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# Dissection coronaire spontanée: état des lieux

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# DÉCLARATION DE LIENS D'INTÉRÊT POTENTIELS

**Intervenant** : Sabine ZIGHOUD, Blida

Je n'ai pas de lien d'intérêt potentiel à déclarer

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# Cause de syndrome de coronarien aigu

## LES IDÉES REÇUES !

Pathologie très rare

Pathologie sous diagnostiquée

Pathologie de la grossesse et du péri partum

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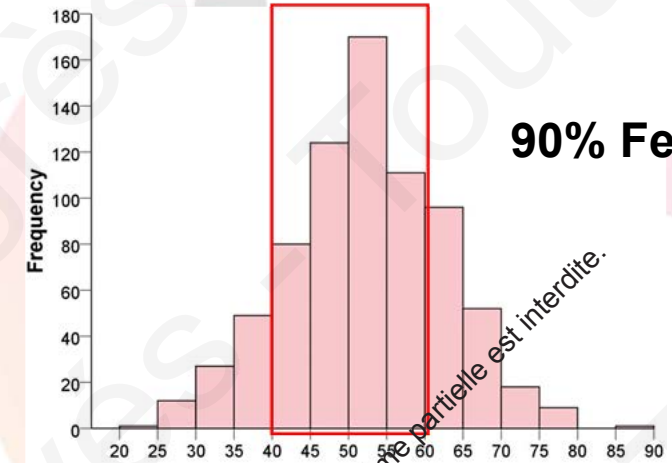


**Table 1. Angiographic Prevalence of SCAD in ACS Cohorts**

Reference	Year	Patients With SCAD, n	SCAD Prevalence as a Proportion of All ACS Cases, %	Women Among SCAD Cases, %	PA-SCAD, %	SCAD Prevalence in Subgroups With Women	Methods, Population, Inclusion Criteria
Vanzetto et al <sup>31</sup>	2009	23	0.2 (0.6 women, 0.07 men)	74	0	8.7% SCAD among ACS in women ≤50 y	Systematic retrospective review of 11 605 angiograms Included type 1 SCAD only Atherosclerosis-related coronary dissection not excluded
Mortensen et al <sup>30</sup>	2009	22	2.0	77	NR	NR	Retrospective search for coded diagnoses in database of 32 969 angiograms; reviewed only those with prior SCAD diagnosis
Alfonso and Bastante <sup>14</sup>	2014	27	0.16	84	3.7	NR	Retrospective search for coded diagnoses among 16 813 first angiograms (2004–2010)
Saw et al <sup>15</sup>	2014	16	NR	100	NR	24.2% SCAD among ACS in women ≤50 y	Retrospective review of 177 angiograms in women ≤50 y representing 9% of angiograms (n=7605) performed during the study period (2009–2011)
Rashid et al <sup>16</sup>	2016	21	1.7	95.2	NR	22.5% SCAD among ACS in women ≤60 y	Retrospective search for coded diagnoses among 1332 angiograms (2012–2013)
Nakashima et al <sup>11</sup>	2016	63	0.31	94	8.1	35% SCAD among ACS in women ≤50 y	Retrospective review of 20 195 angiograms (2000–2013) Excluded atherosclerosis-related coronary dissection Included type 2 SCAD Separate analysis for women ≤50 y with ACS (n=45)
Nishiguchi et al <sup>32</sup>	2016	13	4	53.8	NR	NR	326 Selected ACS patients undergoing OCT (2008–2012) Atherosclerosis-related coronary dissection not excluded

ACS indicates acute coronary syndrome; NR, not reported; OCT, optical coherence tomography; PA-SCAD, pregnancy-associated spontaneous coronary artery dissection; and SCAD, spontaneous coronary artery dissection.

**Figure 2** Histogram of age distribution.



*Eur Heart J*, Volume 40, Issue 15, 14 April 2019, Pages 1188–1197, <https://doi.org/10.1093/eurheartj/ehz007>  
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• **1 - 4 % des SCA**

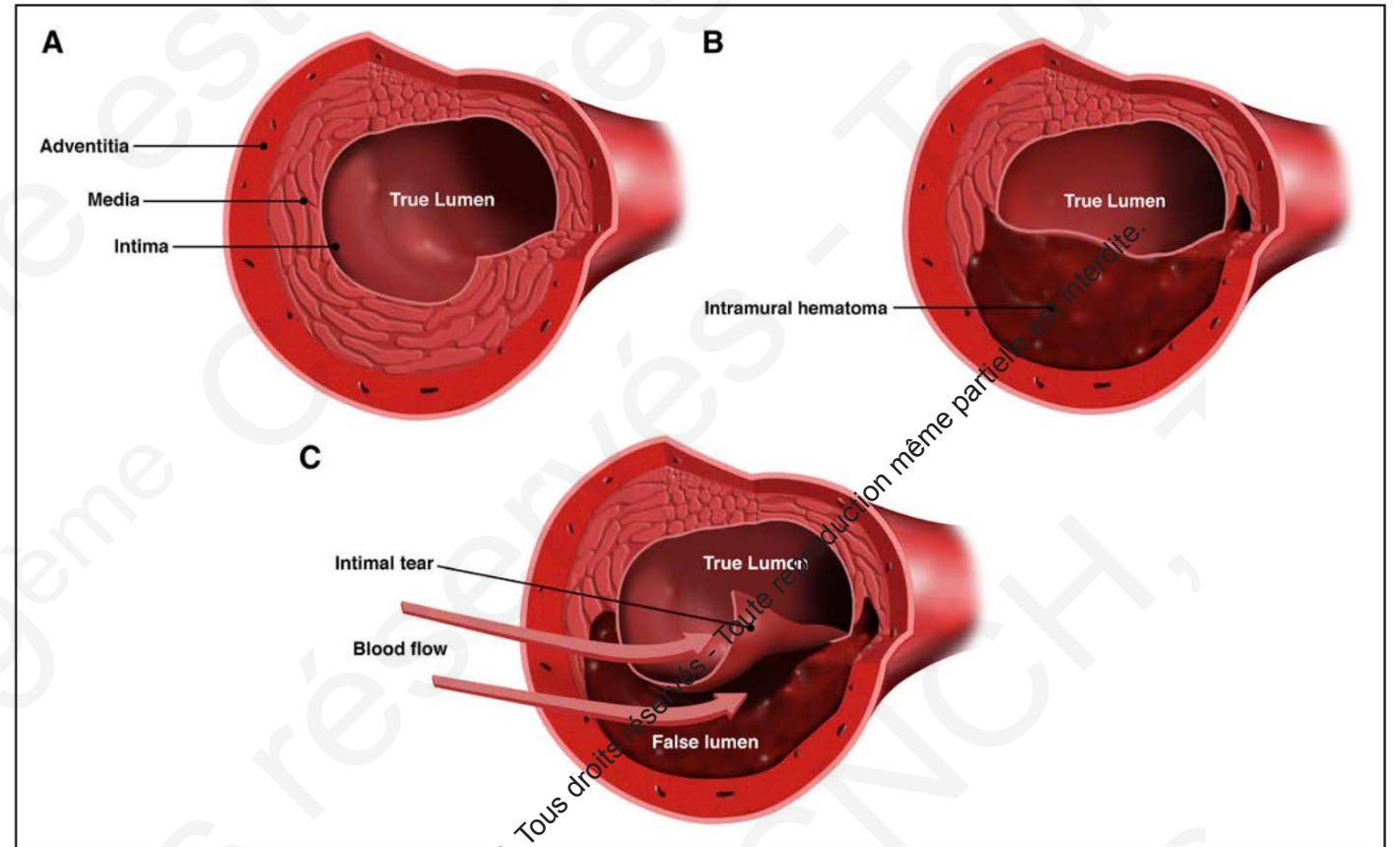
• **35% des SCA de la femme de moins de 50 ans**



## Mécanisme

- **Inside - out**

- **Outside – in**



Acute development of a false lumen within the coronary artery wall, which may compromise coronary flow by external compression of the true lumen. that is not associated with atherosclerosis or trauma and not iatrogenic.

**Table 1** Demographics and risk factors of patients with spontaneous coronary artery dissection (SCAD) in contemporary case series (studies with  $n > 20$ )

	Max N	Age (years)	Gender (female, %)	HTN (%)	Chol (%)	Smoking (%)	DM (%)	FH (%)	P-SCAD (%)
Mayo Clinic <sup>3</sup>	189	44 ± 9	92	31	22	15	2	NA	15
Saw <sup>4</sup>	168	52 ± 9	92	39	24	13	5	29	2
Lettieri <sup>5</sup>	125	52 ± 11	81	51	33	34	2	25	1
Faden <sup>6</sup>	79	33 ± 5	100	17	18	17	4	NA	100
Rogowski <sup>7</sup>	64	53 ± 11	94	45	52	8	0	19	5
Nakashima <sup>8</sup>	63	46 ± 10	94	23	33	32	0	8	8
Motrenos <sup>9</sup>	55	50	100	27	11	22	4	22	4
McGrath-Cadell <sup>9</sup>	40	45 ± 10	95	18	10	8	5	28	8
Prinz <sup>10</sup>	3	47 ± 12	94	NA	NA	NA	NA	NA	15
Johnson <sup>11</sup>	27	52 ± 10	85	37	33	52	4	NA	4
Ito <sup>12</sup>	23	45 ± 11	100	57	22	30	4	NA	30
Vanzetto <sup>14</sup>	23	46 ± 9	74	26	39	43	13	13	0
Mortensen <sup>15</sup>	22	49 ± 9	81	38	NA	57	0	40	10
Rashid <sup>16</sup>	21	53 ± 9	95	48	48	47	5	24	0

Data are given as mean ± standard deviation or percentages.

HTN, hypertension; Chol, dyslipidaemia; DM, diabetes mellitus; FH, family history of coronary artery disease; NA, not available; P-SCAD, pregnancy-associated coronary artery dissection.

**Peu ou pas de FDR cardio vasculaires**



## AH A SCIENTIFIC STATEMENT

**Spontaneous Coronary Artery Dissection: Current State of the Science: A Scientific Statement From the American Heart Association**

 Circulation: Cardiovascular Interventions  
 Volume 7, Issue 5, October 2014; Pages 645-655  
<https://doi.org/10.1161/CIRCINTERVENTIONS.114.001780>


## CARDIAC CATHETERIZATION

**Spontaneous Coronary Artery Dissection**

Association With Predisposing Arteriopathies and Precipitating Stressors and Cardiovascular Outcomes

**Table 2. Conditions and Factors Associated With SCAD**

Associated Condition or Factor	Reported Prevalence in Cohort Studies, %
Fibromuscular dysplasia	25–86 <sup>9,29,33,34</sup>
Pregnancy	8 <sup>8,9,13,33</sup>
Multiparity (≥4 births)	8.9–10 <sup>13,33</sup>
Inherited arteriopathy and connective tissue disorder (see Table 4)	1.2–3.0 <sup>8,13</sup>
Marfan syndrome, Loeys-Dietz syndrome, vascular Ehlers-Danlos syndrome, α <sub>1</sub> -antitrypsin deficiency, polycystic kidney disease	
Exogenous hormones	10.7–12.6 <sup>8,13</sup>
Oral contraceptives, postmenopausal therapy, infertility treatments, testosterone, corticosteroids	
Systemic inflammatory disease	<1–8.9 <sup>9,13</sup>
Systemic lupus erythematosus, Crohn disease, ulcerative colitis, polyarteritis nodosa, sarcoidosis, Churg-Strauss syndrome, Wegener granulomatosis, rheumatoid arthritis, Kawasaki disease, celiac disease	
Migraine headache	NR
Coronary artery spasm	NR

Precipitating factors	>50% Patients recall a precipitating factor
Intense exercise (isometric or aerobic)	
Intense Valsalva	
Retching, vomiting, bowel movement, coughing, lifting heavy objects	
Intense emotional stress	
Labor and delivery	
Recreational drugs (cocaine, methamphetamines)	
Exogenous hormones/hormone modulators	
β-hCG injections, corticosteroid injections, clomiphene	

hCG indicates human chorionic gonadotropin; NR, not reported; and SCAD, spontaneous coronary artery dissection.

# La dysplasie fibromusculaire

Une maladie non athérosclérotique et non inflammatoire des parois artérielles,

Touche les femmes d'âge moyen, peu de facteurs de risque cardiovasculaire.

La dysplasie fibromusculaire peut entraîner une **sténose**, **des dissections et des anévrismes des artères de taille moyenne**, y compris, mais sans s'y limiter, les **artères rénales, cervicocéphaliques et viscérales**.

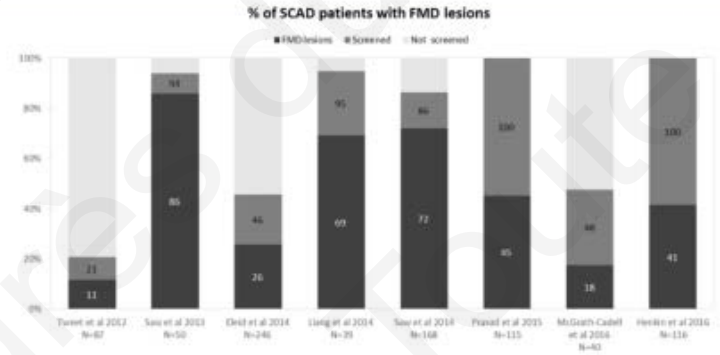


Figure 4 Prevalence of extracoronary lesions of fibromuscular dysplasia in contemporary series of spontaneous coronary artery dissection patients.

