

Supplementary Information

Hospitalization and death in the first 30 days after outpatient lower extremity arterial stenting

Supplementary Table 1: Medical procedure (CCAM) for inclusion of LEAD patients

CCAM	LABEL
DGLF001	Aortobisiliac bifurcated stent-graft stent placement by transcutaneous arterial approach
DGLF002	Aorto-uniiliac covered stent, transcutaneous arterial
EDAF003	Intraluminal dilatation of the common iliac artery and / or external iliac artery with stenting, by transcutaneous arterial approach
EDAF006	Intraluminal dilatation of the internal iliac artery with stenting, transcutaneous artery
EDLF004	Stent-graft placement in the common iliac artery and / or the external iliac artery with embolization of the internal iliac artery by transcutaneous arterial delivery
EDLF007	Stent-graft placement in the internal iliac artery or extradigestive branch of the abdominal aorta via the transcutaneous arterial approach
EDPF006	Recanalization of the common iliac artery and / or the external iliac artery with stent graft placement, transcutaneous arterial
EEAF002	Intraluminal dilatation of a lower extremity artery with intraluminal dilatation of the common iliac artery and / or the ipsilateral external iliac artery with stenting, by the transcutaneous arterial approach
EEAF004	Intraluminal dilatation of a lower extremity artery with stent grafting by transcutaneous arterial artery
EEAF006	Intraluminal dilatation of several lower extremity artery with stent graftings by transcutaneous arterial artery
EELF002	Stent-graft placement in lower extremity artery via transcutaneous arterial approach
EEPF001	Recanalization of a lower extremity artery with stenting, by transcutaneous arterial approach

Supplementary Table 2: Medical procedures (CCAM) and associated diagnosis precluding outpatient surgery for exclusion of LEAD patients.

CCAM – procedure code	GROUP LABEL
DDAF003, DDAF004, DDAF006, DDAF007, DDAF008, DDAF009, DDPF002	Dilatation of coronary artery with stenting
DDAF001, DDAF010, DDF001, DDF002	Dilatation of coronary artery without stenting
DDQH009, DDQH010, DDQH011, DDQH012, DDQH013, DDQH014, DDQH015, DDQJ001, DDRH001	Coronary artery imaging and treatments
DGAF005, DGAF007, DGAF008, DGLF001, DGLF002, DGLF005, DGPF001, DGPF002, DHAF004	Dilatation of coronary artery, abdominal or arterial bypass toward lower limb
EBAF001, EBAF010, EBAF011, ECAF001, ECAF002, ECAF003, ECAF004, ECJF001, ECLF003, ECLF004	Dilation of the carotid artery
ECNF001, ECNF002, ECPF002, ECPF003, ECPF005, ECSF002, ECSF004	Fibrinolysis or thrombectomy of upper limb artery
EDAF001, EDAF005, EDAF007, EDAF008, EDAF009, EDAF010, EDJF002, EDLF004, EDLF006, EDLF007, EDPF002, EDPF003, EDPF005, EDPF006	Fibrinolysis or thrombectomy of abdominal or aorto-ilio-fémoral path
EDAF001, EDAF005, EDAF007, EDAF008, EDAF009, EDAF010, EDJF002, EDLF004, EDLF006, EDLF007, EDPF002, EDPF003, EDPF005, EDPF006	Dilatation of renal or digestive artery
EDSF004, EDSF005, EDSF009, EDSF010, EDSF012, EDSF013, EDSF014, EDSF016	Embolization
EEJF001, EELF002, EENF001, EENF002, EESF001, EESF006, EESF007	Selective or hyper-selective in situ fibrinolysis or embolization of an artery or arterial bypass
EFPF001, EGAF002, EGPF001, ENAF001, ENAF002, ENFF001, ENNF001, EZAF002	Recanalization of the external iliac vein or Intraluminal dilation of a non-anatomic limb arterial bypass
EQLF003, GLLD003, GLLD012, EQLF002, FELF004, GLLD008, FELF003, JVJF002, DCJB001, JVJF005, YYYYY015, YYYYY020, YYYYY001, YYYYY002	Intensive care unit
ICD10 – associated diagnosis	Diagnosis
E66*	Obesity
L97, L984	Chronic ulcer of lower limb
I21, I22, I23, I24	Myocardial infarction
I60, I61, I62, I63, I64	Stroke
G45	Transient ischemic attack
I7001, I7021, I7081 and R02	Arteriopathy with gangrene
M86, A46, L02, L03, L04, L08, L303, L304	Osteomyelitis and skin infection

Supplementary Table 3: Categorization of rehospitalizations as complications using groupage of diagnosis, procedures, grouping of patients by a medical expert

