

Faut-il prescrire des Ddimères dans la suspicion de dissection aortique ?

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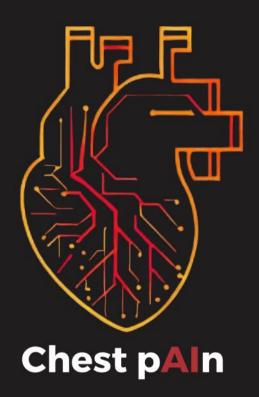




Conflits d'intérêt



	MICU patients (n = 187)
Unknown	56 (30)
STEMI	19 (10)
NSTEMI	29 (15.5)
Aortic dissection	5 (3)
Myocarditis or/and	4 (2)
pericarditis	
Pulmonary embolism	6 (3)
Pneumonia	-
Pneumothorax	-
Pleurisy	22 (12)
Anxiety	22 (12)
Musculoskeletal	3 (2)
Neuropathic	5 (3)
Gastritis	1 (0.5)
Pancreatitis	5 (3)
Stable angina	4 (2)
Heart failure	6 (3)
Gastrointestinal	-
Other infectious	-
disease	
Other	-
Missing data	-
In-hospital mortality	3 (2)



13 155 patients sur un an

8 centres

50 SAA (0,38 %)



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9 (18%) externes

dont 4 (44%) décédé à J1

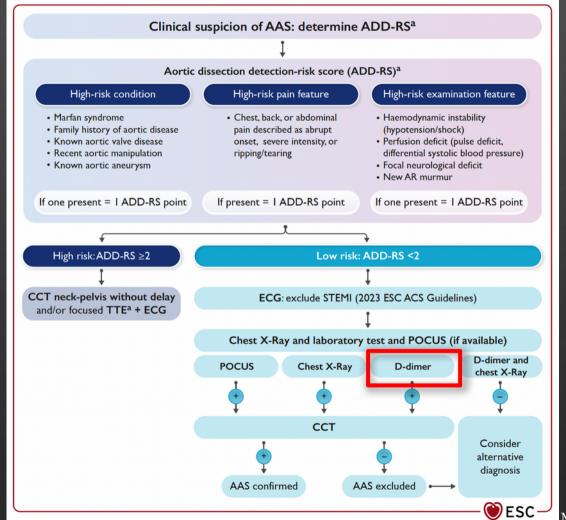


2024 ESC Guidelines for the management of peripheral arterial and aortic diseases

Developed by the task force on the management of peripheral arterial and aortic diseases of the European Society of Cardiology (ESC)

Endorsed by the European Association for Cardio-Thoracic Surgery (EACTS), the European Reference Network on Rare Multisystemic Vascular Diseases (VASCERN), and the European Society of Vascular Medicine (ESVM)

In patients presenting with clinical features compatible with possible AAS, a multiparametric algorithm for ruling in or out AAS using the ADD-RS is recommended. 1196–1200