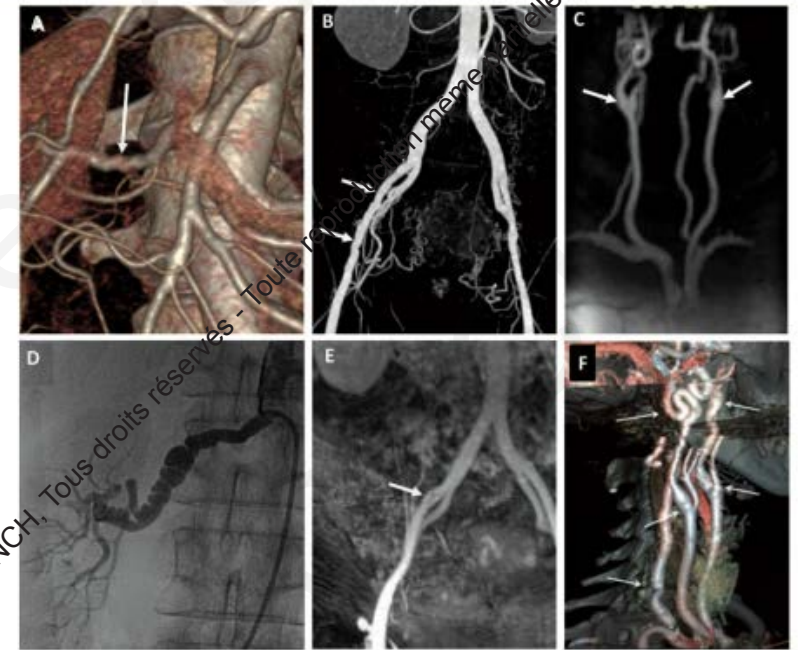


Figure 3 Extracoronary abnormalities in spontaneous coronary artery dissection including renal (A and D) and femoral (B) fibromuscular dysplasia, carotid and vertebral basilar aneurysms and tortuosity (C and F) and a localised iliac dissection (E).





## Grossesse / post partum et Dissection coronaire spontanée

- Le P-SCAD représente **5% à 17%** de l'ensemble des cas de SCAD
- **Première cause** d'IDM associé à la grossesse (14,5% à 43%)
- La majorité (>70%) survient dans le post-partum, le plus souvent au cours de la première semaine
- Facteurs prédisposons: multiparité , traitements antérieurs de la stérilité , pré-éclampsie

- Des **présentations cliniques plus sévères** avec une altération de la fonction ventriculaire gauche, un choc, une dissection principale gauche et une dissection multi-vaisseaux

**TABLE 2 Pregnancy-Associated Spontaneous Coronary Artery Dissection**

First Author, Year (Ref. #)	N	Design	Mean ± Age at SCAD (yrs)	Mean Gravidity	Left Main SCAD (%)	Multivessel SCAD (%)	Cardiac Function
Higgins et al., 2013 (96)	47	Case series	33.5 ± 5.3	2.7	36	34	Hemodynamically unstable*: 21%
Havakuk et al., 2017 (32)	120	Case series	34 ± 4	—	36	40	LVEF <40%: 44%
Koller et al., 1998 (69)	43	Case series	33.5 ± 5.3	3.1	18	18	—
Koul et al., 2009 (31)	58	Case series	33	2.1	24	40	—
Tweet et al., 2017 (30)	54	Registry cohort	35 ± 4	3.2	24	33	LVEF <35%: 26%
Faden et al., 2016 (38)	79	Population-based cohort†	33 ± 5.2	—	—	—	Cardiogenic shock: 20%

\*3 patients underwent cardiac transplantation in this series. †National Inpatient Sample administrative database  
LVEF = left ventricular ejection fraction; SCAD = spontaneous coronary artery dissection.

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Oral contraceptives, postmenopausal therapy, infertility treatments, testosterone, corticosteroids	
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Migraine headache	NR
Coronary artery spasm	NR



AH Scientific Statement

**Spontaneous Coronary Artery Dissection: Current State of the Science: A Scientific Statement From the American Heart Association**

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CARDIAC CATHETERIZATION

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Precipitating factors	>50% Patients recall a precipitating factor
Intense exercise (isometric or aerobic)	
Intense Valsalva	
Retching, vomiting, bowel movement, coughing, lifting heavy objects	
Intense emotional stress	
Labor and delivery	
Recreational drugs (cocaine, methamphetamines)	
Exogenous hormones/hormone modulators	
β-hCG injections, corticosteroid injections, clomiphene	

hCG indicates human chorionic gonadotropin; NR, not reported; and SCAD, spontaneous coronary artery dissection.



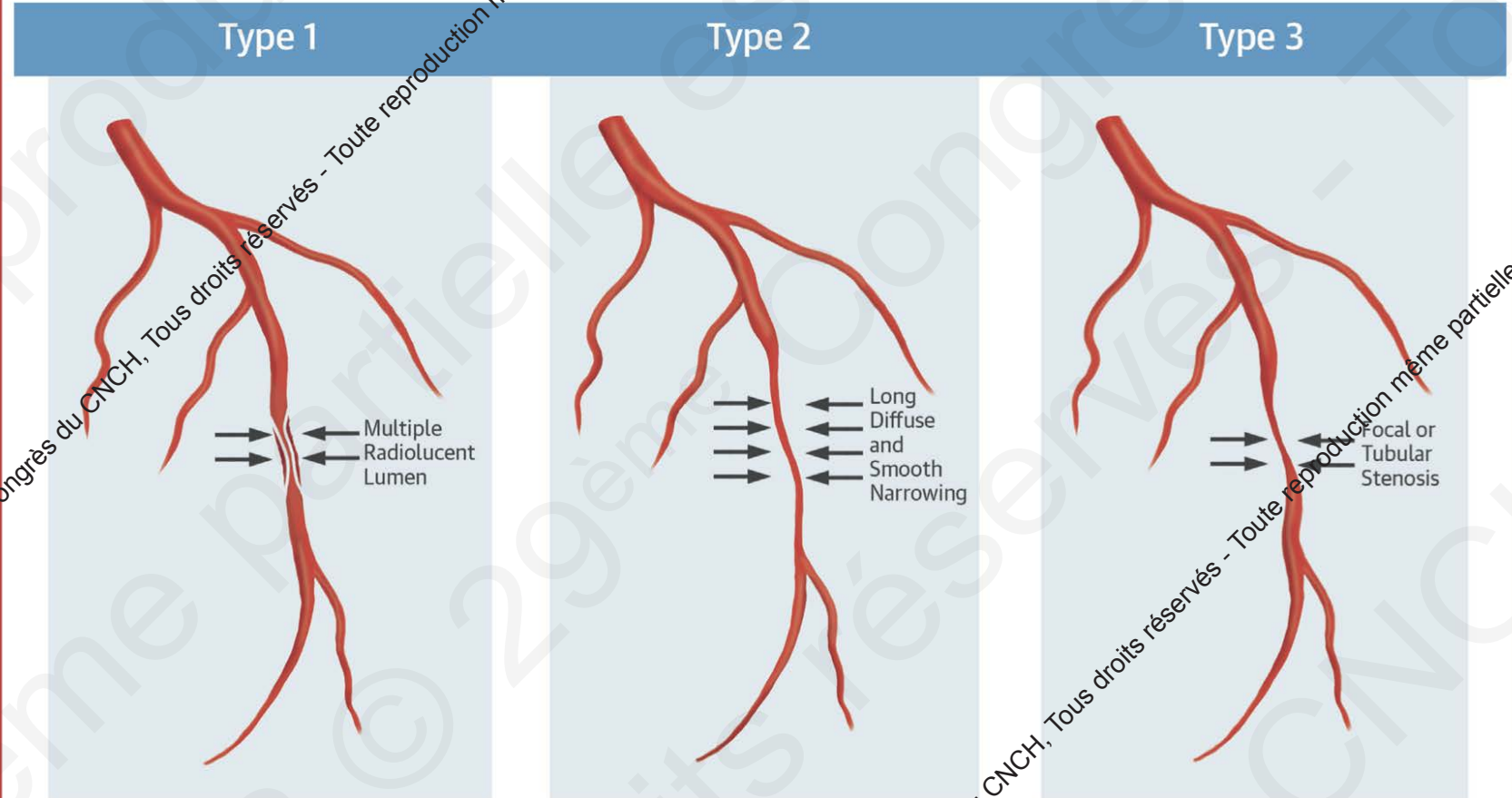
**Table 2 Hospital presenting characteristics**

Median (Q1–Q3) or n (%)	N = 750
Acute coronary syndrome	
STEMI	223 (29.7)
<b>NSTEMI</b>	<b>524 (69.9)</b>
Unstable angina	3 (0.4)
Presenting main symptom	
Chest discomfort	686 (91.5)
Back discomfort	15 (2.0)
Shoulder or arm discomfort	10 (1.3)
Dyspnoea	7 (0.9)
Arrhythmia	8 (1.1)
Other	24 (3.2)
Ventricular tachycardia or fibrillation	61 (8.1)
Left ventricular function assessment	
Ejection fraction assessed	737 (98.2)
Angiogram	491 (65.5)
Echocardiogram	243 (32.4)
Initial ejection fraction (%)	55 (50–60)
<b>Ejection fraction &lt;50%</b>	<b>188/734 (25.6)</b>
Ejection fraction <35%	28/734 (3.8)

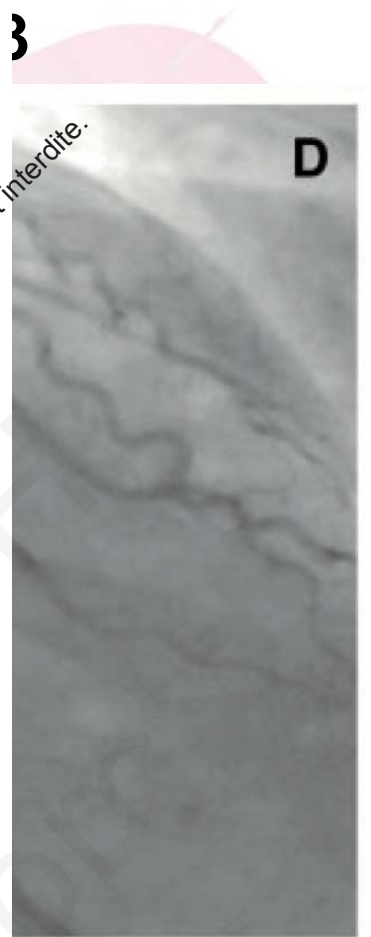
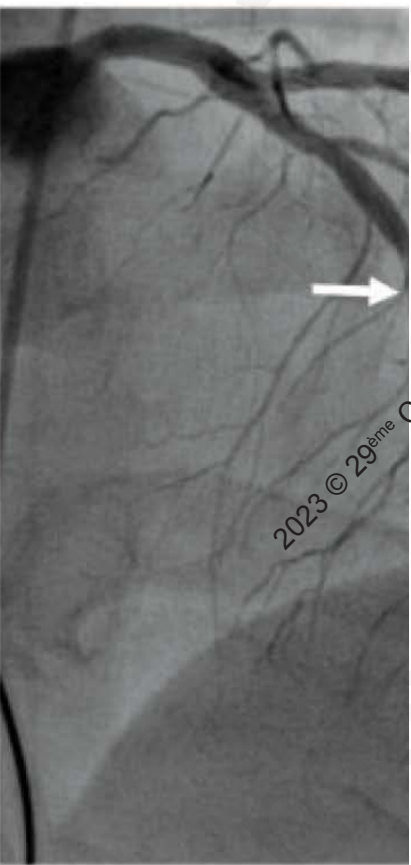


# Classification des Dissections coronaires spontanées

## CENTRAL ILLUSTRATION SCAD Classification



Saw, J. et al. J Am Coll Cardiol. 2017;70(9):1148-58.



