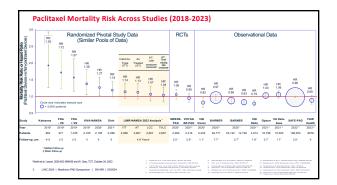


Disclosures

Y. Gouëffic reports:

-Research funding from General Electric, WL Gore, Sensom

-Personal fees and grants from Abbott, BD, Biotronik, Boston Scientific, Cook, General Electric, Medtronic, Penumbra, WL Gore (medical advisory board, educational course, speaking)



Current limitation of patient-level analysis and real word observational studies

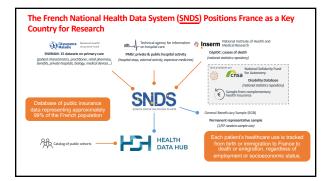
Patient-level, pooled analysis of long-term mortality

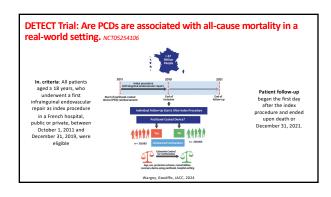
- The number of patients remained limited
- Vital status is missing in numerous participants. This partly limits the interpretation, with the risk that missing data may not be due to chance

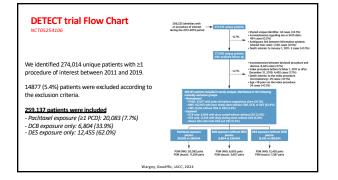
Current real-world observational studies

Lack of exhaustiveness due to the choice of a specific group of patients
Absence of certain devices not available at the time of analysis.

Parikh SA, Lancet, 2023; Rocha-Singh KJ, Circulation. 2020; Behmendt CA, Eur J Vasc. Endovasc. Surg. 2020; Freelinger E, Eur Heart J, 2019; Secensky EA, J Am Call Cardiol. 2019; Guiterrez JA. J Am Heart Assoc. 2021







Study Population Characterictics According to Baseline Treatment

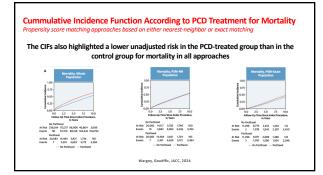
The medical history was unbalanced but not systematically in favor of one group.

	Control group (no PCD), n = 239,054	PCD treatment group, n = 20,083	P value
Sociodemographic			
Sex (women)	78756 (32.9%)	6609 (32.9%)	0.92
Age on admission (years)	74 [64-83]	71 [63-80]	100.02
Coronary artery disease	89723 (37.5%)	8036 (40.0%)	<0.001
Stroke	20543 (8.6%)	1570 (7.8%)	<0.001
Heart failure	45651 (19.1%)	3002 (14.9%)	<0.001
Peripheral arterial disease	154379 (64.6%)	13659 (68.0%)	<0.001
Lower lanb artery procedure (any)	23553 (9.9%)	2520 (12.5%)	<0.001
Major lower limb amputation	6245 (2.6%)	262 (1.3%)	<0.001
Diabetes mellitus	99718 (41.7%)	7972 (39.7%)	<0.001
Chronic kidney disease	46351 (19.4%)	3076 (15.3%)	<0.001
End stage kidney disease	11060 (4.6%)	566 (2.8%)	<0.001
Cancer	48698 (20.4%)	4097 (20.4%)	0.92
History of paclitaxel-eluting coronary stent	691 (0.3%)	83 (0.4%)	0.003
Last year treatment			
Antiplatelet agent	173416 (72.5%)	15642 (77.9%)	100.02
Anticoagulant	58952 (24.7%)	4034 (20.1%)	100.02
ACE	82268 (34.4%)	7228 (36.0%)	<0.001
Statis	140864 (58.9%)	12609 (62,8%)	<0.001

The PCD group was more likely to present with a history of coronary artery disease (40.0% vs. 37.5%, respectively), peripheral artery disease (68.0% vs. 64.6%), and other lower limb artery procedure (12.5% vs. 9.9%) The control group was more likely to present with a history of stroke (7.8% vs. 8.6%), major

lower limb amputation (1.3% vs. 2.6%), and diabetes mellitus (39.7% vs. 41.7%).