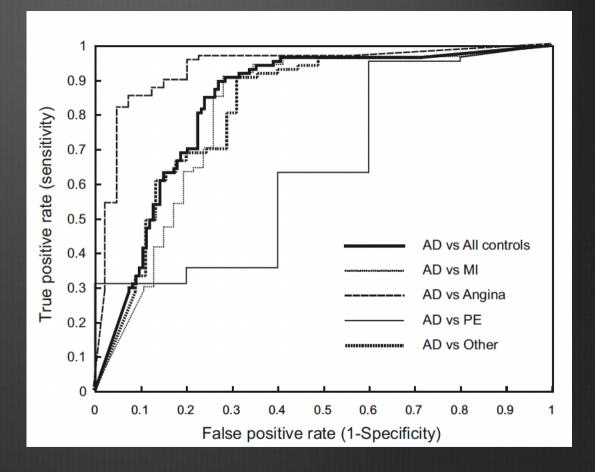


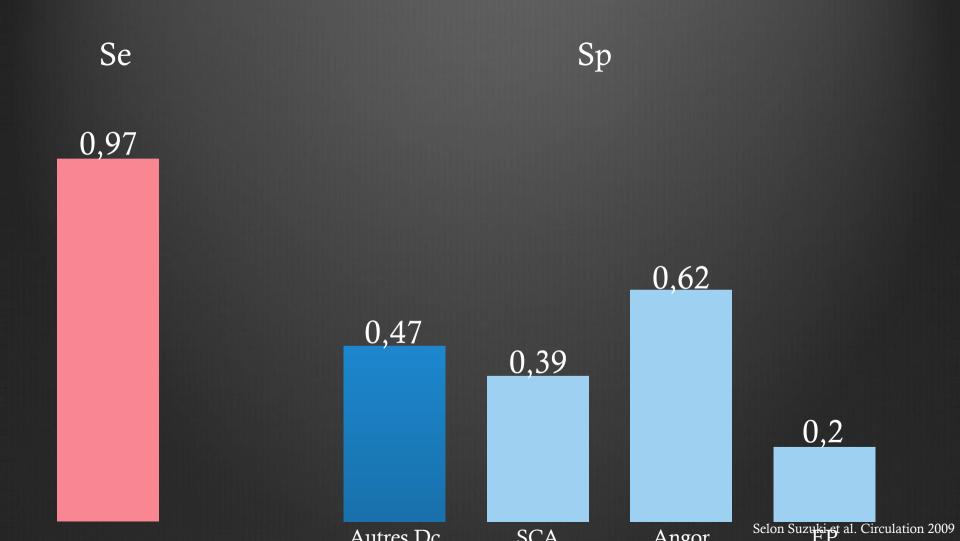
Diagnosis of Acute Aortic Dissection by D-Dimer The International Registry of Acute Aortic Dissection Substudy on Biomarkers (IRAD-Bio) Experience

Toru Suzuki, MD; Alessandro Distante, MD; Antonella Zizza, MS; Santi Trimarchi, MD; Massimo Villani, MD; Jorge Antonio Salerno Uriarte, MD; Luigi De Luca Tupputi Schinosa, MD; Attilio Renzulli, MD; Federico Sabino, MD; Richard Nowak, MD; Robert Birkhahn, MD; Judd E. Hollander, MD; Francis Counselman, MD; Ravi Vijayendran, PhD; Eduardo Bossone, MD; Kim Eagle, MD; for the IRAD-Bio Investigators

220 suspicions de SAA (indication d'imagerie)

87 (40%) SAA





Méta analyse 22 études 5000 patients

Study	TP	FP	FN	TN	Sensitivity (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)
Akutsu 2005	30	22	0	26	1.00 [0.88, 1.00]	0.54 [0.39, 0.69]		-
Eggebrecht 2004	16	16	0	32	1.00 [0.79, 1.00]	0.67 [0.52, 0.80]	_	-
Ersel 2010	29	33	1	36	0.97 [0.83, 1.00]	0.52 [0.40, 0.64]	-	
Fan 2010	104	52	3	101	0.97 [0.92, 0.99]	0.66 [0.58, 0.73]	-	-
Giachino 2013	41	41	1	20	0.98 [0.87, 1.00]	0.33 [0.21, 0.46]		-
Gorla 2015	61	130	0	185	1.00 [0.94, 1.00]	0.59 [0.53, 0.64]	-	-
Hazui 2005	27	4	2	45	0.93 [0.77, 0.99]	0.92 [0.80, 0.98]	-	
Levcik 2013	41	22	0	13	1.00 [0.91, 1.00]	0.37 [0.21, 0.55]		
Li 2010	118	64	9	152	0.93 [0.87, 0.97]	0.70 [0.64, 0.76]	-	-
Nazerian 2014	229	514	4	288	0.98 [0.96, 1.00]	0.36 [0.33, 0.39]		•
Ohlmann 2006	93	62	1	32	0.99 [0.94, 1.00]	0.34 [0.25, 0.45]	•	-
Okazaki 2014	12	1	3	45	0.80 [0.52, 0.96]	0.98 [0.88, 1.00]		
Peng 2015	28	4	7	37	0.80 [0.63, 0.92]	0.90 [0.77, 0.97]		-
Reeps 2010	7	3	0	1	1.00 [0.59, 1.00]	0.25 [0.01, 0.81]		_
Sakamoto 2011	19	40	16	188	0.54 [0.37, 0.71]	0.82 [0.77, 0.87]	_	-
Sbarouni 2007	17	12	1	17	0.94 [0.73, 1.00]	0.59 [0.39, 0.76]	-	
Shao 2014	46	30	43	249	0.52 [0.41, 0.62]	0.89 [0.85, 0.93]	-	•
Spinner 2006	24	35	2	21	0.92 [0.75, 0.99]	0.38 [0.25, 0.51]	-	
Stanojlovic 2013	29	5	0	20	1.00 [0.88, 1.00]	0.80 [0.59, 0.93]		
Weber 2003	24	11	0	24	1.00 [0.86, 1.00]	0.69 [0.51, 0.83]		
Xue 2007	16	10	0	17	1.00 [0.79, 1.00]	0.63 [0.42, 0.81]	_	_
Yoshimuta 2015	9	64	0	1163	1.00 [0.66, 1.00]	0.95 [0.93, 0.96]	0 0.2 0.4 0.6 0.8 1	0 0.2 0.4 0.6 0.8 1