Typ

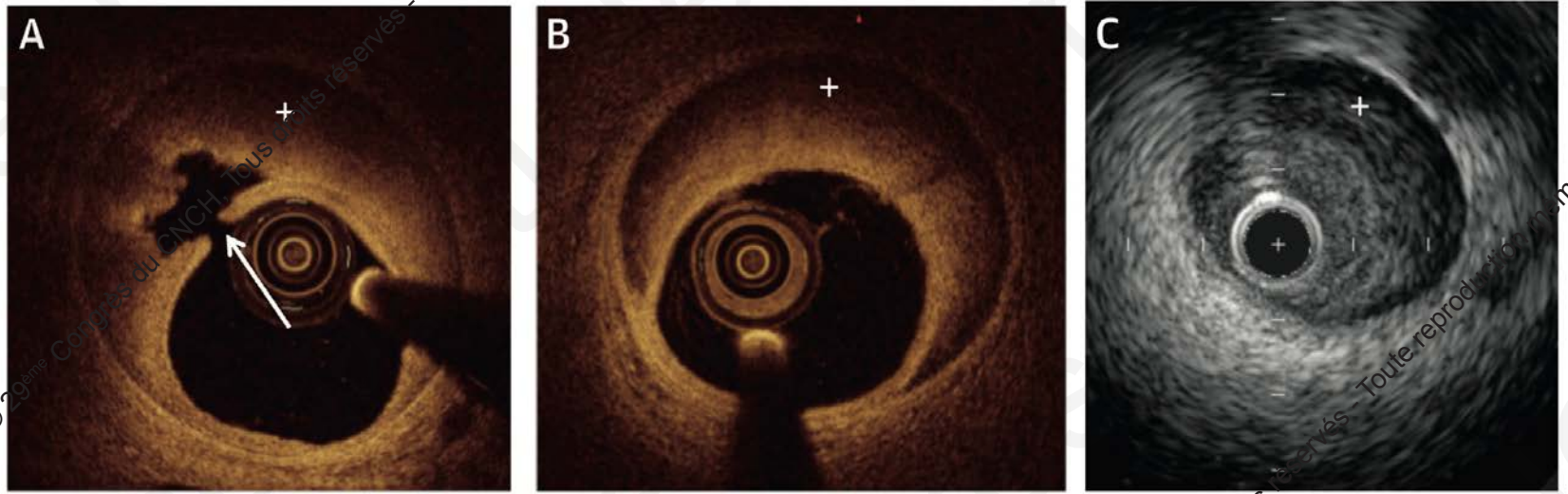
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# Imagerie endo coronaire

**FIGURE 5** Intracoronary Imaging of SCAD



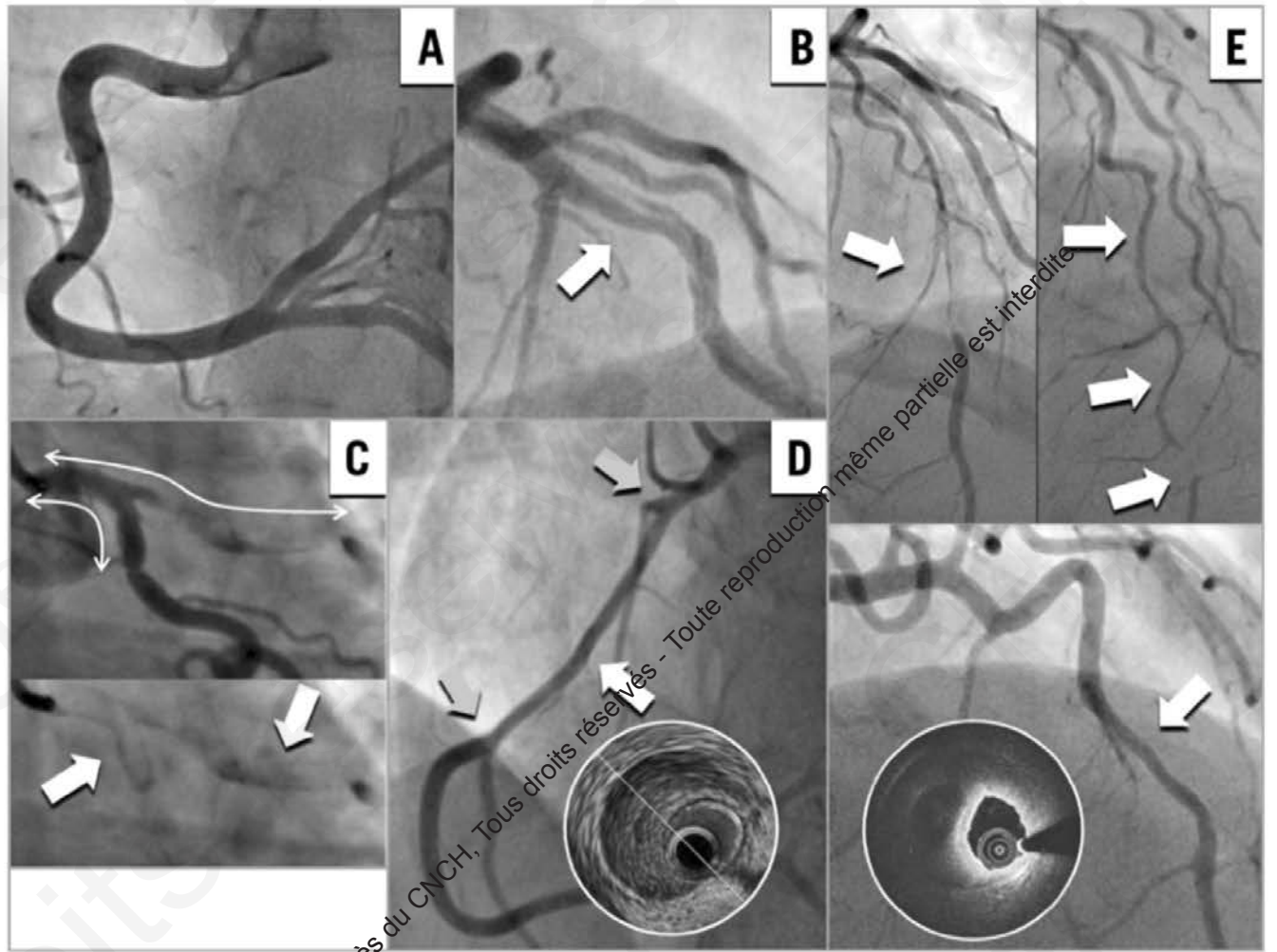
**(A)** OCT image showing false lumen with intramural hematoma (IMH) (**plus sign**) and intimal rupture (**arrow**). **(B)** OCT image showing false lumen with IMH (**plus sign**). **(C)** IVUS image showing false lumen with IMH (**plus sign**). Abbreviations as in **Figures 1 and 4**.



How and when to suspect spontaneous coronary artery dissection: novel insights from a single-centre series on prevalence and angiographic appearance

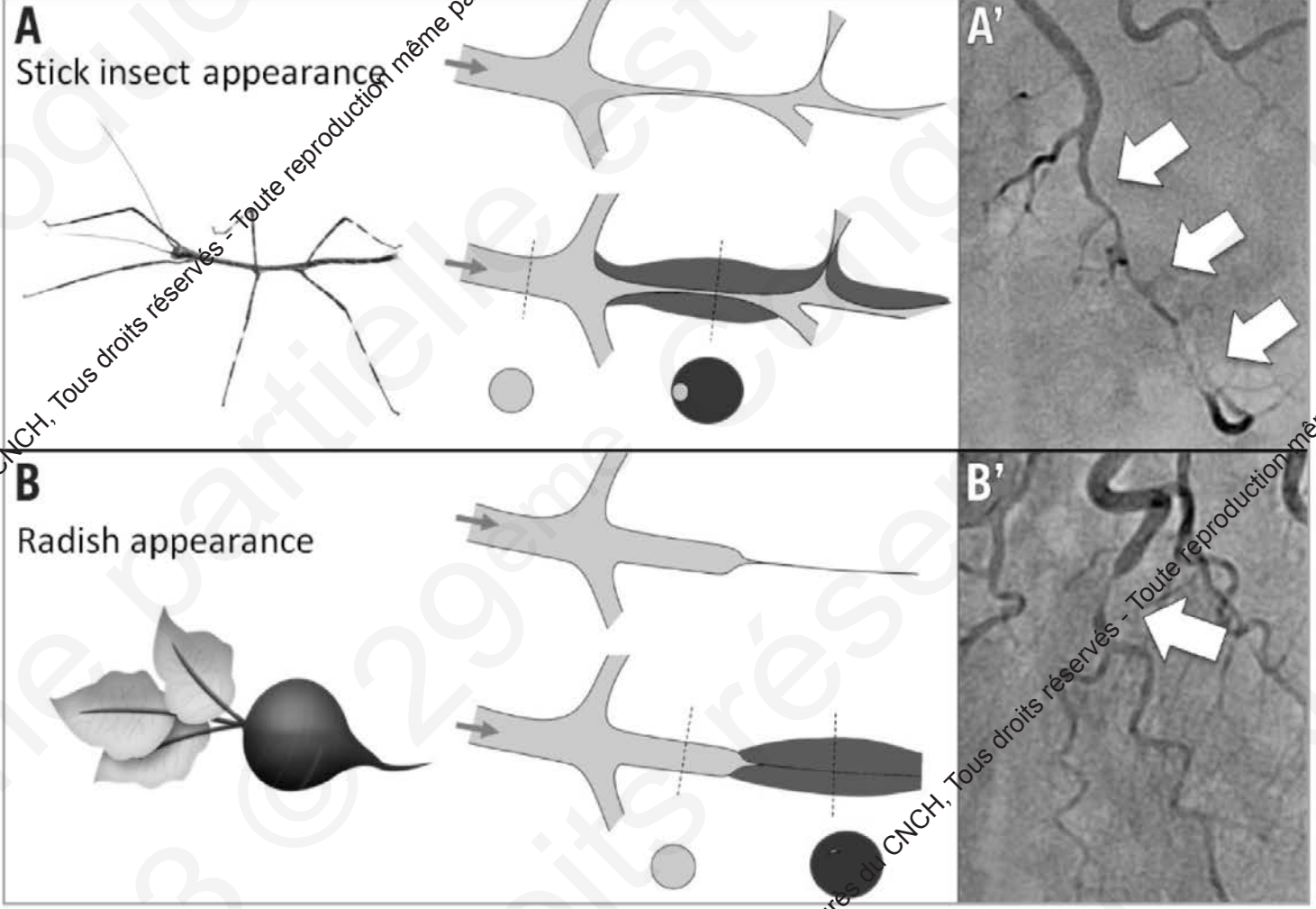
### 5 signes angiographiques

- A. Absence d'athérome
- B. Flap intimal
- C. Tatouage du contraste
- D. Debut et/ou fin sur collatérales
- E. Réduction longue et lisse du calibre



Motreff P, Eurointervention 2017





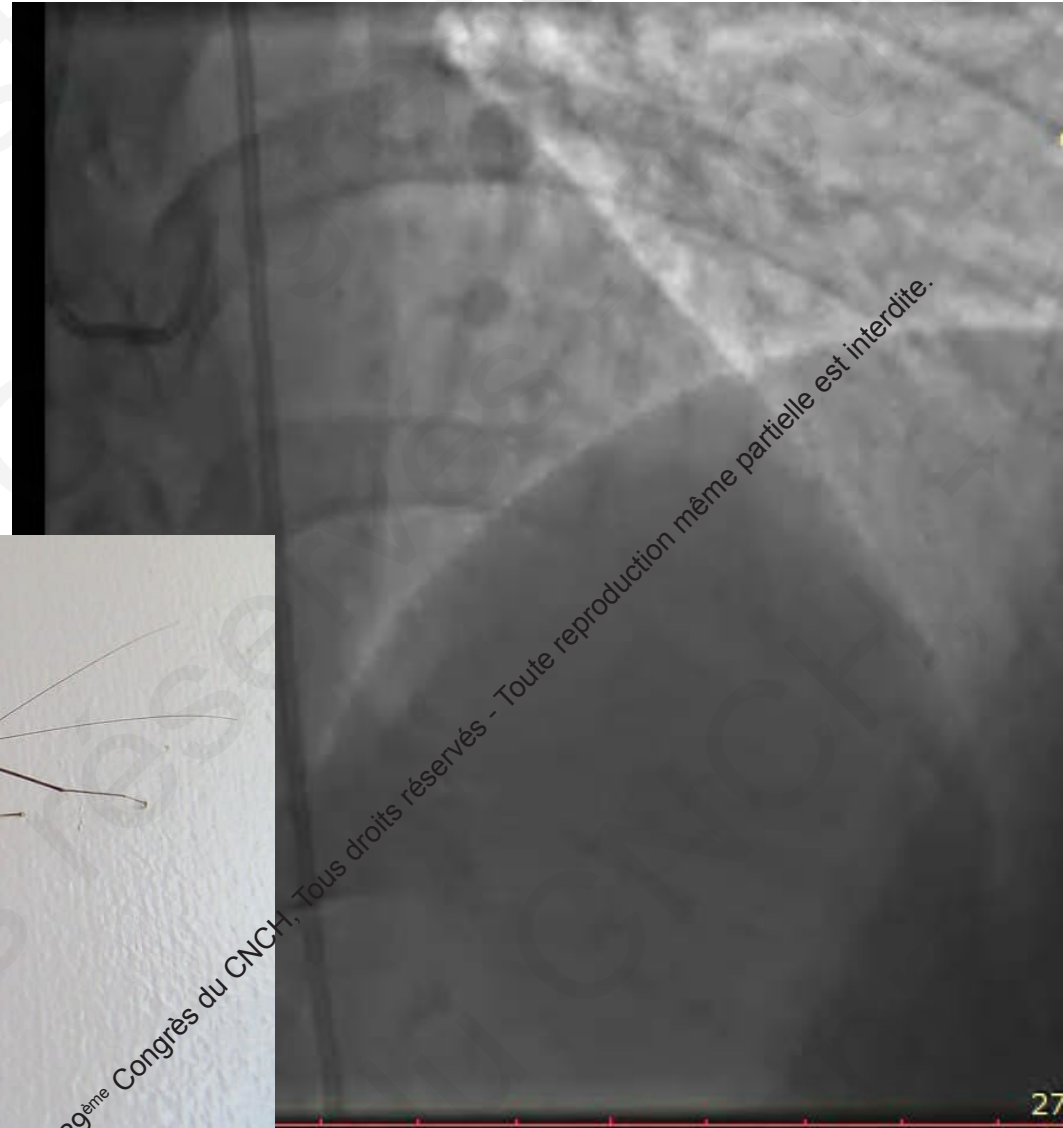
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Motreff P, Eurointervention 2017