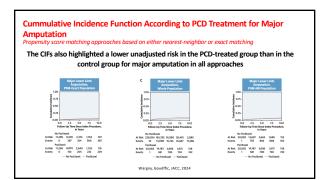
Wargny, Gouëffic, JACC, 2024

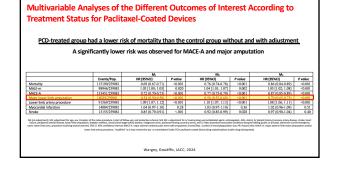


Multivariable Analyses of the Different Outcomes of Interest According to Treatment Status for Paclitaxel-Coated Devices

> PCD-treated group had a lower risk of mortality than the control group without and with adjustment

		Mi		M ₀		M3	
	Events/Pop.	HR (95%CI)	P value	HR (95%CI)	P value	HR (95%CI)	P volu
dortality	115190/259081		< 0.001	0.76 (0.74-0.78)	<0.001	0.86 (0.84-0.89)	
AALE-m	98946/259081	1.03 [1.00; 1.05]	0.020	1.04 [1.01; 1.07]	0.002	1.05 [1.02; 1.08]	<0.0
AACE-A	133451/259081	0.72 (0.70-0.73)	< 0.001	0.77 (0.75-0.79)	< 0.001	0.87 (0.85-0.89)	<0.0
Aajor lower limb amputation	18029/259081	0.54 (0.50-0.58)	< 0.001	0.56 (0.52-0.60)	< 0.001	0.70 (0.65-0.75)	<0.0
ower limb artery procedure	91569/259081	1.09 [1.07; 1.12]	< 0.001	1.10 [1.07; 1.13]	<0.001	1.08 [1.06; 1.11]	<0.0
Ayocardial infarction	14884/259081	1.04 (0.97-1.10)	0.28	1.03 (0.97-1.10)	0.36	1.02 (0.96-1.09)	0.
troke	13155/259081	0.85 (0.79-0.91)	<.001	0.92 (0.85-0.99)	0.028	0.97 (0.90-1.04)	0.
5 (no adjustment); M2, adjustment for age, sex, trimester o alium, periphenal attential disease, lower find amputation, on, lower limb alicer, procedure involving several attentes).	diabetes mellitus, chronic/end-s 99% CI: 99% confidence internal	tage kidney disease, malignant turnor, paci I MACS-A: major adverse candiovascular ex	txel-eluting coron ert with amputatio	a/ routine drug use antiplatelet agent, antic ary stent], and c/ index procedum-associate n; ilwent; Hop - number of events/populatio tawei-coated device/drug-coated balicon an	d conditions (hosp size; HR Hazard	ital setting (public or private), admission via ratio; MALE-n: major adverse limb event (ar	se, stroke, h the emerger sputation ar





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 Multivariable analysis of the different outcomes of interest according to treatment status for DCB or DCB

 Multivariable model, compared to control group, treatments with DCB without DCS and DCB without DCB were associated with a lower risk for major amputation

 Multivariable model, compared to control group, treatments with DCB without DCB were associated with a lower risk for major apputation

 Multivariable model, compared to control group, treatments with DCB without DCB were associated with a lower risk for major apputation

 Multivariable model, compared to control group, treatments with a lower risk for major apputation

 Multivariable model, compared to control group, treatments with a lower risk for major apputation

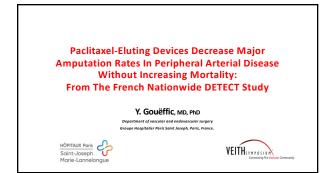
 Multivariable model, compared to control group, treatments to the status to the s

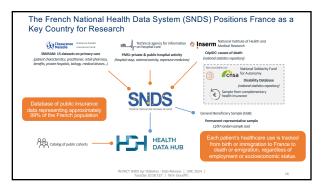
Take Home message

 The DETECT study is a real-world data from a 10-year, nationwide, nearly exhaustive, of about 260,000 patients followed after endovascular revascularization for lower limb peripheral artery disease using or not using a PCD, with a minimum of 2 years of follow-up.

- In this population accounting for the main confounding factors, PCD treatment was not associated with a higher risk of late mortality.

- The other sub-analyses in patients with PCD, DCB only or DES only, highlight an <u>lower risk</u> associated in term of <u>maior amputation</u>.





Study Limitations

- No causal inference can be made. Indeed, the indication bias beween patients treated and not treated with PCD could not be fully controlled

- Data set limitations: from 2011 to 2021, the time used to retrieve medical history was shorter for patients included near October 2011.

 The lack of data regarding the laterality of the procedure strongly limits the interest of the "new lower limb artery procedure" outcome. Indeed, although it may be a reintervention caused by the restenosis of the initial lesion, this procedure may also be contralateral.