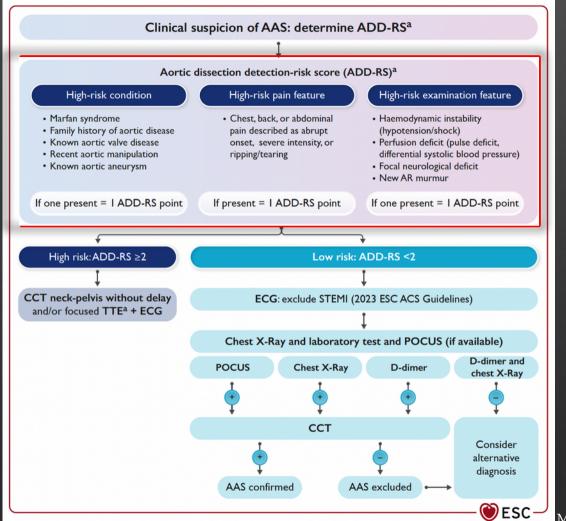
Figure 2. A paired forest plot by **D-dimer for acute aortic dissection.** TP: true positive. FP: false positive. FN: false negative. TN: true negative.

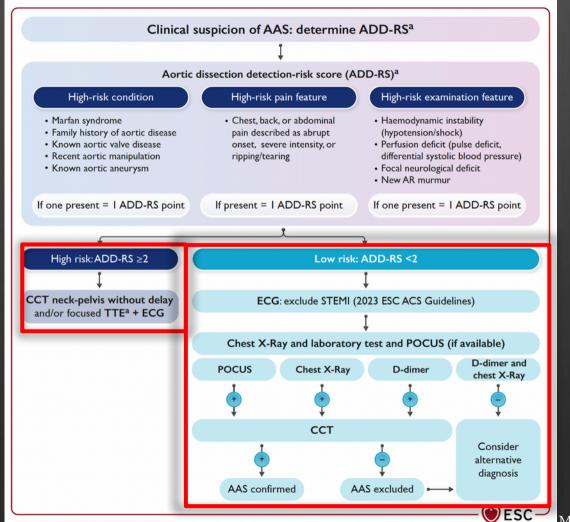
AUC 0,95 (95%CI 0,90–099)



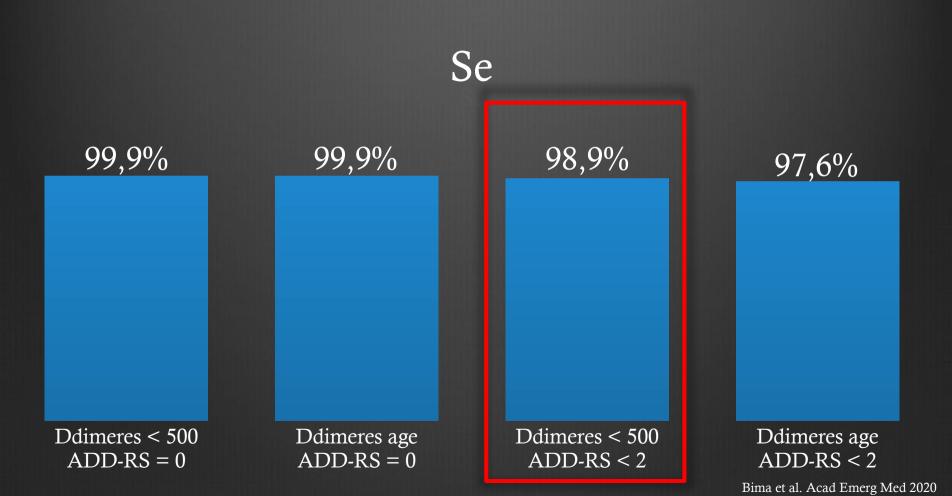
Méta analyse 12 études 2827 patients Seuil 500 ng mL⁻¹