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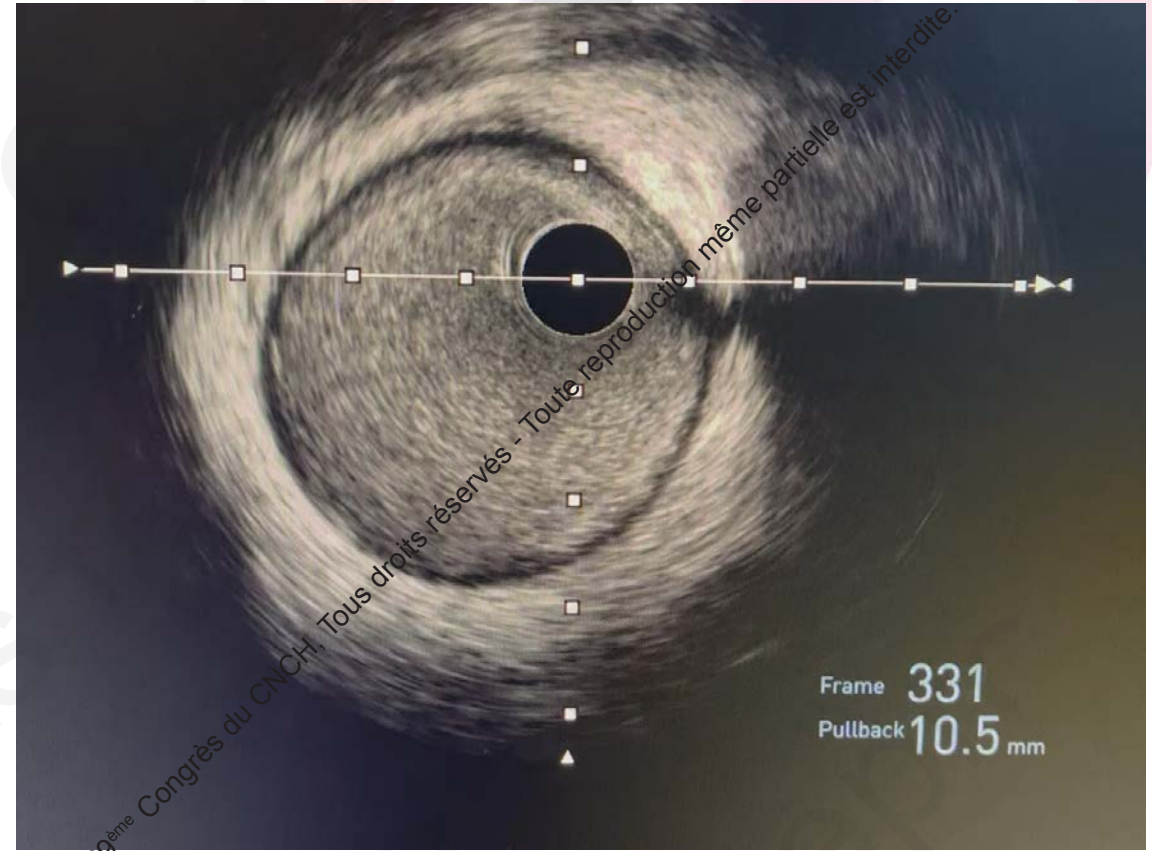
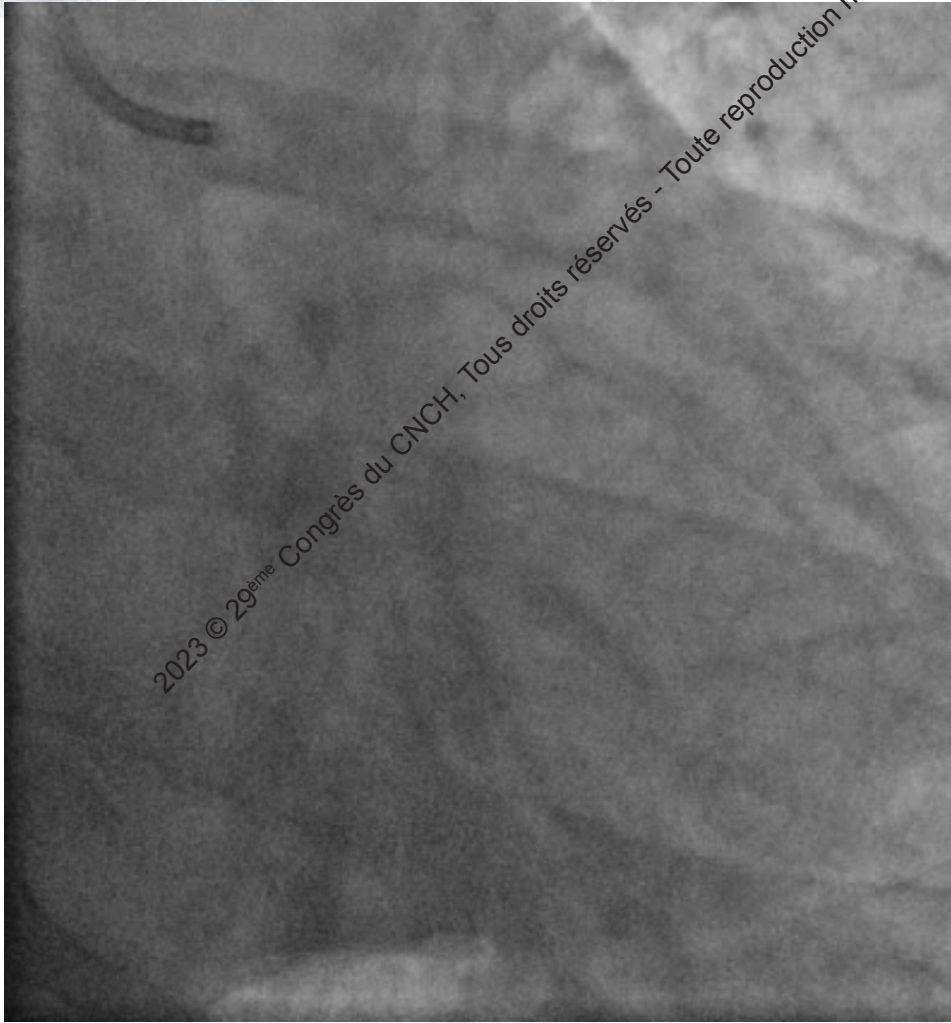


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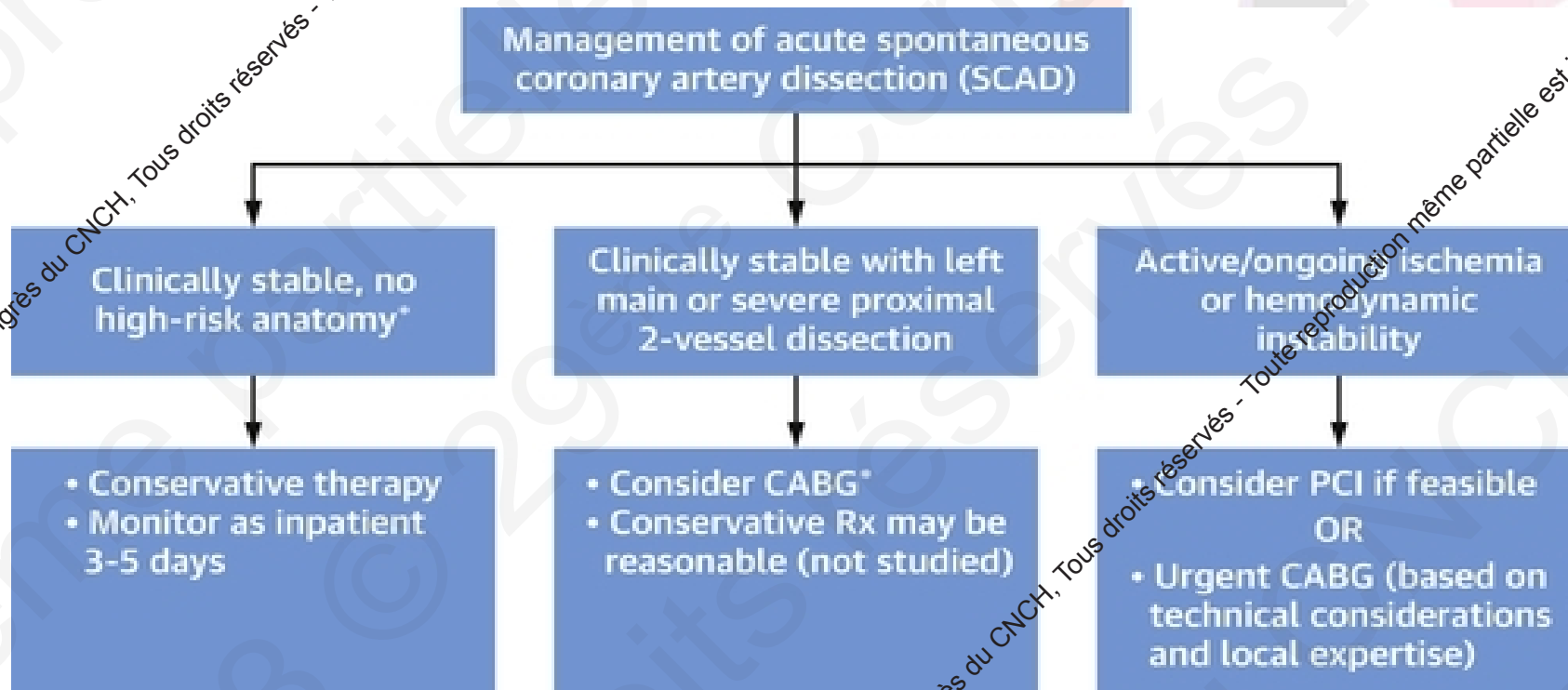


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# Quelle prise en charge ?

## Traitement conservateur +++



Sharonne N. Hayes et al. *J Am Coll Cardiol* 2020; 76:961-984.



# Natural History of Spontaneous Coronary Artery Dissection With Spontaneous Angiographic Healing

Saber Hassan, MD, Roshan Prakash, MD, Andrew Starovoytov, MD, Jacqueline Sawin, MD

## ABSTRACT

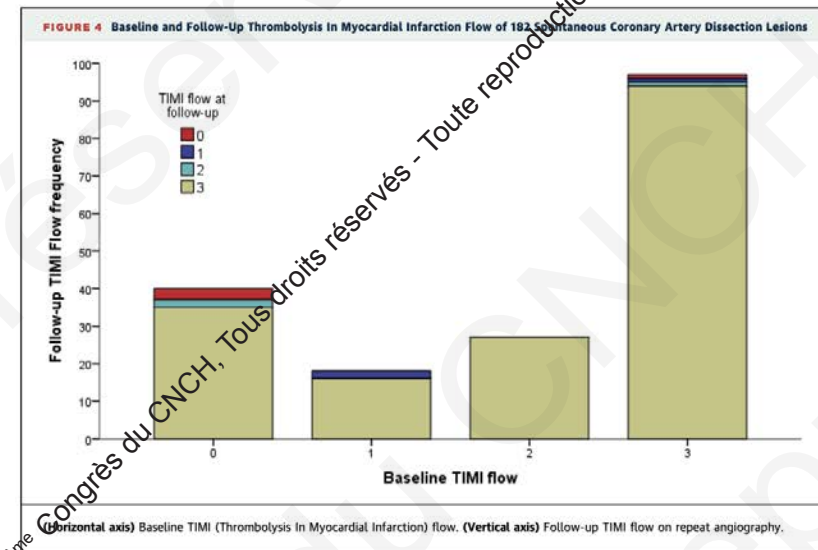
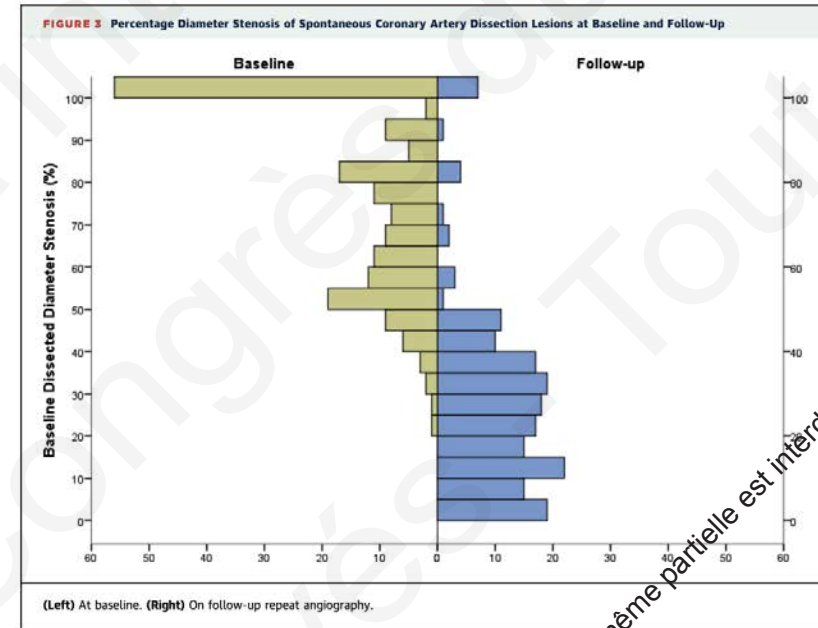
**OBJECTIVES** Given the uncertainty regarding the degree and prevalence of spontaneous healing following spontaneous coronary artery dissection (SCAD), the aim of this study was to assess the angiographic characteristics of the dissected segments in a large cohort of patients with SCAD who underwent subsequent repeat coronary angiography.

