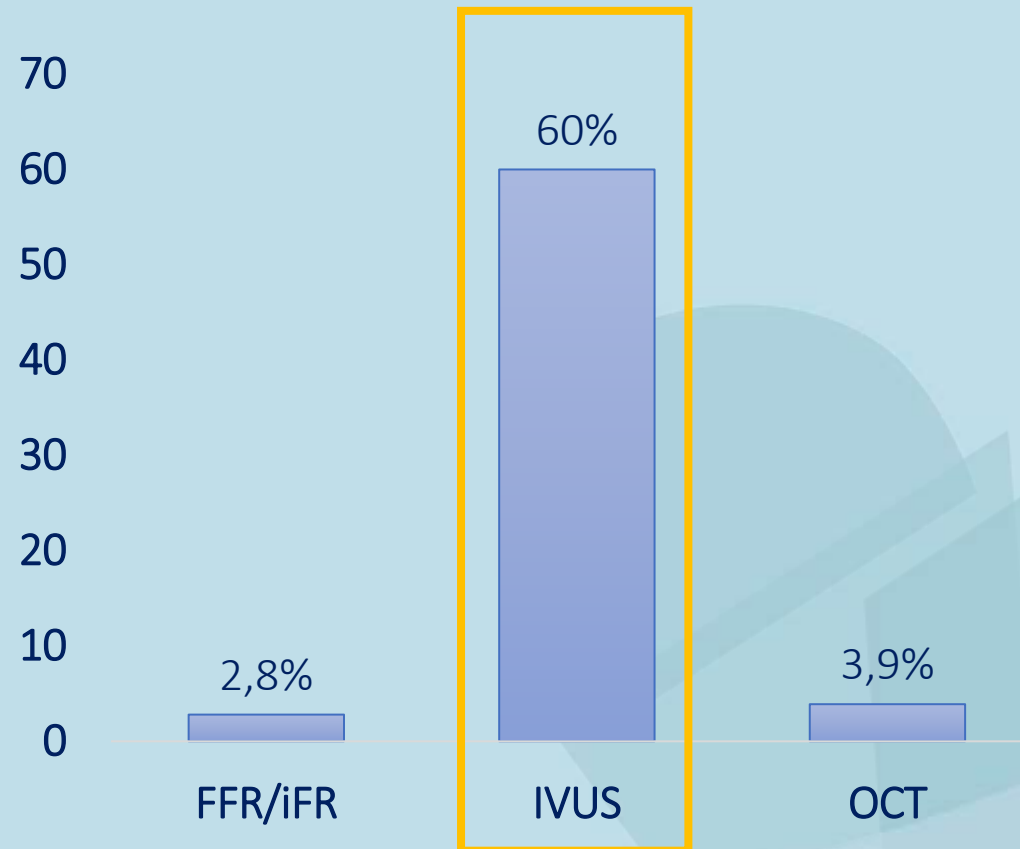
# Latin American Registry of Percutaneous Interventions in Coronary Artery Bifurcations *LATAMBif Registry*

## *Technical Approach*

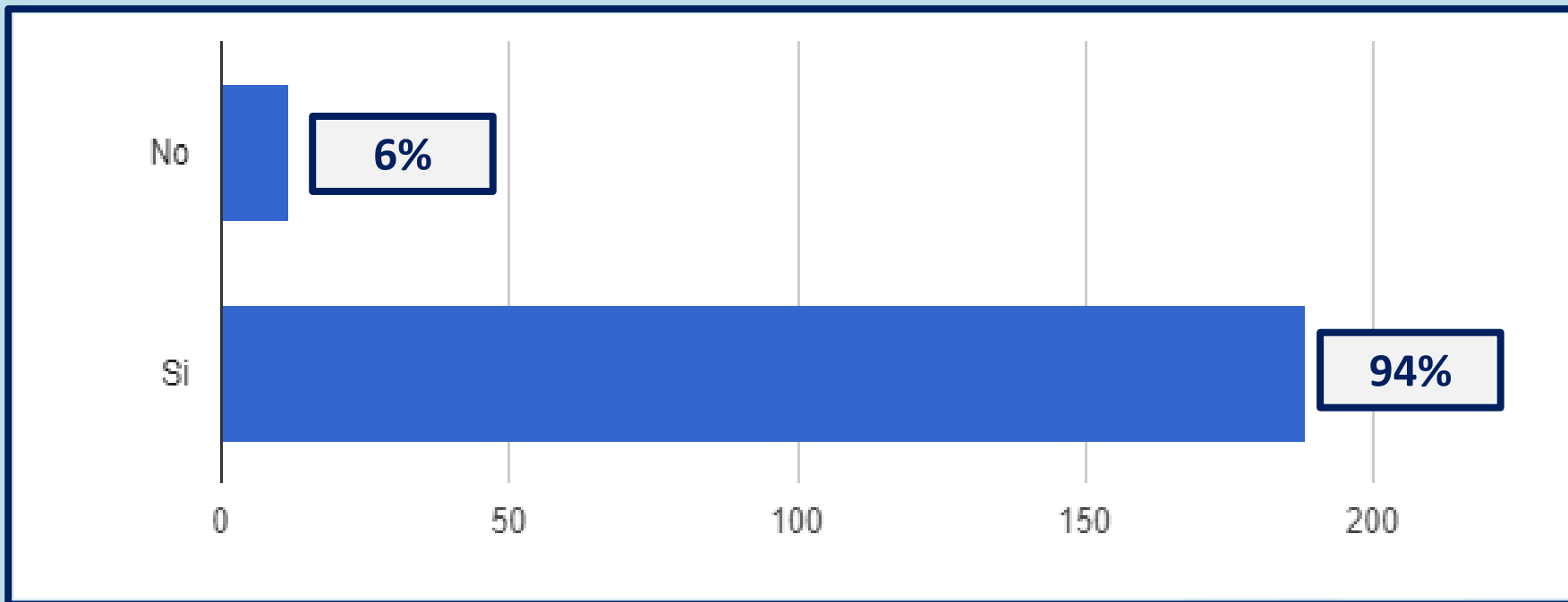
# LATAMBIF Registry – Intention to treat



