

# Long-term safety of drug-coated devices for peripheral revascularisation

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## KEYWORDS

- claudication
- clinical research
- critical limb ischaemia
- drug-eluting balloon
- drug-eluting stent

## Abstract

**Background:** Meta-analyses of randomised trials of paclitaxel-coated peripheral devices found an association with worse long-term survival.

**Aims:** We aimed to assess long-term mortality in patients treated with drug-coated versus non-drug-coated devices who are insured by Medicare Advantage (MA), an alternative to traditional Medicare that represents >30% of the Medicare eligible population. We analysed data from an MA administrative claims data source that includes both inpatient and outpatient femoropopliteal artery revascularisation procedures.

**Methods:** Patients treated with or without drug-coated devices for femoropopliteal artery revascularisation from 4/2015-12/2017 were studied using Optum's De-identified Clininformatics Datamart Database. Mortality was assessed up to December 2019 using Kaplan-Meier cumulative mortality curves and Cox proportional hazard models. Inverse probability of treatment weighting was used to adjust for differences between groups.

**Results:** Of 16,796 patients revascularised, 4,427 (26.4%) were treated with drug-coated devices: 3,600 (81.3%) balloons and 827 (18.7%) stents. The median follow-up was 2.66 years (IQR 2.02-3.52). Treatment with drug-coated devices was associated with similar long-term mortality to non-drug-coated devices (adjusted HR 1.03, 95% CI: 0.96-1.10; p=0.39). Results were comparable for patients treated with balloons alone (adjusted HR 1.00, 95% CI: 0.92-1.08; p=0.96) or stents (adjusted HR 1.02, 95% CI: 0.88-1.18; p=0.78). These findings did not differ based on treatment setting, disease severity, age, sex or comorbidity burden (interaction p>0.05 for all).

**Conclusions:** In this large cohort, there was no evidence of increased long-term mortality following treatment with drug-coated devices.

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## Abbreviations

<b>BMS</b>	bare metal stent
<b>DCB</b>	drug-coated balloon
<b>DES</b>	drug-eluting stent
<b>MA</b>	Medicare Advantage
<b>PTA</b>	percutaneous transluminal angioplasty

## Introduction

Drug-coated devices used for femoropopliteal artery revascularisation have been an integral component of contemporary clinical vascular practice, based on their durable improvement in long-term patency and reductions in clinically driven target lesion revascularisation as compared with uncoated devices<sup>1,2</sup>. Since approval, drug-coated devices have become the primary device used for peripheral endovascular intervention (PVI)<sup>3</sup> and are recommended in society practice guidelines for most lesion types<sup>4</sup>.

Despite their established periprocedural and short-term safety, a meta-analysis published in December 2018 raised questions regarding risk of decreased long-term survival after exposure to paclitaxel-coated devices<sup>5</sup>. The impact of this meta-analysis has been widespread, including halting of randomised trials, restriction in use by the Food and Drug Administration to those deemed at highest risk, and a dramatic decline in daily utilisation<sup>6-8</sup>. Many have cautioned that the evidence is not definitive, due to the heterogeneity among the included devices and trials, substantial loss to follow-up, and lack of a putative mechanism of harm<sup>9,10</sup>. Moreover, none of the studies included in the meta-analysis was powered to assess mortality.

While a randomised trial powered to assess long-term survival following treatment with drug-coated devices would be the most definitive way to exonerate harm caused by these devices, the very large number of patients and long length of follow-up required reduce the feasibility of such a study<sup>11</sup>. As a result, the scientific community has turned to real-world data (RWD) to evaluate the safety of these devices. Numerous real-world studies have been published to date, among U.S., European and Asian patient cohorts<sup>12-19</sup>; none has reproduced the harm signal seen in the initial meta-analysis.

As the prevalence of peripheral artery disease (PAD) increases with age, Medicare claims data capture a critical U.S. PAD population and are an important source of RWD to examine long-term survival after PVI. To date, the longest-term published Medicare safety data come from the traditional Medicare fee-for-service population treated in an inpatient setting<sup>12,13</sup>. However, not all Medicare enrollees' procedures are observed in traditional Medicare data. Medicare Advantage (MA) health plans are offered by private companies that contract with Medicare to provide hospital and medical benefits, and now enrol over one third of the Medicare eligible population<sup>20</sup>. Furthermore, patients insured by MA tend to be a healthier subset of Medicare-eligible patients<sup>21</sup> and thus may have fewer competing risks of death.