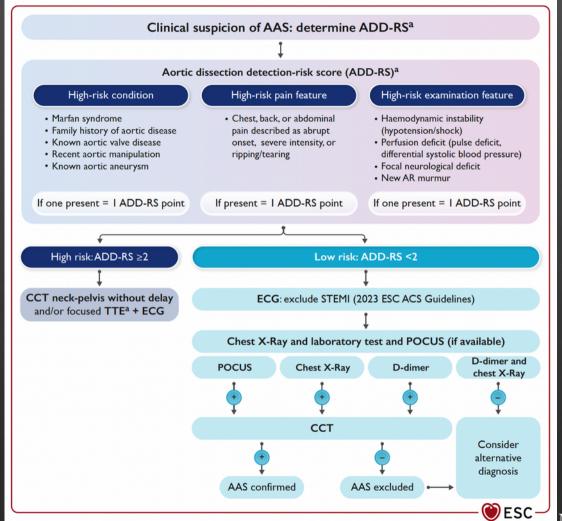
$$RV + = 2.4 (95\% CI 1.8-3.3)$$





Revue systématique 4 études 3804 patients

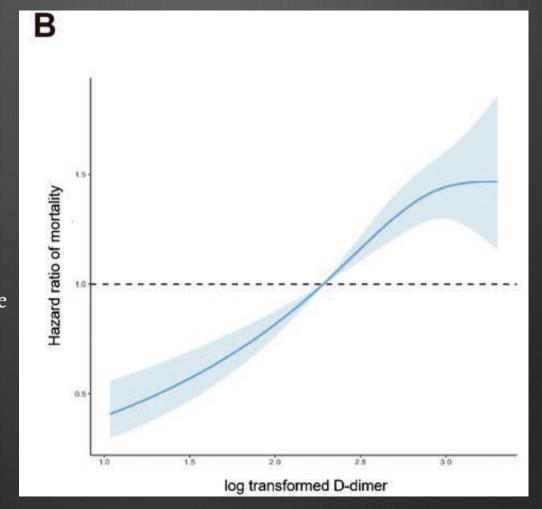




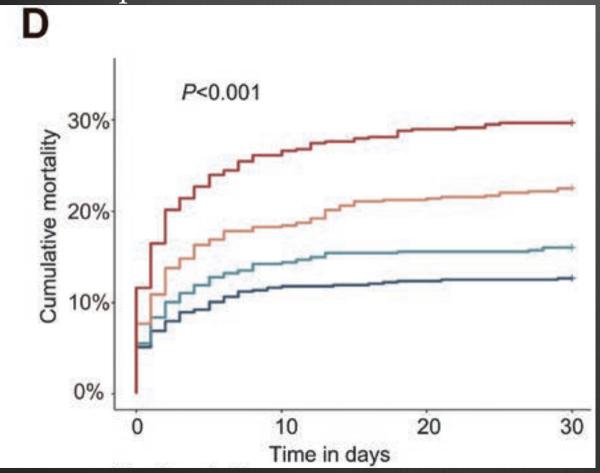
Intérêt pronostic?

3132 SAA type A

Dimères et mortalité hospitalière



Intérêt pronostic?



 $Q4 - 20000 \text{ ng mL}^{-1}$

 $Q4 - 4210 \text{ ng mL}^{-1}$

Q4 – 1910 ng mL⁻¹

 $Q4 - 720 \text{ ng mL}^{-1}$



Faut-il prescrire des Ddimères dans la suspicion de dissection aortique ?

Non

Chez les patients

avec forte suspicion

Oui

Chez les patients

avec faible suspicion

Seuil 500 avec Rx et ECMU