## Intracoronary Assessment

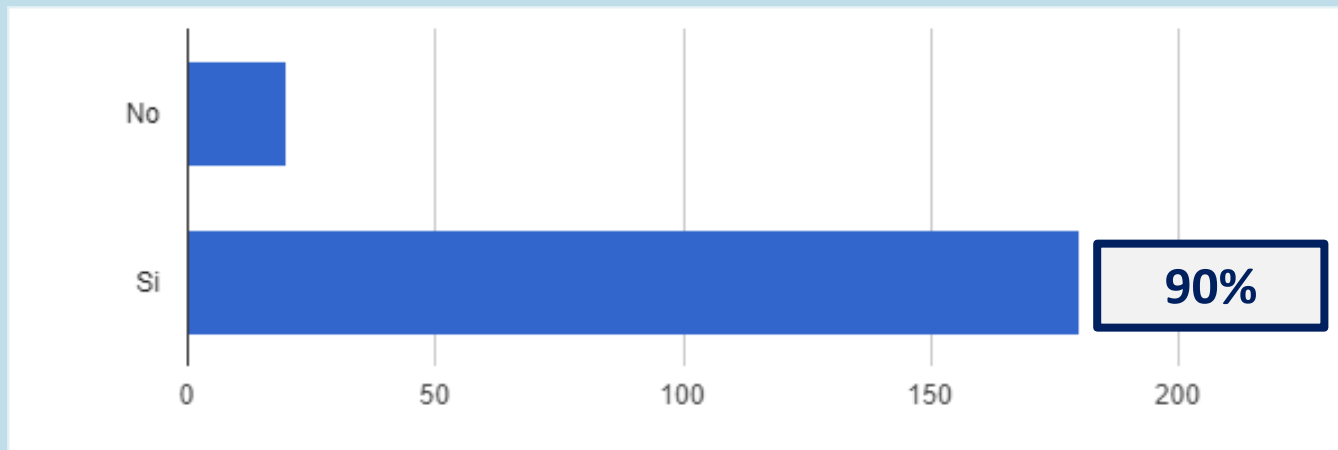


# LATAMBIF Registry – SB guidewire

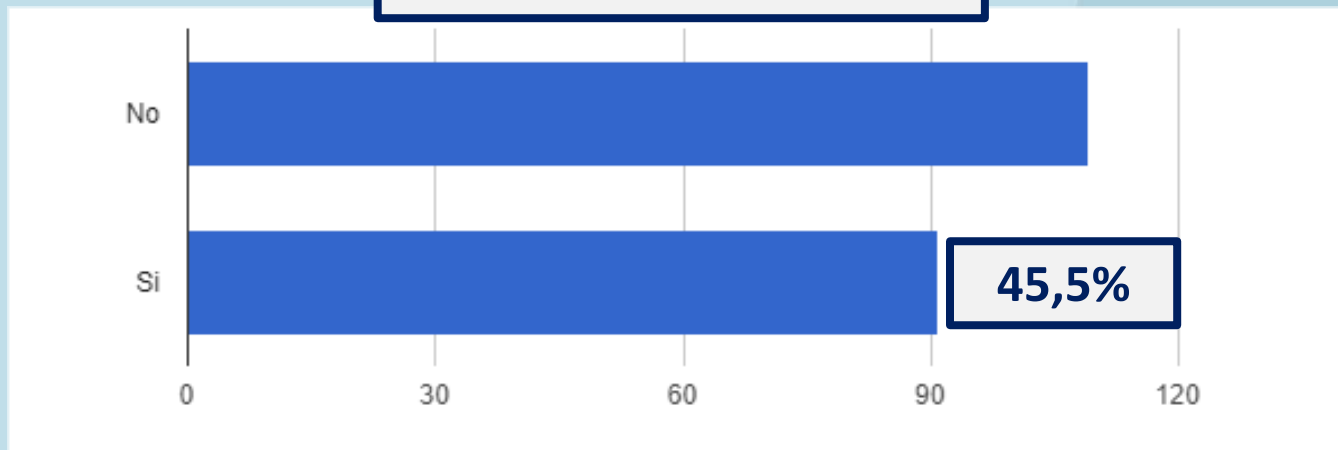