As such, to provide a more complete evaluation of the long-term safety of drug-coated devices used for PVI among Medicare beneficiaries, we analysed data from an MA administrative claims

data source that includes both inpatient and outpatient femoropopliteal artery revascularisation procedures.

## Methods

### DATA SOURCE AND STUDY SAMPLE

Using MA claims from Optum's De-identified Clininformatics® Datamart Database, we conducted an observational retrospective cohort study of patients who underwent femoropopliteal artery revascularisation procedures with a drug-eluting stent (DES), drug-coated balloon (DCB), bare metal stent (BMS), or uncoated balloon (PTA) between April 2015 and December 2017. Optum® is a nationwide sample of administrative health insurance data including medical and prescription claims and enrolment records. The data include demographics, diagnosis codes, procedure codes, place of service codes, prescription drug codes as well as dates of service and death. Procedures occurring in the inpatient hospital setting were identified using International Classification of Diseases, 10th Revision, Procedure Coding System (ICD-10-PCS) and procedures occurring in the outpatient hospital setting were identified using Current Procedural Terminology and Healthcare Common Procedure Coding System (HCPCS) C-codes (**Supplementary Table 1**). The study cohort was stratified by treatment with either a drug-coated device (DCB or DES) or a non-drug-coated device (BMS or PTA alone). For those who underwent multiple revascularisation procedures during the same index encounter, patients were included in the drug-coated group if they received any drug-coated device treatment, patients were included in the non-drug-coated group if they did not receive any drug-coated device treatment, and patients were included in the stent group if they received any stent. Patient index date was the date of the first revascularisation procedure observed in the data set. Patients were excluded if they were less than 18 years of age from the start of the lookback period or had an index procedure date occurring after death or disenrolment. They were also excluded if they had a PVI within 90 days of the start of the study period, as drug-coated device treatment could not be ascertained with fidelity prior to the establishment of the specific device codes (**Supplementary Figure 1**).

### PATIENT CHARACTERISTICS

Baseline patient comorbidities were identified using diagnosis, procedure, and national drug codes that were present on any encounter during a 90-day lookback period prior to each individual's index event. Comorbidities were determined using the Elixhauser comorbidity index definitions (**Supplementary Table 2**). Additional comorbidities identified using ICD-9-CM and ICD-10-CM/PCS codes included tobacco use, critical limb ischaemia (CLI), and adjunctive atherectomy procedures (**Supplementary Table 3**). Cardiovascular medication claims within the lookback period (exclusive of the index procedure date) were also reported and were categorised as statins, ACE inhibitors/ARBs, beta-blockers, P2Y<sub>12</sub> inhibitors, and anticoagulants (**Supplementary Table 4**). Patient age, sex, U.S. region, insurance plan type (e.g.,

Health Maintenance Organisation [HMO] or Preferred Provider Organisation [PPO]), and procedure clinical setting (e.g., inpatient vs outpatient) were recorded from the index procedure date.

## OUTCOMES

The primary outcome was all-cause mortality and was analysed up to 31 December 2019. Mortality data were ascertained using the CMS Master Beneficiary Summary File.

## STATISTICAL ANALYSIS

Categorical variables were reported as counts and percentages, and continuous variables as means with standard deviations. The primary analysis compared drug-coated versus non-drug-coated devices. Kaplan-Meier methods were used to estimate the cumulative incidences of long-term mortality, and unadjusted Cox proportional hazards regression models were used to compare groups. Pre-specified subgroup analyses included: stent implantation (DES vs BMS); balloon angioplasty alone (DCB vs PTA); procedure setting (inpatient vs outpatient); age (median); sex; presence of CLI; and tercile of Elixhauser comorbidity score. A landmark analysis was also performed starting at one year, which corresponds to the last time point in the Katsanos meta-analysis where no mortality difference was observed. For the device sub-analyses, if a patient received both a DCB and a BMS, they were included in the DCB group. If a patient received both a DCB and a DES, they were included in the DES group. To account for differences in patient populations, we used propensity score-based inverse probability of treatment weighting (IPTW)<sup>22</sup>. Propensity scores were calculated by generating a logistic regression model that included over 44 patient characteristics and comorbidities to predict the probability of each patient receiving a particular treatment. Standardised mean differences (SMD) were used to assess the covariate balance before and after the IPTW adjustment. Variables with an SMD of <0.1 were considered balanced. A Cox proportional hazards regression model was then used to calculate hazard ratios. Derivation of propensity scores, propensity score-based weights, and hazard ratio estimation were performed separately for each subgroup analysis. Interaction tests for differences between categories within each subgroup were estimated using seemingly unrelated regression. A p-value <0.05 was considered significant.