**BACKGROUND** SCAD is an uncommon yet important cause of myocardial infarction in women. Very little is known about the characteristics of healing of dissected arteries.

**METHODS** Patients with nonatherosclerotic SCAD followed prospectively at Vancouver General Hospital who underwent repeat angiography were included in this study. Those who underwent percutaneous coronary intervention for SCAD were excluded. Baseline patient demographics and in-hospital and long-term cardiovascular events were recorded. Angiographic characteristics of the SCAD artery at index and repeat angiography were assessed by 2 experienced angiographers. Criteria for angiographic healing were as follows: 1) improvement of stenosis severity from index event; 2) residual stenosis <50%; and 3) TIMI (Thrombolysis In Myocardial Infarction) flow grade 3.

**RESULTS** One hundred fifty-six patients with 182 noncontiguous SCAD lesions were included. The mean age was  $51.5 \pm 8.7$  years, 88.5% were women, 83.3% were Caucasian, and 75.6% had fibromuscular dysplasia. All patients presented with myocardial infarction. At index angiography, type 2 SCAD was most commonly observed, in 126 of 182 lesions (69.2%); TIMI flow grade <3 was present in 85 of 182 (46.7%); and median lesion stenosis was 79.0% (interquartile range: 56.0% to 100%). Median time to repeat angiography was 154 days (interquartile range: 70 to 604 days), with median residual lesion stenosis improving to 25.5% (interquartile range: 12.0 to 38.8 days), and TIMI flow grade <3 observed in 10 of 182 lesions (5.5%). Angiographic healing occurred in 157 of 182 lesions (86.3%). Of repeat angiography performed  $\geq 30$  days post-SCAD, 152 of 160 (95%) showed spontaneous angiographic healing.

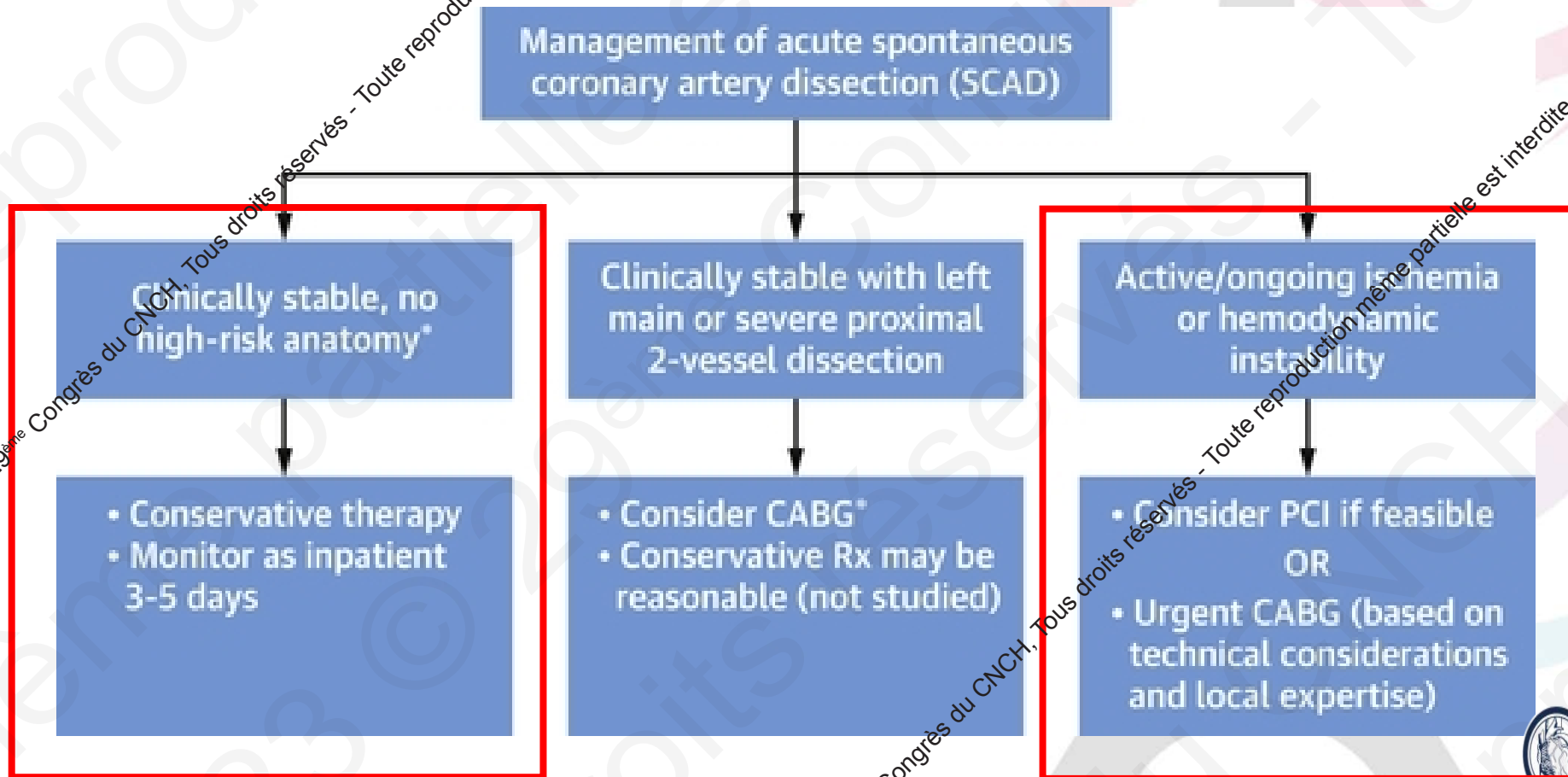
**CONCLUSIONS** The majority of coronary arteries affected by SCAD heal spontaneously on repeat angiography, with apparent time dependency, with the vast majority having complete healing after 30 days from the SCAD event. (J Am Coll Cardiol Intv 2019;12:518-27) © 2019 Published by Elsevier on behalf of the American College of Cardiology Foundation.







# Quelle prise en charge ?



Sharonne N. Hayes et al. *J Am Coll Cardiol* 2020; 76:961-984.

## CORONARY INTERVENTIONS

### Spontaneous Coronary Artery Dissection Revascularization Versus Conservative Therapy

Marysia S. Tweet, MD, Mackram F. Eleid, MD, Paul M. Heughebaert, MD, Amir Lerman, MD, Charanjit S. Rihal, MD, Mark J. Hayes, MD, and Rajiv Gulati, MD, PhD

**Background**— Spontaneous coronary artery dissection (SCAD) is a coronary syndrome for which optimal management remains unclear.

**Methods and Results**— We performed a retrospective study of 100 patients with a first SCAD episode. We evaluated outcomes according to (1) percutaneous coronary intervention (PCI) versus conservative therapy stratified by vessel flow and (2) PCI versus conservative therapy stratified by vessel flow. Outcomes were similar in revascularization versus conservative (median follow-up 1.8 years) in both groups, but vessel occlusion was more frequent in the PCI group (18/94). There was no in-hospital death (revascularization, 0%; conservative, 0%). Procedural failure rate was 53% in those managed with PCI and 100% in those managed with conservative therapy. In those presenting with preserved vessel flow, rates of PCI failure were 13% (9/69) and 13% (9/69) required emergency coronary artery bypass grafting. Of 94 (90%) had an uneventful in-hospital course, but 9 (9%) had progression requiring revascularization. Kaplan–Meier estimates of survival free of revascularization and recurrent SCAD were no different between PCI and conservative therapy (30% versus 19%;  $P=0.06$  and 23% versus 19%;  $P=0.10$ ).

**Conclusions**— PCI for SCAD is associated with high rates of procedural failure in those presenting with preserved vessel flow and does not appear to be superior to conservative therapy. A strategy of conservative management may be preferable.

Given the increased risk of adverse outcomes with PCI in SCAD, a number of less conventional interventional approaches have been reported. These include:

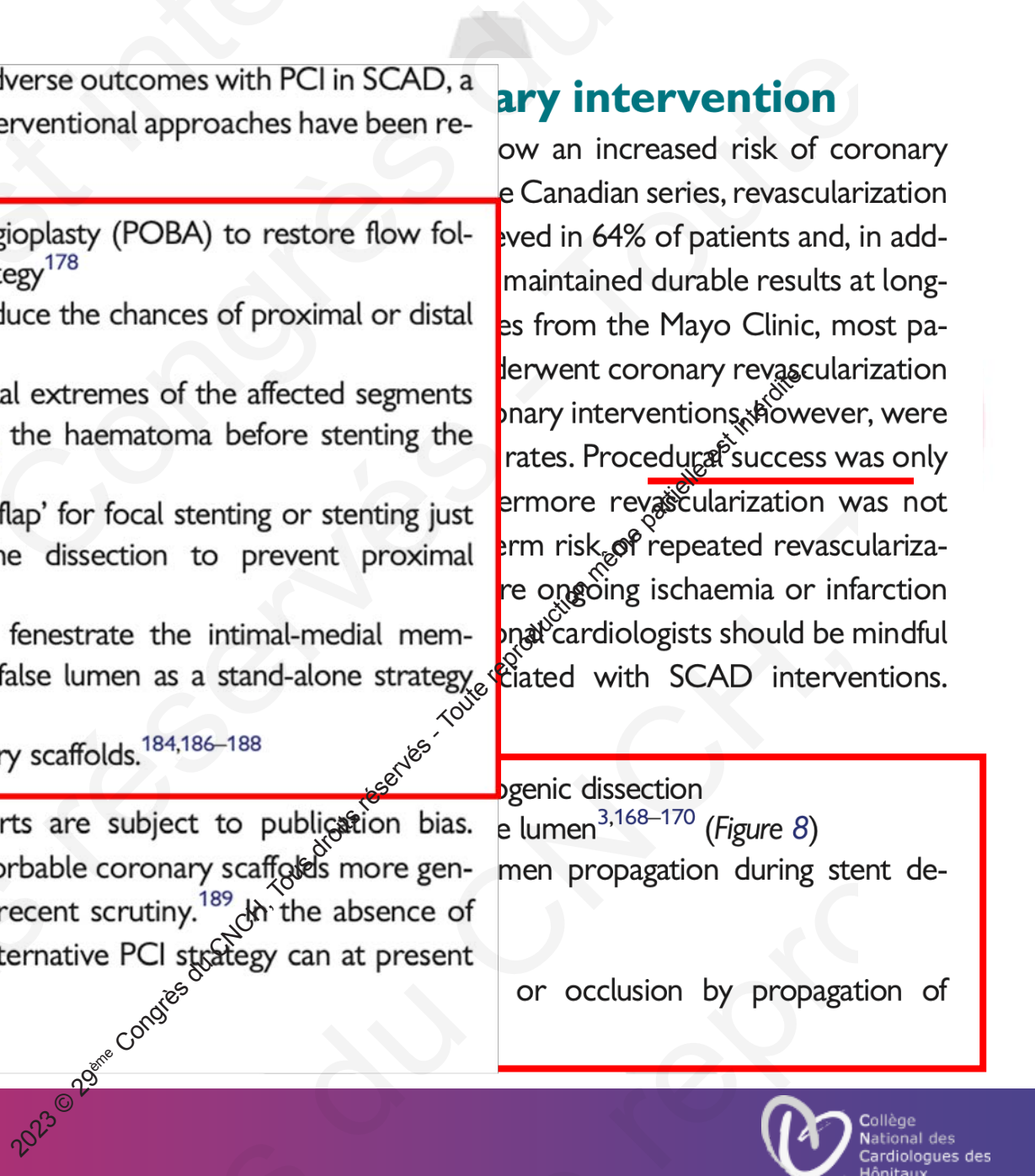
- Minimal plain old balloon angioplasty (POBA) to restore flow followed by a conservative strategy<sup>178</sup>
- Extended stent lengths to reduce the chances of proximal or distal haematoma propagation
- Sealing the proximal and distal extremes of the affected segments with short stents to restrict the haematoma before stenting the intermediate segments.<sup>179,180</sup>
- Targeting an intimal tear or ‘flap’ for focal stenting or stenting just the proximal extent of the dissection to prevent proximal propagation.<sup>8,181</sup>
- Cutting balloon inflation to fenestrate the intimal-medial membrane and depressurize the false lumen as a stand-alone strategy or prior to stenting.<sup>182–185</sup>
- Use of bioresorbable coronary scaffolds.<sup>184,186–188</sup>

These anecdotal case reports are subject to publication bias. Additionally, the role of bioresorbable coronary scaffolds more generally has been the subject of recent scrutiny.<sup>189</sup> In the absence of randomized data, no specific alternative PCI strategy can at present be specifically recommended.