# LATAMBIF Registry – Predilatation

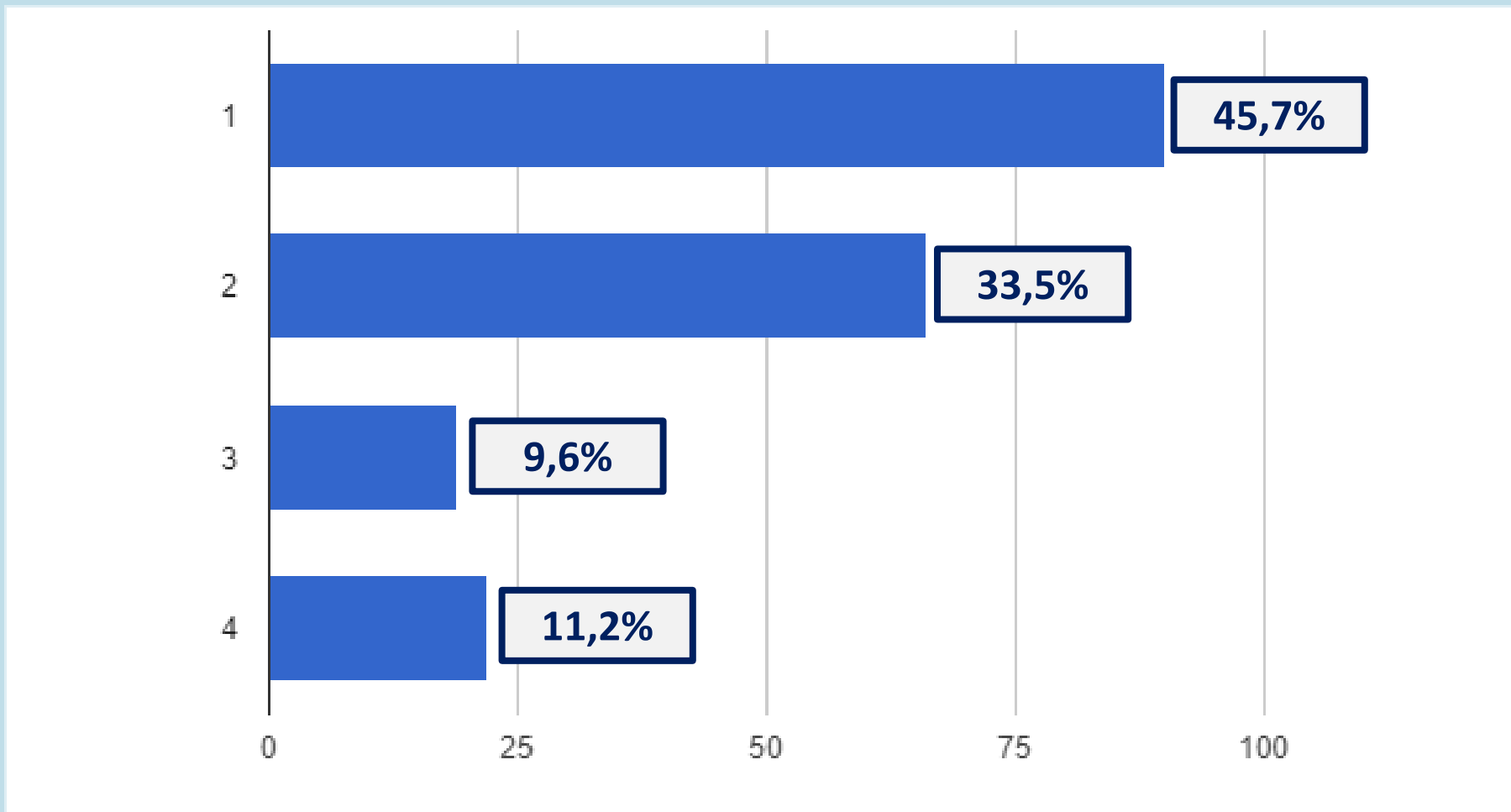
## Main vessel



## Side branch

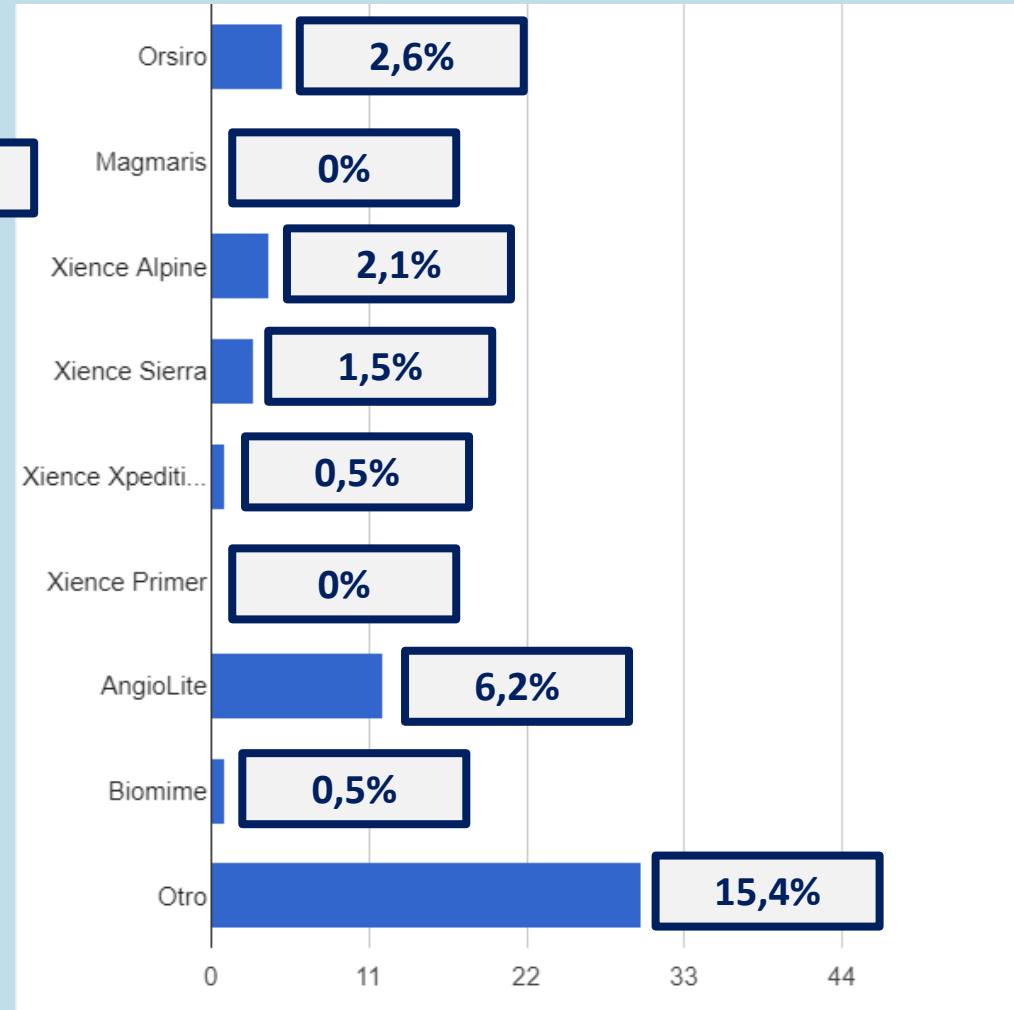
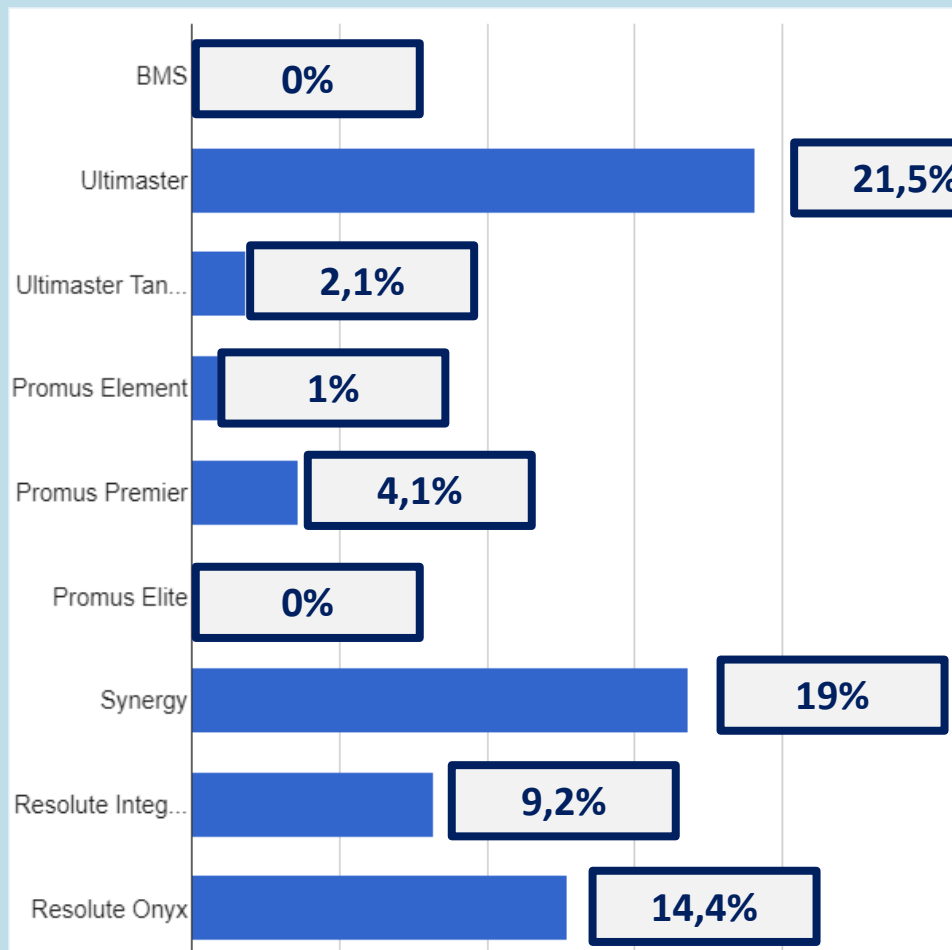