Computation of propensity scores was performed using R Core Team, 2017 (R Foundation for Statistical Computing, Vienna, Austria). Remaining statistical analyses were performed using Stata, version 15.1 (StataCorp, College Station, TX, USA).

## ETHICS APPROVAL

The study was approved by the Western Institutional Review Board with a waiver of informed consent for a retrospective data analysis.

## Results

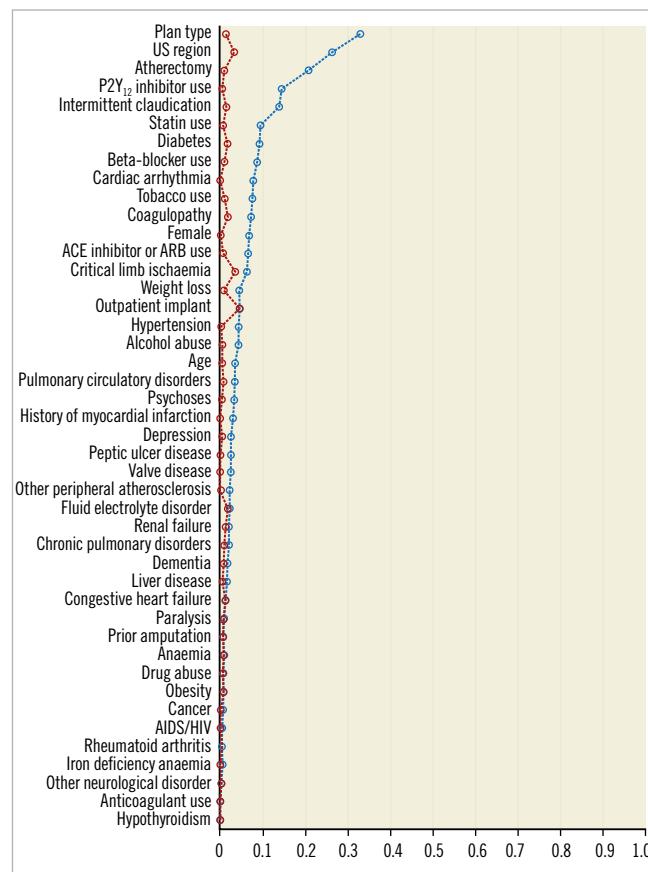
### BASELINE CHARACTERISTICS

The study included 16,796 patients who received femoropopliteal artery revascularisation procedures during the study period.

The average age of the patient population was  $73.3 \pm 8.8$  years, 44.4% were female, 50.8% had CLI, and 63.1% of procedures were performed in an outpatient location. DCB (either alone or with BMS) was used in 3,600 (21.4%), PTA (alone) in 5,840 (34.8%), DES (either alone or with DCB/PTA) in 827 (4.9%), and BMS (either alone or with PTA) in 6,529 (38.9%) (**Table 1**). Overall, sociodemographic characteristics and comorbidities between those treated with and without drug-coated devices were similar. However, patients treated with drug-coated devices received more atherectomy, more often carried diagnoses of claudication and diabetes, were less often insured by an HMO, and were more often treated in the East, North, Central and South Atlantic regions (**Table 1, Figure 1**). In addition, patients revascularised with a drug-coated device were more often being treated with a beta-blocker, P2Y<sub>12</sub> inhibitor and a statin.