## Primary intervention

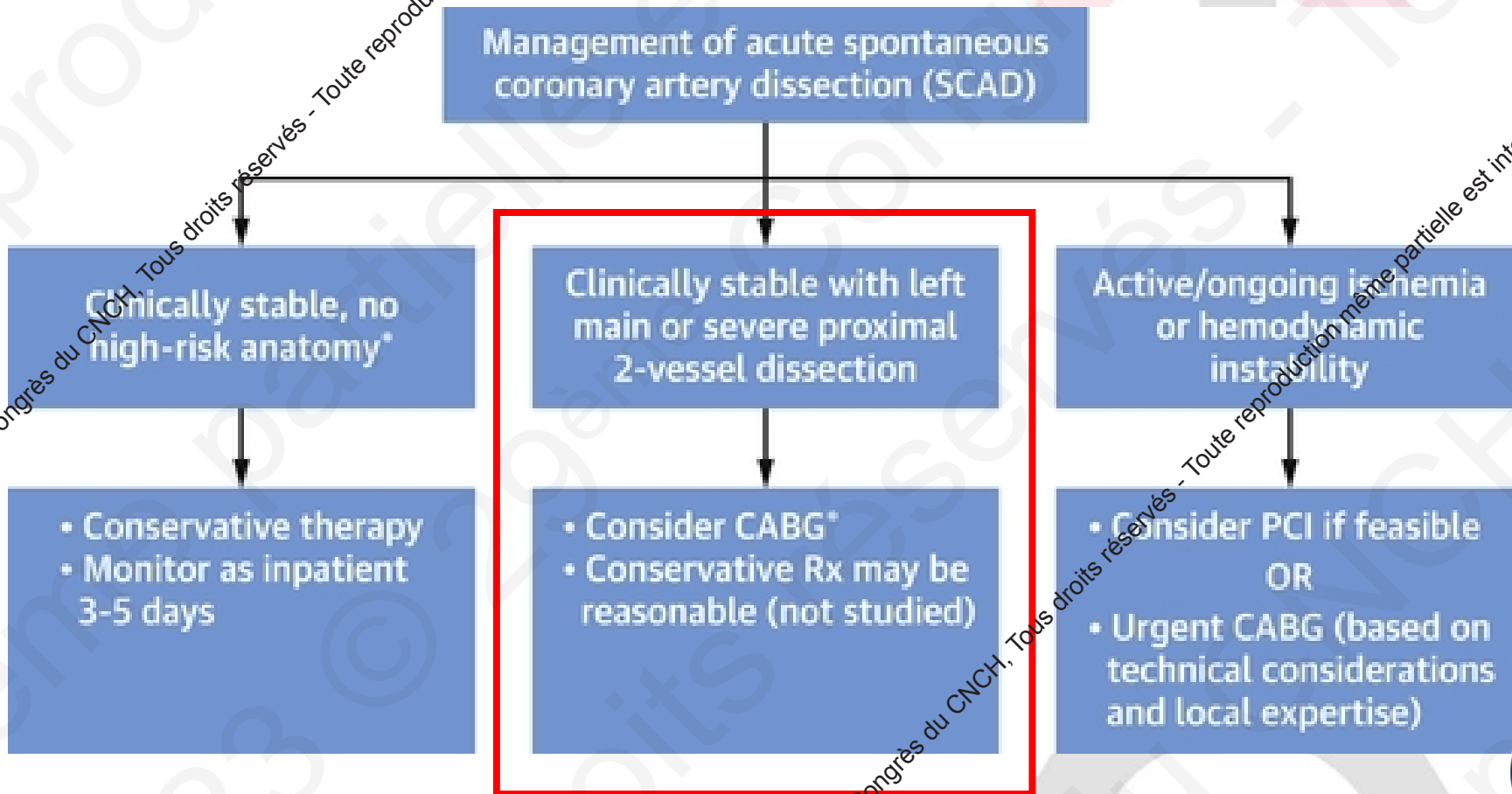
Following an increased risk of coronary artery dissection in the Canadian series, revascularization was achieved in 64% of patients and, in addition, maintained durable results at long-term follow-up. From the Mayo Clinic, most patients who underwent coronary revascularization for SCAD, but coronary interventions, however, were associated with higher procedural success rates. Procedural success was only 50% for SCAD. Furthermore, revascularization was not associated with a lower risk of repeated revascularization or ongoing ischaemia or infarction. In the absence of randomized data, primary interventional cardiologists should be mindful of the risks associated with SCAD interventions.

Spontaneous coronary artery dissection (SCAD) is a form of coronary artery dissection (CAD) in which the true lumen is occluded by propagation of thrombus and dissection during stent deployment. This is often associated with a high risk of procedural failure or occlusion by propagation of thrombus and dissection (Figure 8).





# Quelle prise en charge ?



Sharonne N. Hayes et al. *J Am Coll Cardiol* 2020; 76:961-984.





## CORONARY INTERVENTIONS

### Spontaneous Coronary Artery Dissection

#### Revascularization Versus Conservative Therapy

Marysia S. Tweet, MD, Mackram F. Eleid, MD, Patricia J.M. Best, MD, Ryan J. Lennon, MS, Amir Lerman, MD, Charanjit S. Rihal, MD, MBA, David R. Holmes, Jr, MD, Sharonne N. Hayes, MD, and Rajiv Gulati, MD, PhD

**Table 5.** Early and 5-Year Outcomes of Patients With SCAD Treated With In-Hospital CABG (Table view)

	In-Hospital CABG (n=20)
Early outcomes, n	
Death	1
SCAD vessels not bypassed	2/34
Five-year outcomes, n (Kaplan–Meier % estimates)	
Death	0
Recurrent SCAD	1 (10)
Heart failure	3 (19)
Target vessel revascularization	6 (36)
Graft details	
Left internal mammary artery	9
Saphenous vein	22
Radial artery	1
F-U patent grafts, n (11 angiograms, median F-U, 3.5 y; Q1–Q3, 0.7–3.7)	5/16

CABG indicates coronary artery bypass grafting; F-U, follow-up; and SCAD, spontaneous coronary artery dissection.

**Table 3.** Early and 5-Year Outcomes With Comparison According to Treatment Strategy: Revasc by CABG or PCI vs Con therapy (Table view)

	All (n=189)	Revasc (n=95)	Con (n=94)	P Value (Revasc vs Con)
Early outcomes, %				
Death	0.5	1	0	>0.99
Urgent/emergent CABG*	7	13	0	0.01
Progression Rx PCI	6	4†	7†	0.37
Progression Rx convs	1	0	2	0.25
PCI procedural outcomes				
% Conventional PCI failure (residual stenosis ≥30%)	...	33	NA	NA
% SCAD-specific PCI failure	...	30	NA	NA
Mean no. of stents, n ±SD	...	2.4±1.4	NA	NA
Mean stented length, mm ±SD	...	44±29	NA	NA
Mean residual stenosis, % ±SD	...	51±40	NA	NA
Five-year outcomes (median, F-U, 2.3 y; Q1–Q3, 0.7–5.6), n (Kaplan–Meier % estimates)				
Death	2 (2)	1 (1)	1 (4)	0.92
Recurrent SCAD	29 (27)	14 (23)	15 (31)	0.70
Heart failure	13 (13)	7 (12)	6 (16)	0.47
Target vessel revascularization	38 (25)	24 (30)	14 (19)	0.06
F-U LVEF %, mean±SD†	57±10	55±11	58±9	0.09



# Oui à une attitude conservatrice, ...

## Circulation

Volume 137, Issue 19, 8 May 2018; Pages e523-e557  
<https://doi.org/10.1161/CIR.0000000000000564>

### AHA SCIENTIFIC STATEMENT

## Spontaneous Coronary Artery Dissection: Current and Future of the Science: A Scientific Statement From the American Heart Association

Sharonne N. Hayes, MD, FAHA, Chair, Esther S.H. Kim, MD, MPH, FAHA, Co-Chair, Jacqueline Saw, MD, FAHA, Co-Chair, David Adlam, BA, BM, BCh, DPhil, Cyr Arslanian-Engoren, PhD, RN, FAHA, Katherine E. Economy, MD, MPH, Santhi Ganesh, MD, FAHA, Rajiv Gulati, MD, PhD, Mark E. Lindsay, MD, PhD, FAHA, Mieres, MD, FAHA, Sahar Naderi, MD, MHS, Svati Shah, MD, MHS, FAHA, Dav Thaler, MD, PhD, FAHA, Marysia S. Tweet, MD, Malissa J. Wood, MD, and on behalf of the American Heart Association Council on Peripheral Vascular Disease; Council on Clinical Cardiology; Council on Cardiovascular and Stroke Nursing; Council on Genomic and Precision Medicine; and Stroke Council

**Abstract:** Spontaneous coronary artery dissection (SCAD) has emerged as a cause of acute coronary syndrome, myocardial infarction, and sudden death, among young women and individuals with few conventional atherosclerotic lesions. Patient-initiated research has spurred increased awareness of SCAD, and diagnostic capabilities and findings from large case series have led to changes in initial and long-term management and increasing evidence that SCAD not only is more common than previously believed but also must be evaluated and treated differently from atherosclerotic myocardial infarction. High rates of recurrent SCAD; its association with sex, pregnancy, and physical and emotional stress triggers; and concurrence with other arteriopathies, particularly fibromuscular dysplasia, highlight the differences between SCAD and atherosclerotic myocardial infarction.



ESC European Society of Cardiology  
European Heart Journal (2018) 39, 3353–3368  
doi:10.1093/eurheartj/ehy080

CURRENT OPINION  
Coronary artery disease

## European Society of Cardiology, acute cardiovascular care association, SCAD study group: a position paper on spontaneous coronary artery dissection

ESC-ACCA Position Paper on spontaneous coronary artery dissection  
Dariusz Chajczyk (UK)<sup>1</sup>, Fernando Alonso (Section Editor Spain)<sup>2</sup>, Angelika Auer (Section Editor Netherlands)<sup>3</sup>, and Christiaan Vrints (Co-Chairperson; Section Editor Belgium)<sup>4</sup>  
Writing Committee: Abteha al-Hussaini (UK)<sup>1</sup>, Hector Bueno (Spain)<sup>5,6</sup>, Piera Caporozzano (EAPCI Women, Italy)<sup>7</sup>, Sofie Gevaert (Belgium)<sup>8</sup>, Stephen Hoole (UK)<sup>9</sup>, Tom Johnson (UK)<sup>10</sup>, Corrado Lettieri (Italy)<sup>11</sup>, Michael Maeder (Switzerland)<sup>12</sup>, Pascal Motreff (France)<sup>13</sup>, Peter Ong (Germany)<sup>14</sup>, Alexandre Persu (European FMD initiative, Belgium)<sup>15,16</sup>, Hans Rickli (Switzerland)<sup>12</sup>, Francois Schiele (France)<sup>17</sup>, Mary N. Sheppard (UK)<sup>18,19</sup>, and Eva Swahn (Sweden)<sup>20</sup>

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Avis d'experts

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- **Anticoagulants**
- **Antiagrégants plaquettaires : mono ou DAPT**
- **Bétabloquants**
- **Statines**





**AHA SCIENTIFIC STATEMENT**

**Spontaneous Coronary Artery Dissection: Current State of the Science: A Scientific Statement From the American Heart Association**



ESC  
European Society of Cardiology  
European Heart Journal (2018) 39, 3353–3368  
doi:10.1093/eurheartj/ehy080

**CURRENT OPINION**

Coronary artery disease

**European Society of Cardiology, acute cardiovascular care association, SCAD study group: a position paper on spontaneous coronary artery dissection**

ESC-ACCA Position Paper on spontaneous coronary artery dissection

**Anticoagulation and Antiplatelet Therapy**

Because the pathophysiology, mechanisms of ischemia, PCI outcomes, and residual of SCAD are distinct from those associated with atherosclerotic ACS, many investigators have questioned the rationale and potential risks of using standard ACS therapies in patients with SCAD. For instance, early heparin use may provide benefit by reducing thrombus burden, but there are theoretical concerns about its use in the setting of acute SCAD presentation related to accentuating the risk of bleeding into the IMH or extension of dissection. Therefore, if systemic anticoagulation is started at hospital presentation, in the absence of other indications for systemic anticoagulation, consideration of discontinuation is appropriate once SCAD is diagnosed.<sup>190</sup>



- **Anticoagulants**
- **Antiagregants plaquettaires : mono ou DAPT**
- **Bêtabloquants**
- **Statines**

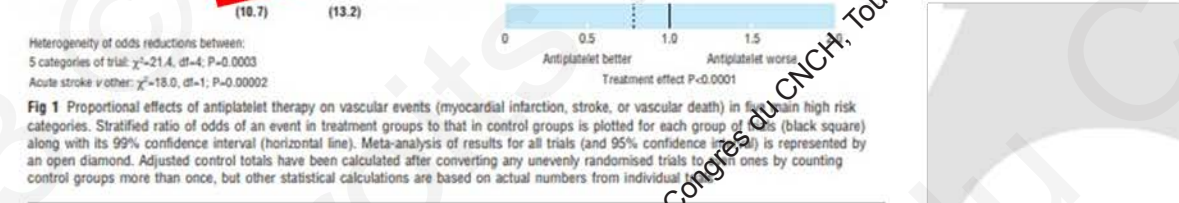
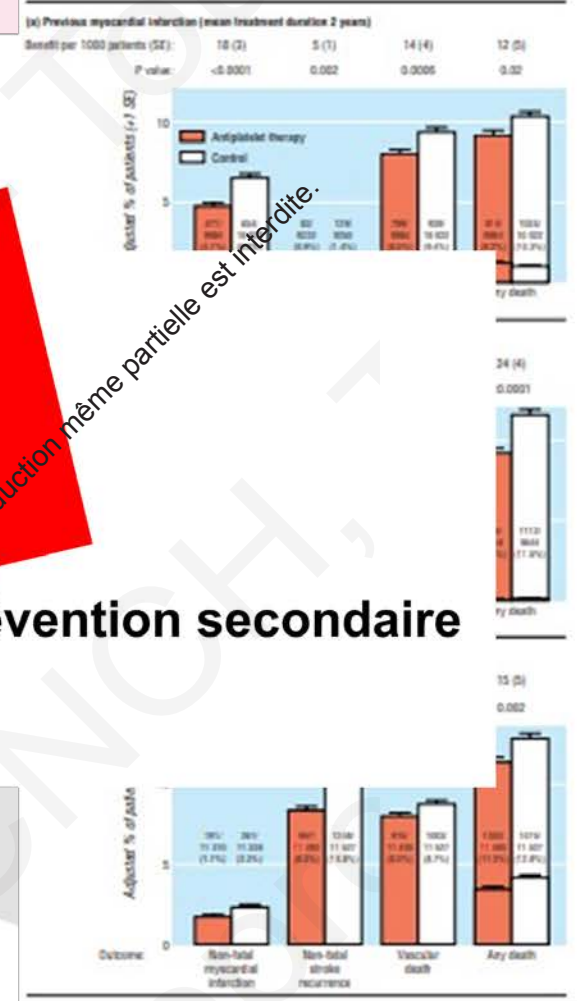
# Aspirine