# LATAMBIF Registry – *Number of stents*



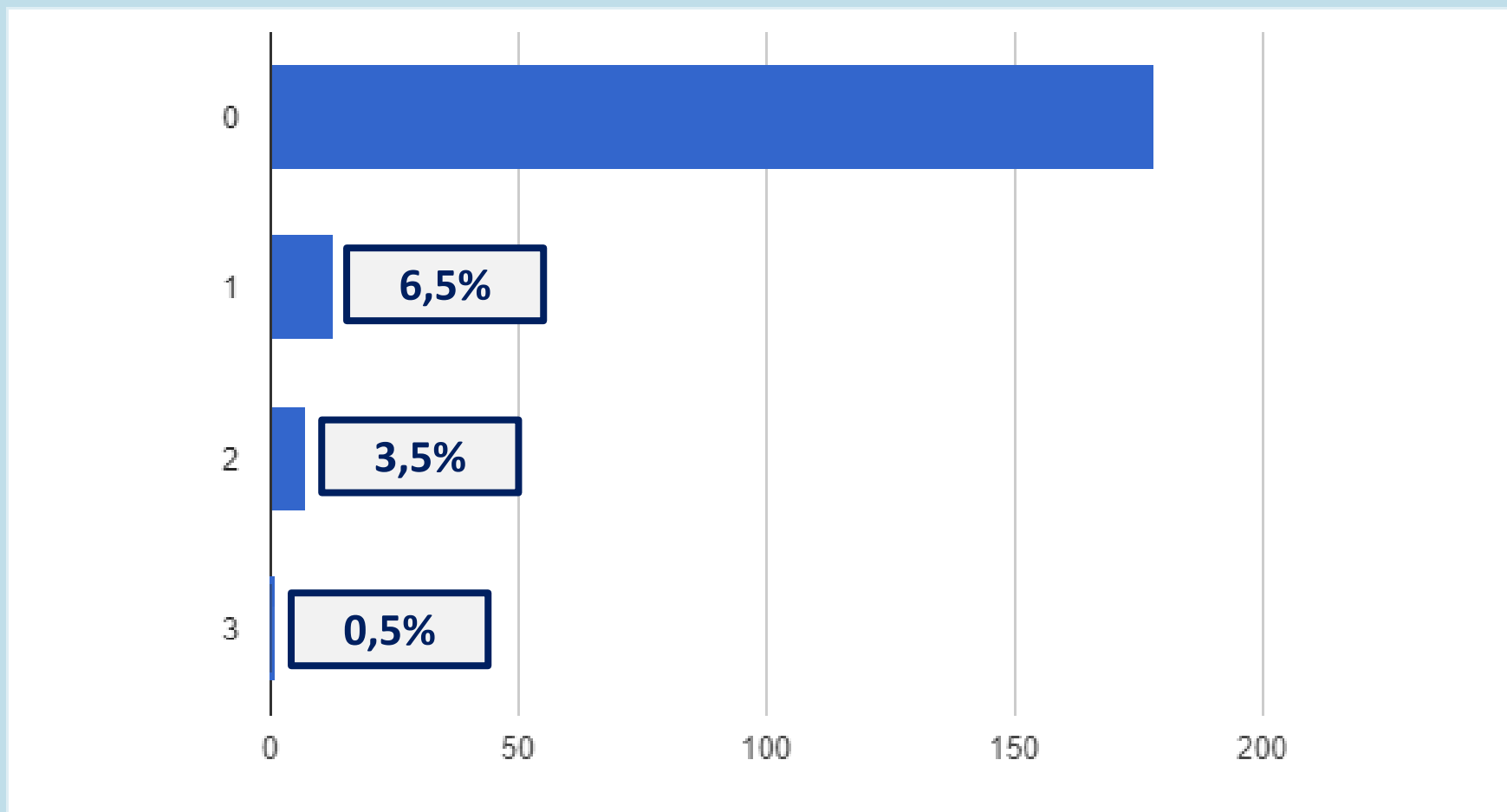


# LATAMBIF Registry – Number of stents



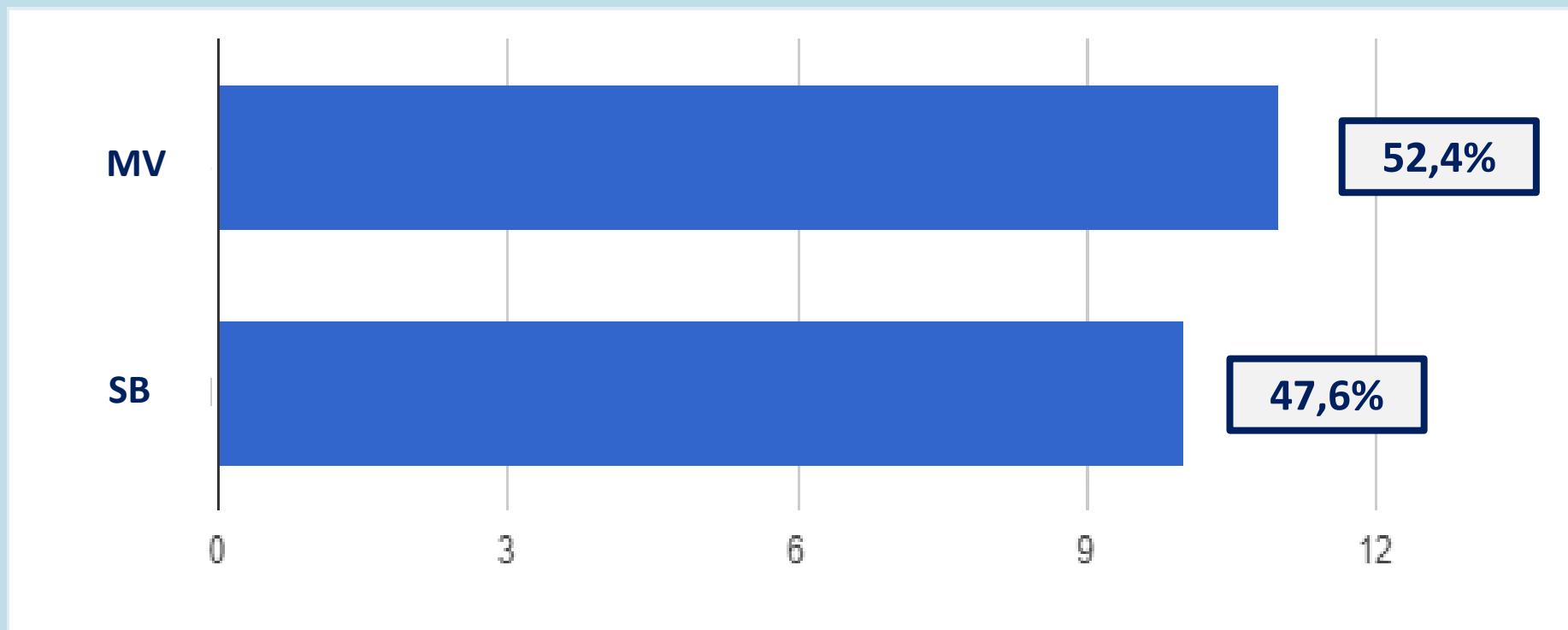
# LATAMBIF Registry – Drug Eluting Ballons