## LONG-TERM SURVIVAL FOLLOWING PVI

Following femoropopliteal artery revascularisation, the median follow-up was 2.66 years (IQR 2.02–3.52). Prior to adjustment, treatment with drug-coated devices compared with non-drug-coated



**Figure 1.** The standardised mean differences (SMDs) in characteristics between patients treated with drug-coated and non-drug-coated devices. Prior to inverse probability of treatment weighting, there were several imbalances in characteristics, as represented by SMDs  $\geq 0.10$ . After weighting, no residual imbalances were noted, with all SMDs  $< 0.10$ .

**Table 1.** Baseline characteristics of femoropopliteal artery revascularisation patients, stratified by treatment with drug-coated devices versus non-drug-coated devices.

Characteristic	PTA/BMS n=12,369	DCB/DES n=4,427	SMD**	
Age, mean (SD)	73.35 (8.76)	73.03 (8.85)	0.036	
Female	5,379 (43.5)	2,074 (46.8)	0.068	
Peripheral artery disease*	Critical limb ischaemia	6,175 (49.9)	2,350 (53.1)	0.063
	Intermittent claudication	4,398 (35.6)	1,770 (40.0)	<b>0.14</b>
	Other peripheral atherosclerosis	816 (6.6)	185 (4.2)	0.023
Prior amputation	1,365 (11.0)	500 (11.3)	0.008	
Prior myocardial infarction	2,261 (18.3)	863 (19.5)	0.031	
Tobacco use	7,111 (57.5)	2,711 (61.2)	0.076	
Diabetes	7,048 (57.0)	2,726 (61.6)	0.094	
Hypertension	11,442 (92.5)	4,144 (93.6)	0.043	
Cardiac arrhythmia	4,672 (37.8)	1,504 (34.0)	0.079	
Hypothyroidism	1,989 (16.1)	714 (16.1)	0.001	
Renal failure	4,142 (33.5)	1,527 (34.5)	0.021	
Congestive heart failure	3,891 (31.5)	1,365 (30.8)	0.013	
Pulmonary circulatory disorders	914 (7.4)	288 (6.5)	0.035	
Valve disease	2,471 (20.0)	840 (19.0)	0.025	
Obesity	1,732 (14.0)	630 (14.2)	0.007	
Liver disease	627 (5.1)	211 (4.8)	0.014	
Fluid electrolyte disorder	2,898 (23.4)	996 (22.5)	0.022	
Rheumatoid arthritis	729 (5.9)	257 (5.8)	0.004	
Psychoses	175 (1.4)	47 (1.1)	0.032	
Depression	1,831 (14.8)	697 (15.7)	0.026	
Chronic pulmonary disorders	4,323 (35.0)	1,506 (34.0)	0.02	
Weight loss	847 (6.8)	254 (5.7)	0.046	
Other neurological disorder	1,132 (9.2)	402 (9.1)	0.002	
Peptic ulcer disease	201 (1.6)	58 (1.3)	0.026	
Paralysis	264 (2.1)	89 (2.0)	0.009	
Coagulopathy	951 (7.7)	260 (5.9)	0.072	

Characteristic	PTA/BMS n=12,369	DCB/DES n=4,427	SMD**	
Dementia	847 (6.8)	322 (7.3)	0.017	
Drug abuse	278 (2.2)	95 (2.1)	0.007	
Alcohol abuse	394 (3.2)	110 (2.5)	0.042	
Anaemia	1,372 (11.1)	502 (11.3)	0.008	
Iron deficiency anaemia	327 (2.6)	114 (2.6)	0.004	
AIDS/HIV	36 (0.3)	14 (0.3)	0.005	
Cancer	978 (7.9)	359 (8.1)	0.007	
Outpatient procedure	7,737 (62.6)	2,865 (64.7)	0.045	
Adjunctive atherectomy	4,589 (37.1)	2,095 (47.3)	<b>0.208</b>	
Prior cardio-vascular medications	ACE inhibitor or ARB	4,666 (37.7)	1,812 (40.9)	0.066
	Anticoagulant	1,503 (12.2)	539 (12.2)	0.001
	Beta-blocker	5,169 (41.8)	2,039 (46.1)	0.086
	P2Y <sub>12</sub> inhibitor	3,784 (30.6)	1,662 (37.5)	<b>0.147</b>
	Statin	5,998 (48.5)	2,362 (53.4)	0.097
Plan type	HMO	3,800 (30.7)	752 (17.0)	<b>0.329</b>
	Other	7,350 (59.4)	3,210 (72.5)	
	PPO	1,219 (9.9)	465 (10.5)	
US region	East North Central	1,861 (15.0)	935 (21.1)	<b>0.262</b>
	East South Central	561 (4.5)	224 (5.1)	
	Mid Atlantic	1,222 (9.9)	491 (11.1)	
	Mountain	846 (6.8)	186 (4.2)	
	New England	430 (3.5)	164 (3.7)	
	Pacific	918 (7.4)	232 (5.2)	
	South Atlantic	3,248 (26.3)	1,275 (28.8)	
	West North Central	1,382 (11.2)	301 (6.8)	
	West South Central	1,901 (15.4)	619 (14.0)	