## Collaborative meta-analysis of randomised trials of antiplatelet therapy for prevention of death, myocardial infarction, and stroke in high risk patients

- Profil d'effets

- Avantages

Avis d'experts



<https://doi.org/10.1136/bmj.324.7329.71>

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# Ajout d'une deuxième anti agrégant plaquettaire,

Circulation

## AHA SCIENTIFIC STATEMENT

### Spontaneous Coronary Artery Dissection: Current State of the Science

A Scientific Statement From the American Heart Association

## MEDICAL THERAPY

The ultimate goals of short- and long-term medical therapy of SCAD are to alleviate symptoms, to improve short- and long-term outcomes, and to prevent recurrent SCAD. Unfortunately, there is a substantial lack of evidence to guide clinicians in this regard because of the relatively recent recognition of SCAD as a distinct clinical entity and the absence of identified cellular or molecular targets or randomized controlled trials to support an evidence-based approach. Given the paucity of evidence currently available, the following approaches are based largely on expert opinions derived from the clinical experience of members of the writing group.

### Anticoagulation and Antiplatelet Therapy

Because the pathophysiology, mechanisms of ischemia, PCI outcomes, and residual risk of SCAD are distinct from

...dual antiplatelet therapy after PCI.<sup>156</sup> Clear evidence supporting the use of dual-antiplatelet therapy in patients with SCAD who do not undergo coronary intervention is lacking. Although theoretical benefits of early dual-antiplatelet therapy in SCAD include protection

**Pas de recommandations formelles**

tively. Bleeding complications were not reported, but long-term outcomes in both groups were similar.<sup>10</sup>

Most experts recommend aspirin use for at least 1 year and frequently indefinitely after SCAD in patients who receive medical treatment, in the absence of contraindications.<sup>10,31,190,191</sup> In light of increased bleeding risks with antiplatelet agents, especially menorrhagia in premenopausal women, and uncertain benefits and risks, individual selection of suitability for dual-antiplatelet therapy and aspirin therapy in conservatively managed survivors of SCAD is indicated.

## European Society of Cardiology, acute cardiovascular care association, SCAD study group: a position paper on spontaneous coronary artery dissection

...duration of treatment recommended in SCAD. This represents a strength of existing data and a different concern (albeit underlying bleeding time for a candidate an intramural bleed.<sup>145</sup> Symptomatic menorrhagia which is common in young women of reproductive age taking antiplatelet therapy should receive dual antiplatelet or lifelong monotherapy with current ACS

guidelines.<sup>206</sup> In patients managed conservatively, there is evidence from OCT studies of high grade stenosis sometimes with true luminal thrombus in association with SCAD.<sup>30,166</sup> This provides justification for antiplatelet therapy in the acute phase and most authors advocate acute dual antiplatelet therapy (usually with aspirin and clopidogrel rather than the newer P2Y12 inhibitors and avoiding intravenous antiplatelet therapies).<sup>19,106,108</sup> The optimal duration of dual and subsequent monotherapy remains unknown with some authors advocating lifelong aspirin<sup>19,108</sup> and others questioning this approach.<sup>106</sup>

# Durée de la DAPT, controversée

## Original Studies

**Spontaneous  
Angiogram  
Outcome in a F**

Sebastian Rogo  
Philipp K. Haager, MD, F

**DAPT pendant 12 mois**

R.0000000000000564.

**Spontaneous C  
Science:**

**A Scientific Statement**

**DAPT pendant 1 à 3 mois**

Sharonne N. Hayes, M  
Jacqueline Saw, MD, FAHA  
Arslanian-Engoren, PhD, RN, FAHA  
MD, FAHA, Rajiv Gulati, MD, PhD, M  
FAHA, Sahar Naderi, MD, MHS, Sva  
FAHA, Marysia S. Tweet, MD, and N  
Association Council on Peripheral  
Council on Cardiovascular and Str  
Medicine; and Stroke Council

**Spontaneous**

**Original Invest**

Jacqueline Sa

J Am Coll Cardiol. 2017 Aug, 70 (9):1148-1158

**DAPT jusqu'à guérison prouvée de la DSC**

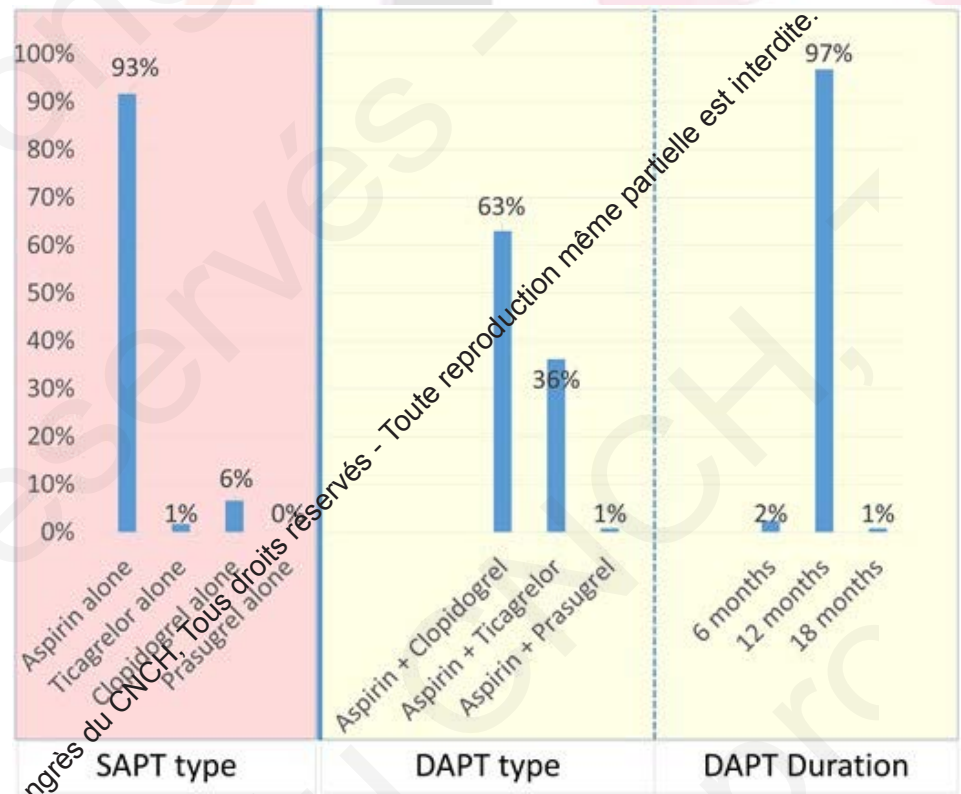
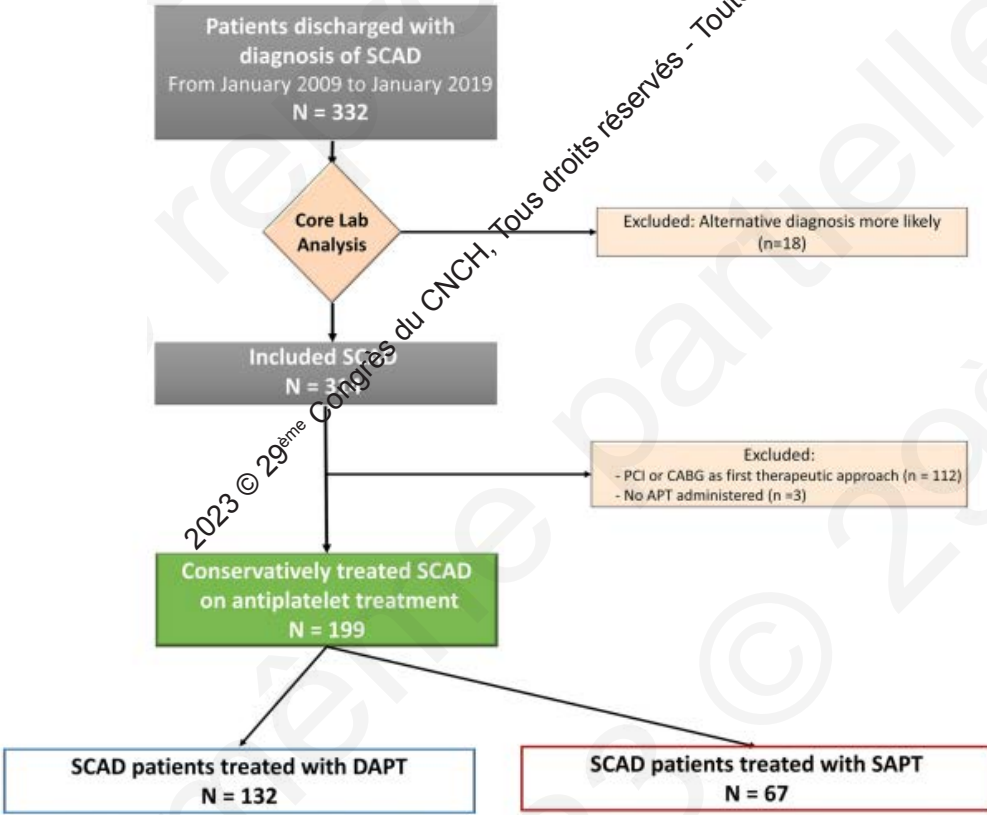


**International DISCO SCAD Registry**  
 SCAD conservatively treated\* (n=199)

Antiplatelet regimen according to physician's choice

**DAPT**  
 N = 132 (66%)

**SAPT**  
 N = 67 (34%)



doi.org/10.1093/eurheartj/ehab372



# Une preuve pour un bénéfice incertain

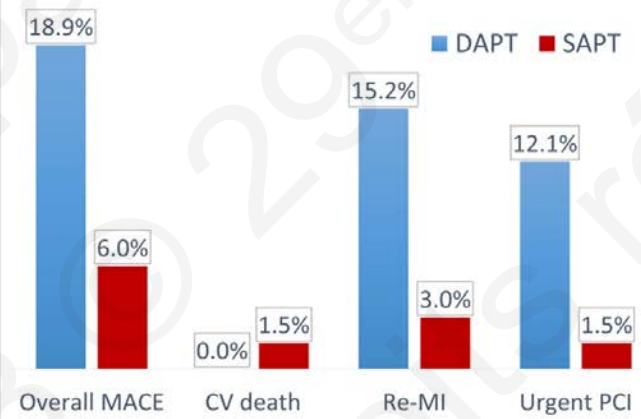
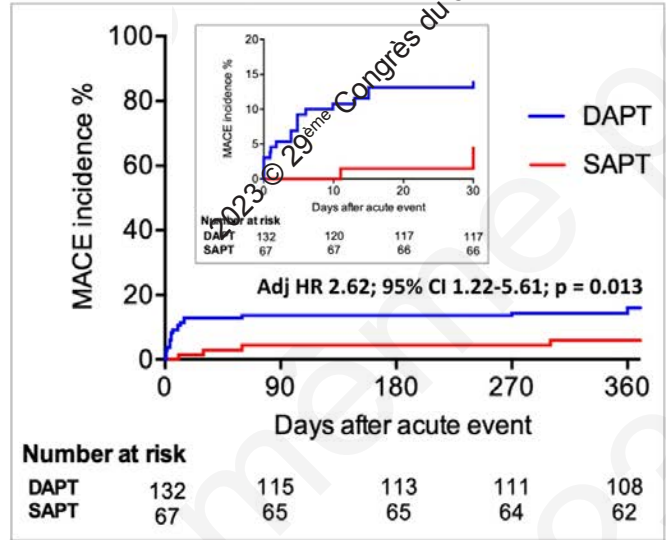