**% of DEB → 10,5%**

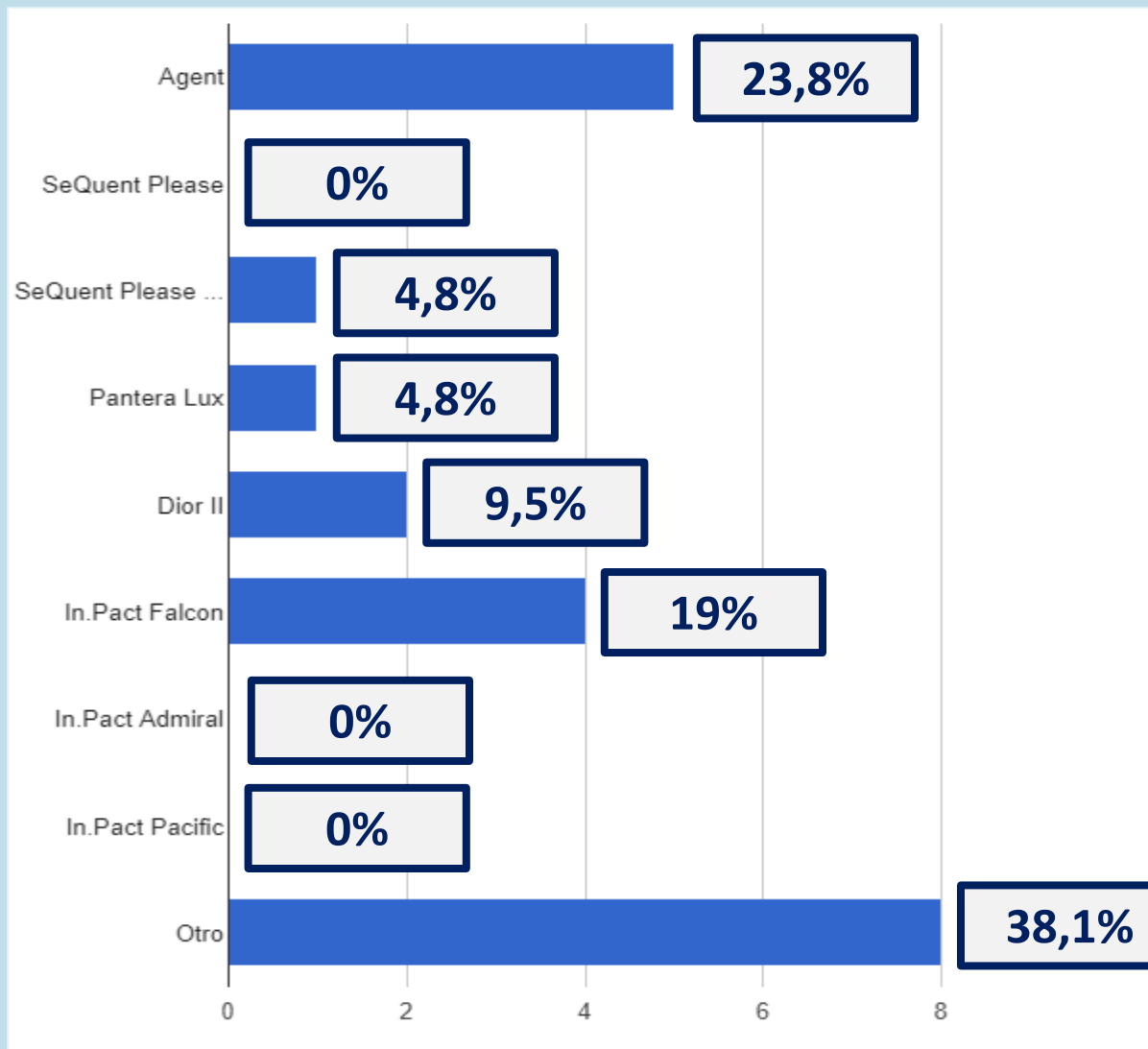


# LATAMBIF Registry – *Drug Eluting Ballons*

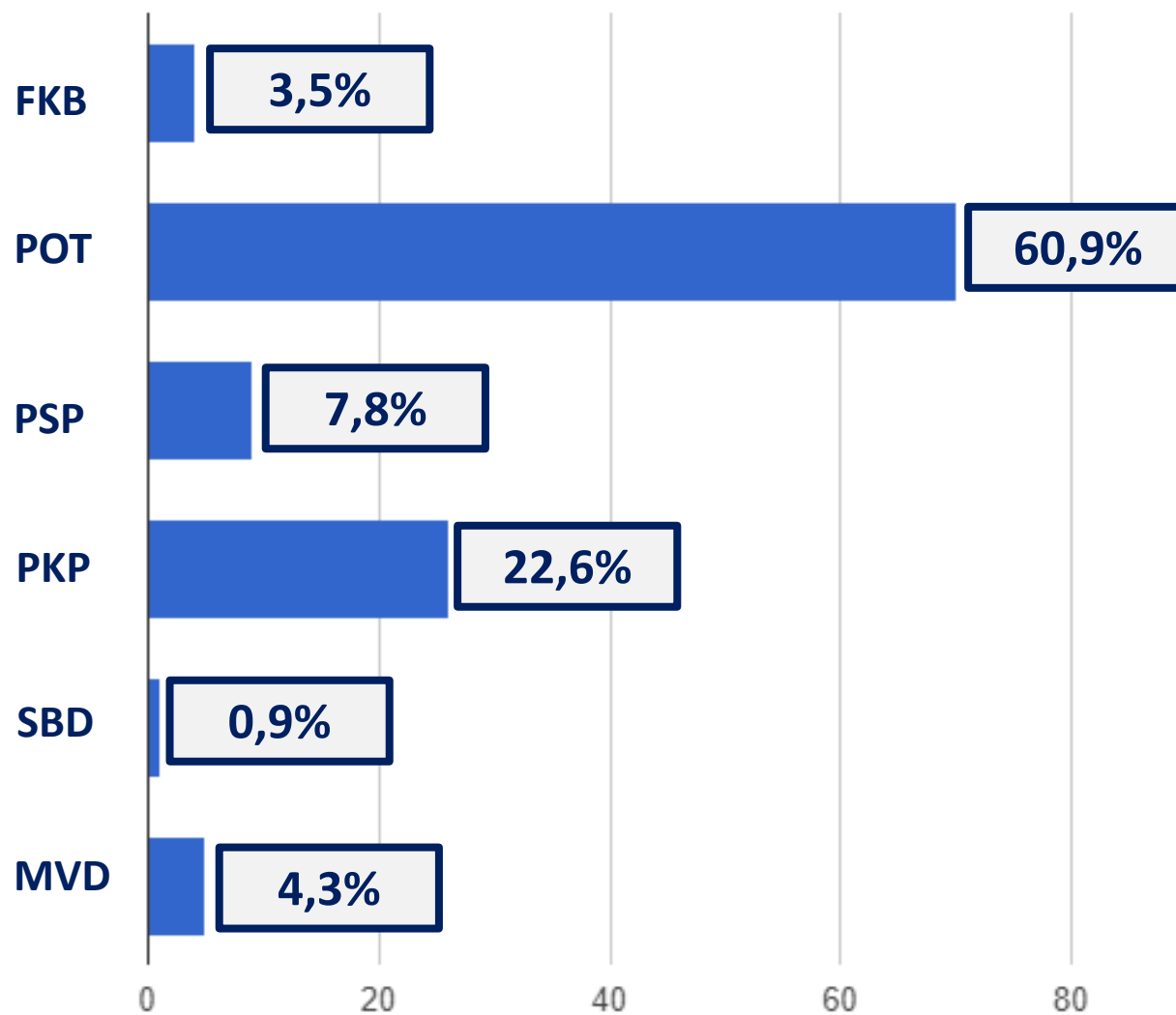