\*Peripheral artery disease diagnoses were not available for all patients included in the study. \*\*A standardised mean difference (SMD) of >0.10 was considered significant. These are bolded in the Table.

devices was associated with a similar cumulative risk of mortality at the end of the observation period (44.2% vs 43.3%), with a non-significant hazard ratio of 0.96 (95% CI: 0.90-1.02, p=0.19) (**Supplementary Figure 2**). The cumulative mortality risk was also comparable following DCB treatment compared with PTA treatment (42.8% vs 42.8%, respectively). However, there was a statistically significant difference in hazards between DCB and PTA in favour of DCB (HR 0.90, 95% CI: 0.84-0.97; p=0.01) (**Supplementary Figure 3**). DES use was associated with greater crude cumulative mortality compared with BMS use (51.0% vs 44.1%, respectively) at the end of the observation period, with a significant difference in the hazards prior to adjustment (HR 1.30, 95% CI: 1.16-1.46; p<0.001) (**Supplementary Figure 4**).

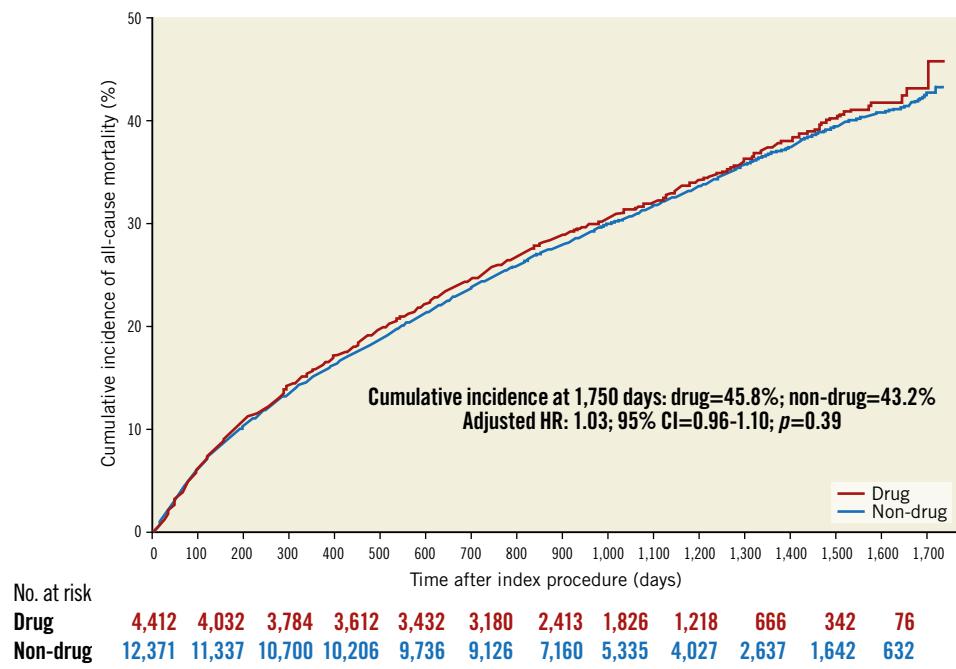
After application of the weights, all patient variables were balanced, with SMDs of <0.1 (**Figure 1, Supplementary Table 5**). In adjusted analysis, treatment with drug-coated devices was not associated with a difference in risk of all-cause mortality compared

with non-drug-coated devices (adjusted HR 1.03, 95% CI: 0.96-1.10; p=0.39) (**Figure 2**). Moreover, no differences in hazards of mortality were observed after stratifying by device type (DCB vs PTA: adjusted HR 1.00; 95% CI: 0.92-1.08; p=0.96, and DES vs BMS: adjusted HR 1.02, 95% CI: 0.88-1.18; p=0.78) (**Figure 3, Figure 4**). There was no difference in the safety signal after landmarking at one year (**Supplementary Figure 5**).