## International DISCO SCAD Registry SCAD conservatively treated\* (n=199)

Antiplatelet regimen according to physician's choice

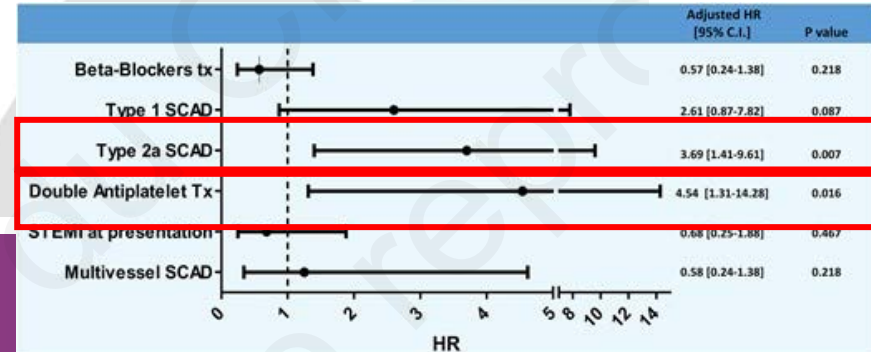
**DAPT**  
N = 132 (66%)

**SAPT**  
N = 67 (34%)



	Overall (N=199)	DAPT (N=132)	SAPT (N=67)	P-value
<b>In-hospital events</b>				
Overall MACE	16 (8.0)	15 (11.4)	1 (1.5)	0.016
All-cause death	1 (0.5)	0	1 (1.5)	—
Non-fatal MI	11 (5.5)	11 (8.3)	0	—
Any unplanned PCI	14 (7.0)	14 (10.6)	0	—
Bleeding	2 (1.0)	2 (1.5)	0	—
BARC 1	1 (0.5)	1 (0.7)	0	—
BARC 2	1 (0.5)	1 (0.7)	0	—
<b>12-month events</b>				
Overall MACE	29 (14.6)	25 (18.9)	4 (6.0)	0.013
All-cause death	1 (0.5)	0	1 (1.5)	—
Non-fatal MI	22 (11.1)	20 (15.2)	2 (3.0)	0.009
Any unplanned PCI	17 (8.5)	16 (12.1)	1 (1.5)	0.010
Bleeding	15 (7.5)	12 (9.1)	3 (4.5)	0.24
BARC 1	10 (5.0)	7 (5.3)	3 (4.5)	1.00
BARC 2	5 (2.5)	5 (3.8)	0	—

### In-hospital and 1-year major adverse cardiovascular events



- **Anticoagulants**
- **Antiagrégants plaquettaires : mono ou DAPT**
- **Bétabloquants**
- **Statines**

# Spontaneous Coronary Artery Dissection

## Clinical Outcomes and Risk of Recurrence

Jacqueline Saw, MD,<sup>a</sup> Karin Humphries, DSc,<sup>b</sup> Eve Aymong, MD,<sup>c</sup> Tara Sedlak, MD,<sup>a</sup> Roshan Prakash, MD,<sup>a</sup> Andrew Starovoytov, MD,<sup>a</sup> G.B. John Mancini, MD<sup>a</sup>

### ABSTRACT

**BACKGROUND** Spontaneous coronary artery dissection (SCAD) is underdiagnosed and an important cause of myocardial infarction (MI), especially in young women. Long-term cardiovascular outcomes, including recurrent SCAD, are inadequately reported.

**OBJECTIVES** This study sought to describe the acute and long-term cardiovascular outcomes and assess the predictors of recurrent SCAD.

**METHODS** Nonatherosclerotic SCAD patients were prospectively followed at Vancouver General Hospital systematically to ascertain baseline, predisposing and precipitating stressors, angiographic features, revascularization, use of medication, and in-hospital and long-term cardiovascular events. Clinical predictors for recurrent de novo SCAD were tested using univariate and multivariate Cox regression models.

**RESULTS** The authors prospectively followed 27 SCAD patients. Average age was  $52.5 \pm 9.6$  years, and 90.5% were women (56.9% postmenopausal). All presented with MI; 25.7% had ST-segment elevation MI, 74.3% had non-ST-segment elevation MI, and 8.9% had ventricular tachycardia/ventricular fibrillation. Precipitating emotional stressors were reported in 48.3% and physical stressors in 28.1%. Fibromuscular dysplasia was present in 62.7%, connective tissue disorder in 4.9%, and systemic inflammatory disease in 11.9%. The majority (83.1%) were initially treated medically, with only 16.5% or 2.2% undergoing in-hospital percutaneous coronary intervention or coronary artery bypass graft surgery, respectively. The majority of SCAD patients were taking aspirin and beta-blocker therapy at discharge and at follow-up. Median hospital stay was 3.0 days, and the overall major adverse event rate was 7.3%. Median long-term follow-up was 3.1 years, and overall adverse cardiac event rate was 19.9% (death rate: 1.2%; recurrent MI: 16.8%; stroke/transient ischemic attack: 1.2%; revascularization: 5.8%). Recurrent SCAD occurred in 10.4% of patients. In multivariate modeling, only hypertension increased (hazard ratio: 2.46;  $p = 0.011$ ) and beta-blocker use diminished (hazard ratio: 0.36;  $p = 0.004$ ) recurrent SCAD.

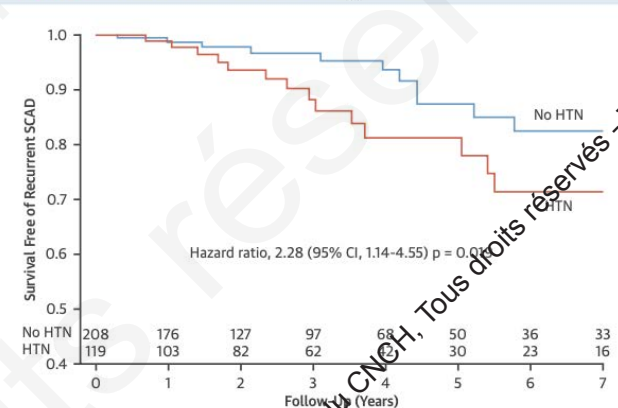
**CONCLUSIONS** In our large prospectively followed SCAD cohort, long-term cardiovascular events were common. Hypertension increased the risk of recurrent SCAD, whereas beta-blocker therapy appeared to be protective. (J Am Coll Cardiol 2017;70:1148-58) © 2017 by the American College of Cardiology Foundation.

**TABLE 8 Univariate and Multivariate Predictors of Recurrent SCAD**

Predictor	Univariate Model		Multivariate Model	
	Hazard Ratio (95% CI)	p Value	Hazard Ratio (95% CI)	p Value
Hypertension	2.28 (1.14-4.55)	0.019	2.46 (1.23-4.93)	0.011
Beta-blocker	0.39 (0.19-0.78)	0.008	0.36 (0.18-0.73)	0.004
Calcium-channel blocker	2.57 (1.25-5.31)	0.011		
Aspirin	0.36 (0.18-0.73)	0.004		

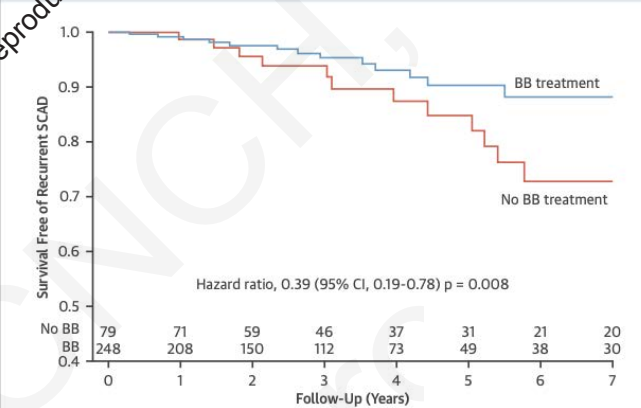
CI = confidence interval; SCAD = spontaneous coronary artery dissection.

**FIGURE 3 Survival Free of Recurrent SCAD: Hypertension**



Presence of HTN increased the risk of recurrent SCAD. CI = confidence interval; HTN = hypertension; SCAD = spontaneous coronary artery dissection.

**FIGURE 4 Survival Free of Recurrent SCAD: Beta-Blocker Treatment**



BB treatment reduced the risk of recurrent SCAD. BB = beta-blocker; other abbreviations as in Figure 3.





- **Anticoagulants**
- **Antiagrégants plaquettaires : mono ou DAPT**
- **Bêtabloquants**
- **Statines**



## Clinical Features, Management, and Prognosis of Spontaneous Coronary Artery Dissection

Marysia S. Tweet, MD; Sharonne N. Hayes, MD; Sridevi R. Raju, MBBS; Robert D. Simari, MD; Amir Lerman, MD; Ryan J. Lennon, MS; Bernard J. Gersh, MD, ChB, DPhil; Shereezade Khambatta, DO; Patricia J.M. Best, MD; Charanjit S. Rihal, MD, MBA; Rajiv Gulati, MD, PhD

### Long-Term Outcomes

#### SCAD Recurrence

During a median follow-up of 47 months (interquartile range, 18–106), 15 patients (7%) experienced a recurrent SCAD episode. Figure 4A illustrates the Kaplan-Meier–estimated rate of SCAD recurrence. After a primary SCAD event, the 10-year SCAD recurrence rate was 29.4%. Of those with

**Pas de statines systématiques**

cardiac medications begun during the index admission on subsequent risk of SCAD recurrence (Table II in the online-only Data Supplement), although sample size remains a limitation for analysis. An exception appeared to be statin use, which was higher in the SCAD recurrence group. However, because the median index event year was 2007 for those prescribed statins versus 2002 for those not prescribed statins, the date of event is a potential confounding factor. More so, it is certainly possible that those not prescribed statins initially were prescribed them at a later date. Lack of information on statin use is a limitation of the analysis.

## Spontaneous Coronary Artery Dissection

### Clinical Outcomes and Risk of Recurrence

Jacqueline Saw, MD,<sup>a</sup> Karin Humphries, DSc,<sup>b</sup> Eve Aymong, MD,<sup>c</sup> Tara Sedlak, MD,<sup>a</sup> Roshan Prakash, MBBS,<sup>a</sup> Andrew Starovoytov, MD,<sup>a</sup> G.B. John Mancini, MD<sup>a</sup>

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**statines**

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**CONCLUSIONS** In our large prospectively followed SCAD cohort, long-term cardiovascular events were common. Hypertension increased the risk of recurrent SCAD, whereas beta-blocker therapy appeared to be protective. (J Am Coll Cardiol 2017;70:1148–58) © 2017 by the American College of Cardiology Foundation.



# Pronostic

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**TABLE 3 Demographics, Presentation, and Cardiovascular Outcomes in Contemporary SCAD Series**

First Author (Ref. #)	Year	N	Age (yrs)	Women	ACS	STEMI	NSTEMI	Revasc, PCI*	PCI Success	In-hosp Death	In-hosp MI	In-hosp Urgent Revasc	Median F/U Time	F/U Death	F/U MI	F/U SCAD	F/U Revasc	F/U HF
Alfonso (8)	2012	27	53.0 ± 11.0	85.0	85.0	52.0	33.0	55.6, 100.0	80.0	0.0	0.0	7.4	730 days	0.0	0.0	NR	3.7	3.7
Saw (9)	2014	168	52 ± 9.2	92.3	100.0	26.1	73.9	20.2, 82.3	63.6	0.0	4.8	4.8	6.9 yrs	4.4	15.5	13.1	6.5	0.0
Tweet† (10)	2014	189	44.0 ± 9.0	92.0	100.0	37.0	63.0	50.3, 93.7	47.0	0.5	0.0	7.0	2.3 yrs	2.0	19.6	27.0	25.0	13.0
Lettieri (11)	2015	136	52.0 ± 11.0	81.0	93.0	49.2	40.3	42.0, 91.1	72.5	2.2	5.2	5.8	22 days	3.1	1.6	4.7	4.6	3.9
Rogowski (12)	2015	64	53.0 ± 11.2	94.0	100.0	69.0	30.0	12.5, 87.5	66.7	1.5	0.0	0.0	4.5 yrs	0.0	6.3	6.3	0.0	0.0
Roura (14)	2015	34	47.0 ± 12.0	94.1	100.0	55.0	45.0	23.5, 100.0	75.0	0.0	0.0	0.0	21 days	0.0	5.9	2.9	0.0	0.0
Rashid (13)	2016	21	53.3 ± 8.8	95.2	100.0	34.8	56.5	28.6, 100.0	66.7	0.0	0.0	NR	NR	NR	NR	NR	NR	NR
Nakashimi (15)	2016	63	46.0 ± 10.0	94.0	100.0	87.0	13.0	55.6, 97.1	91.0	NR	NR	NR	2.8 yrs	1.6	28.6	22.0	NR	NR

Values are % or mean ± SD. \*The first percentage is those who had revascularization, and the second percentage is the proportion of those who underwent revascularization that was PCI. †Follow-up events for this study are Kaplan-Meier estimates.

ACS = acute coronary syndrome; F/U = follow-up; HF = heart failure; In-hosp = in-hospital; MI = myocardial infarction; NR = not reported; NSTEMI = non-ST-segment elevation myocardial infarction; Revasc = revascularization; STEMI = ST-segment elevation myocardial infarction; other abbreviations as in Tables 1 to 3.

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# Take Home Messages

- Dissection coronaire spontanée ➡ pathologie sous diagnostiquée
- Le diagnostic purement angiographique est possible, parfois trompeur, grand apport de l'**imagerie endocoronaire**.
- Pas de guidelines.
- **Une stratégie conservatrice** est souvent préconisée, sauf ischémie persistante, instabilité hémodynamique
- la récurrence n'est pas rare ➡ Follow up
- Les données des registres ➡ une meilleure compréhension et prise en charge des dissections coronaires spontanées .

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National des  
Cardiologues des  
Hôpitaux

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