## Site of drug application



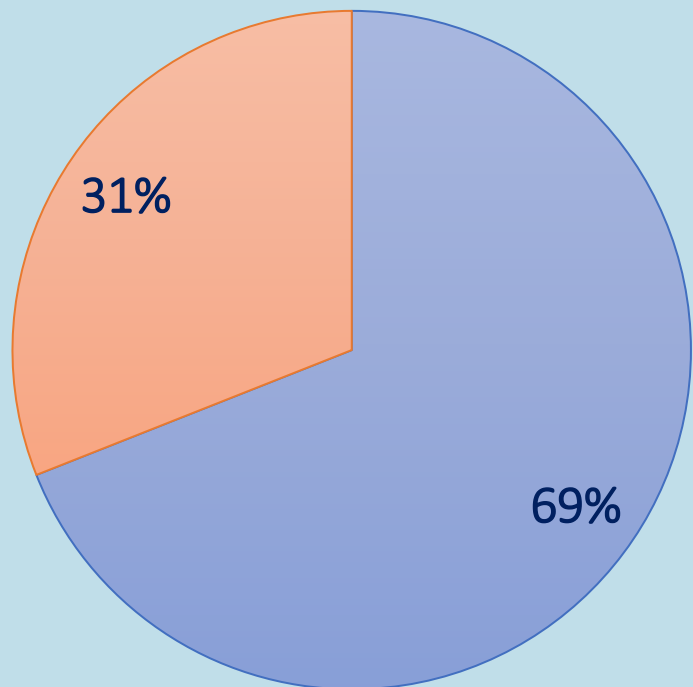
# LATAMBIF Registry – Drug Eluting Ballons