Of all patients, 33.2% had a subsequent intervention during follow-up (**Supplementary Table 6**). Of those who initially did not receive a drug-coated device (N=12,369), 5.8% (N=723) were successively treated with a drug-coated device. Among patients who initially received a drug-coated device (N=4,427), 14.7% (N=649) were successively treated with another drug-coated device.

#### SUBGROUP ANALYSES

Adjusted hazard ratios of all-cause mortality following treatment by drug-coated versus non-drug-coated device for the pre-specified

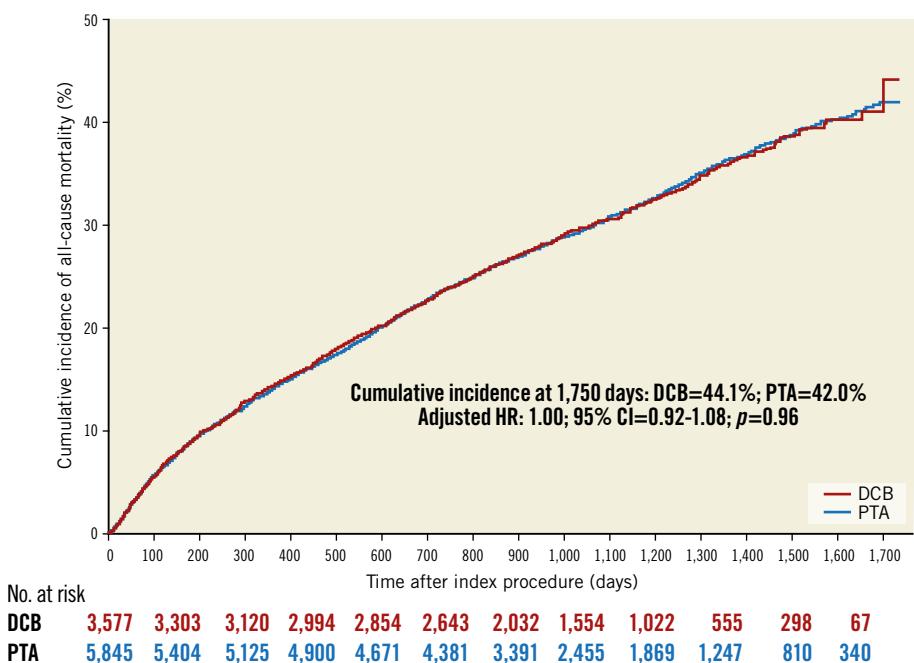


**Figure 2.** Adjusted cumulative incidence of mortality curves of patients treated with drug-coated and non-drug-coated devices. The number at risk is the inverse probability of treatment weighted population.