Categories of complications	Diagnostic (ICD10 codes) / Medical procedures CCAM / GHM (patient grouping algorithm based on ICD10 and CCAM codes)
Endovascular procedure-related complication	
hemorrhage	DP: D62, K66.1, T81.0, R57.1, N50.1, Z51.3 or GHM root: 21C05 or 05C18
aneurysm	DP: I72.*, I77.2 or CCAM: EESF***, EDPA001, EDPA005
gangrene, ulcer (without amputation)	DP: I70.21, I70.81, L97, R02, S81.8, S91.3 GHM root not in 05C12 or 05C13
amputation	GHM root: 05C12 or 05C13
embolism and thrombosis	DP: I74.3, I74.4, I74.5
lower limb contusion	DP: S70.0, S70.1, S80.0, S80.1
lower limb pain	DP: M79.6, M79.65, M79.66 CCAM: AJFA001-2-3, AJFC001-2
sepsis	DP: A41.0, A41.5
acquired arteriovenous fistula	DP: I70.0
Heart diseases	
heart failure and circulatory shock	DP: I50, R57.0 or GHM root: 05M09
other coronary artery diseases	DP: I24, I25 or GHM root: 05M16
angor	DP: I20 or GHM root: 05M06
arrhythmia	DP: I44, I45, I47, I48 or GHM root: 05M08
myocardial infarction	DP: I21 or GHM root: 05K05, 05M04
chest pain	DP: R07 or GHM root: 05M13
cardiac arrest with death	GHM: 05M22E
Stroke	
Strokes constituted	DP: I60, I61, I63 GHM root: 01M30, 01M31, 01M36
transient ischemic attack	GHM root: 01M15, 01M16
Other cardiovascular diseases	
peripheral vascular disorder without revascularization	GHM root: 05M12
syncopes and lipothymias	GHM root: 05M05
phlebitis	DP: I80 or GHM root: 05M07
high blood pressure	GHM root: 05M15
pulmonary embolism	GHM root: 04M10
Other reasons	
other complications related to the procedure	DP: I97.8, T81.7, T82.3, T82.7, Z09.0, Z48.0, Z48.8 or CCAM: EDCA004, EEGA001-2

DP: principal diagnosis ; CCAM French nomenclature of medical procedures ; GHM: homogeneous group of patients

Supplementary Table 4: Characteristics of patients and hospitals at the index endovascular revascularization after propensity score weighting

	Outpatients (n = 2.819)	Inpatients (n = 23.896)	Standardized differences ^a
Age in years (mean ± SD)	67.37 (10.73)	67.74 (11.52)	0.033
Women – n (%)	738.3 (26.1)	6324.3 (26.5)	0.009
Comorbidities – n (%)			
Myocardial infarction	142.2 (5.0)	1140.2 (4.8)	0.012
Congestive heart failure	288.3 (10.2)	1843.9 (7.7)	0.086
Stroke (hemiplegia excluded)	159.3 (5.6)	1228.3 (5.1)	0.021
Dementia	26.3 (0.9)	167.2 (0.7)	0.026
Chronic obstructive pulmonary disease	299.3 (10.6)	2083.1 (8.7)	0.063
Connective tissue disease	11.3 (0.4)	126.2 (0.5)	0.019
Peptic ulcer	6.3 (0.2)	90.2 (0.4)	0.028
Mild liver failure	1992.3 (70.4)	16600.9 (69.5)	0.019
Diabetes without complications	32.0 (1.1)	235.1 (1.0)	0.014
Diabetes with organ damage	330.2 (11.7)	2489.9 (10.4)	0.040
Hemiplegia	29.2 (1.0)	183.7 (0.8)	0.028
Moderate or severe kidney failure	150.1 (5.3)	1044.3 (4.4)	0.043
Cancer	78.7 (2.8)	646.8 (2.7)	0.004
Moderate or severe liver failure	10.1 (0.4)	67.2 (0.3)	0.013
Metastatic solid tumor	13.0 (0.5)	94.2 (0.4)	0.010
HIV with or without AIDS	8.5 (0.3)	55.7 (0.2)	0.013
Year of intervention - n (%)			0.040
2013 ^b	658.2 (23.2)	5600.1 (23.4)	
2014	806.2 (28.5)	7187.9 (30.1)	
2015	895.0 (31.6)	7241.3 (30.3)	
2016 ^c	472.2 (16.7)	3865.9 (16.2)	
Number of interventions by hospital activity level ^d			0.082
≤ 100	189.7 (6.7)	1716.6 (7.2)	
100-200	692.6 (24.5)	5241.4 (21.9)	
200-300	359.0 (12.7)	3422.1 (14.3)	
300-400	446.6 (15.8)	3982.5 (16.7)	
400-500	219.5 (7.8)	1643.5 (6.9)	
> 500	924.3 (32.6)	7889.0 (33.0)	

Supplementary Figure 1: Number of deaths and postsurgical acute care hospitalizations for complications after LEAD endovascular stenting, whatever the clinical setting (n=1, 267)