# LATAMBIF Registry – *Final manouver*

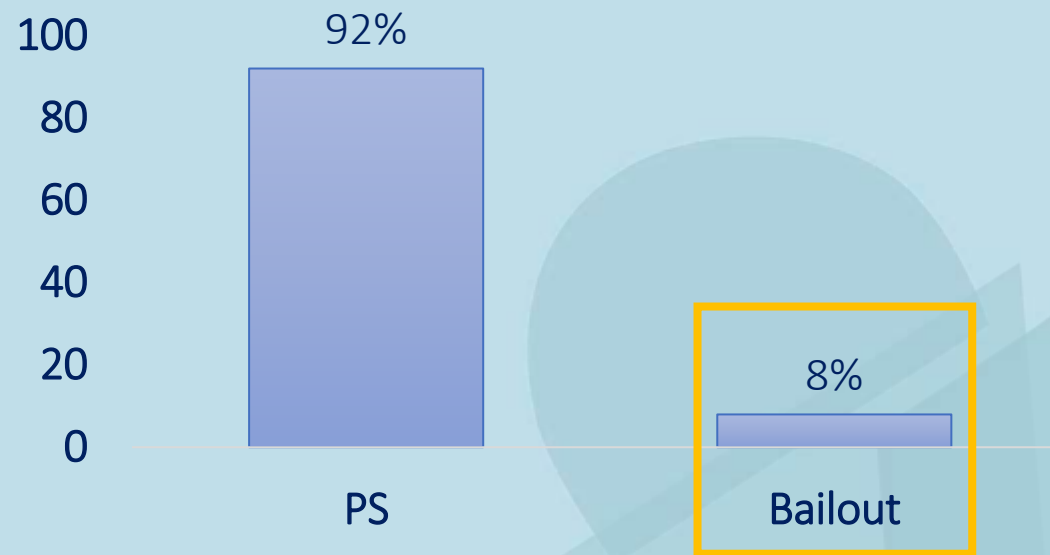


# LATAMBIF Registry – *Bailout*

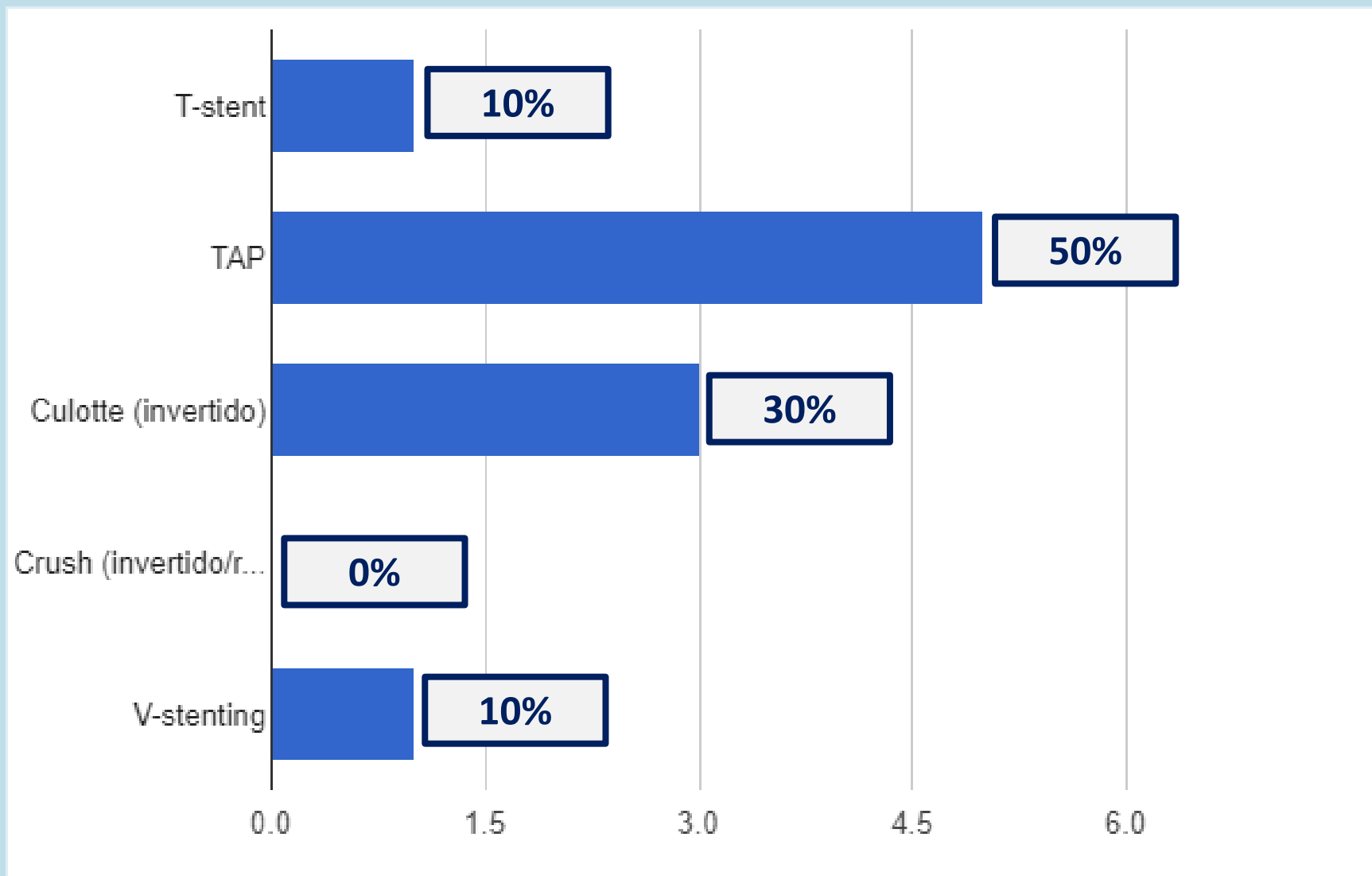


■ Provisional Stent   ■ 2-stents

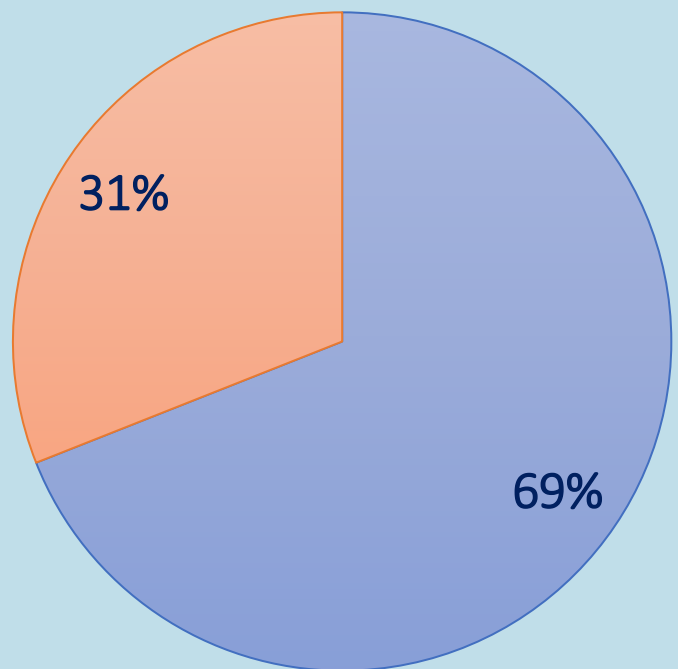