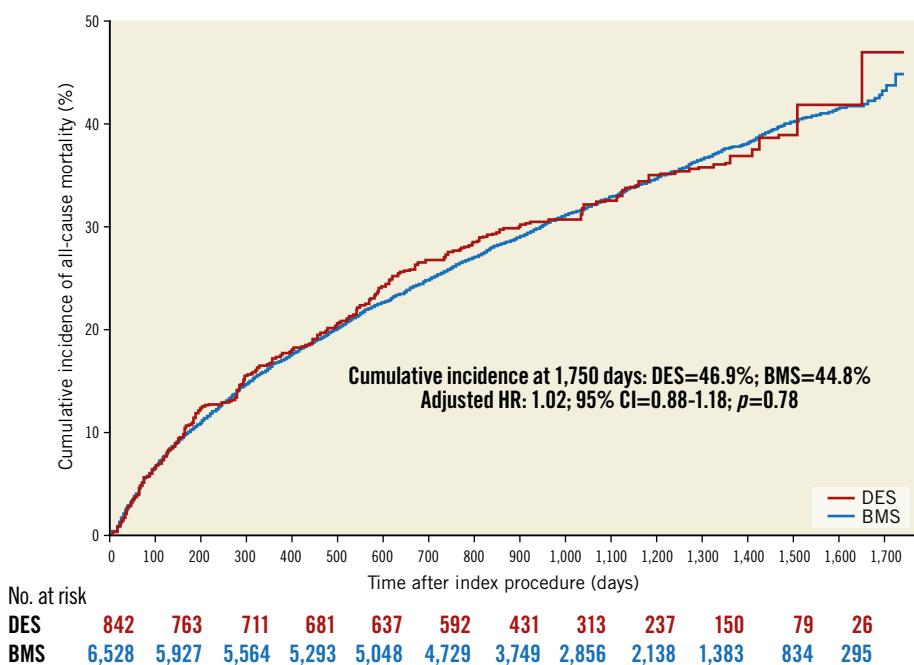
subgroups are shown in **Figure 5**. Revascularisation with drug-coated devices was not associated with lower survival relative to those treated with non-drug-coated devices across different age categories, sex, PAD diagnosis (CLI vs other), procedure setting, or burden of comorbidities (interaction  $p>0.05$  for all).

## Discussion

This large, nationwide analysis examined nearly 17,000 MA enrollees who underwent PVI and were followed for up to four years, with more than 25% treated with a drug-coated device. Although we used IPTW to ensure comparable groups



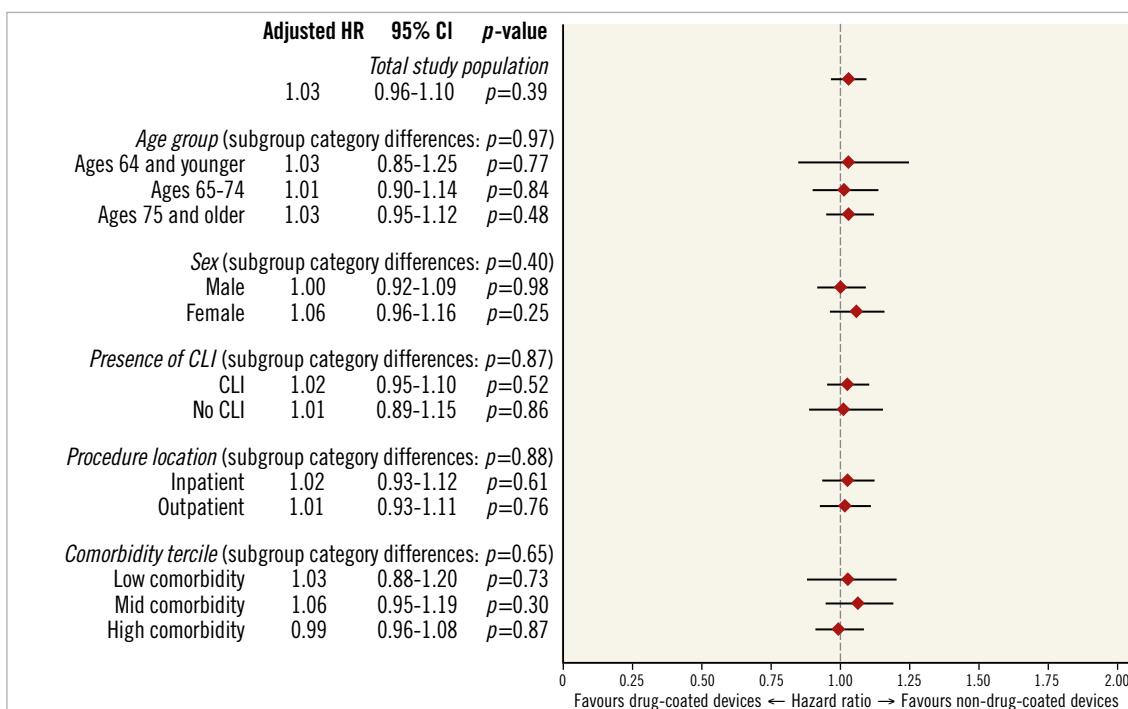
**Figure 3.** Adjusted cumulative incidence of mortality curves of patients treated with drug-coated and non-drug-coated balloons. The number at risk is the inverse probability of treatment weighted population.