## Bailout stenting in PS



# LATAMBIF Registry – Bailout stenting

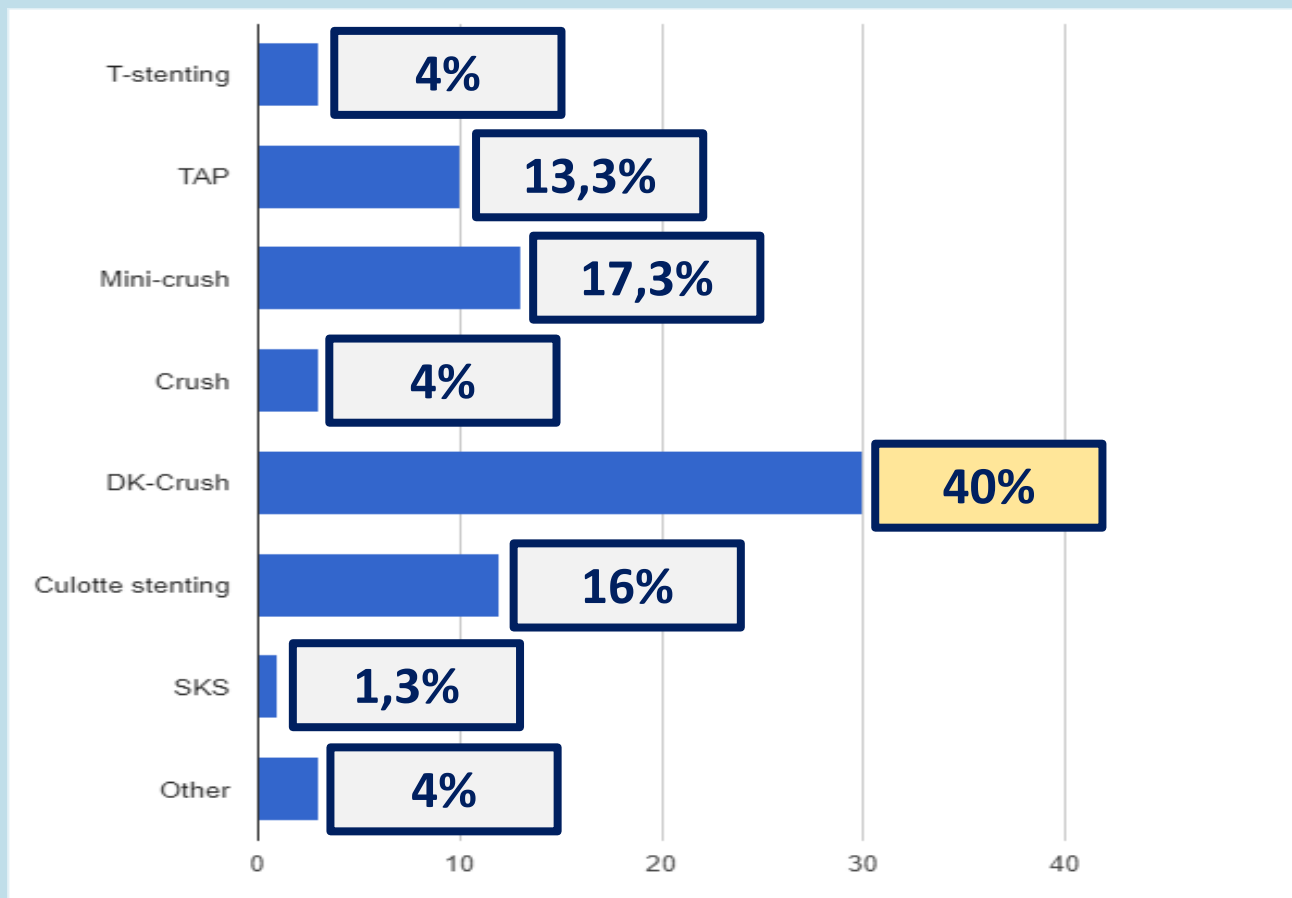


# LATAMBIF Registry – 2-stent techniques



■ Provisional Stent ■ 2-stents

## Two-stents technique





# In-hospital events