**Figure 4.** Adjusted cumulative incidence of mortality curves of patients treated with drug-eluting stents and bare metal stents. The number at risk is the inverse probability of treatment weighted population.

for analyses, the majority of sociodemographic characteristics and comorbidities of those treated with and without drug-coated devices were similar ( $SMD < 0.1$ ) prior to adjustment. In both unadjusted and adjusted analyses, we found no evidence

of reduced long-term survival among those treated with drug-coated devices compared with non-drug-coated devices. A similar finding was observed among the subgroup of patients treated with DCB compared with PTA. Although there was a difference



**Figure 5.** Adjusted subgroup analyses of drug-coated versus non-drug-coated devices and all-cause mortality. Each subgroup underwent separate inverse probability of treatment weighting. Interaction tests for differences between categories within each subgroup were estimated using seemingly unrelated regression.

in mortality for patients treated with DES relative to BMS prior to adjustment, there was not a statistically significant difference in the adjusted hazard ratio. Furthermore, the overall findings persisted irrespective of procedure setting, PAD severity, age, sex, or burden of comorbidities.

The initial meta-analysis that found evidence of long-term harm associated with drug-coated devices had an immediate impact on clinical care, with peripheral paclitaxel-coated device trials being halted and ongoing device use being limited<sup>6</sup>. However, as these data were further evaluated, multiple limitations have been identified. The included randomised trials were small and underpowered for important subgroup analyses, had a sizeable degree of heterogeneity in patient characteristics and device types, and had a large proportion of missing survival data<sup>23</sup>. These limitations were further highlighted by an individual patient-level data meta-analysis, which demonstrated substantial attenuation in mortality risk with the addition of more complete follow-up data<sup>24</sup>.

Nevertheless, as a result of the detection of this mortality signal, there has been a call for more data to provide evidence of long-term safety of drug-coated devices. Although randomised clinical trials are the standard approach to evaluating device safety, the impracticality of performing a *de novo* trial of sufficient size and duration to exonerate an association with death promptly shifted the focus to RWD as a primary source of continued device evaluation. The strength of RWD in this circumstance includes: the large number of procedures performed prior to the publication of the meta-analysis; the broad population of PAD patients that are captured; availability of baseline characteristics, comorbidities, and prescribed medications; and the ability to evaluate survival on an ongoing basis as mortality records continue to become available. This last feature is particularly salient, as patients treated after the paclitaxel mortality controversy are likely to differ substantially with regard to overall disease severity and adverse event risk compared with patients treated prior to publication.

This analysis builds upon prior studies by using RWD to evaluate the long-term safety of drug-coated devices in the following ways<sup>12-18</sup>. Unique to this data set is the inclusion of a large, representative U.S. patient population that has not yet been studied. Prior Medicare analyses have only focused on fee-for-service beneficiaries<sup>12,13,18</sup>, whereas the MA population typically represents a healthier elderly population for whom there may be less competing risk of death<sup>21</sup>. Furthermore, the analysis is strengthened by the use of both inpatient and outpatient procedural data, as well as adjustment for differences in medication use at the time of the procedure. This study also fills a necessary gap relative to the randomised trial data, as the ascertainment of mortality in Medicare data is near complete, whereas RCTs were lacking follow-up in up to 40% of patients, and with 10% still missing in the updated patient-level meta-analysis<sup>23,24</sup>.

With these considerations in mind, our analysis did not demonstrate any evidence of harm associated with drug-coated devices, both among all-comers and among key patient subgroups. The lack

of any evidence of harm with these devices has now been replicated in a number of real-world studies and should further the conversation regarding the true safety of paclitaxel-coated devices used in peripheral arterial revascularisation.

## Limitations

This analysis must be interpreted within the context of its design. First, this study is a retrospective, observational analysis, and the causal effect of treatment on all-cause mortality may be influenced by unobserved confounders. However, the strong similarities in measured patient characteristics between the two groups prior to IPTW adjustment as well as the similar mortality rates in both unadjusted and adjusted analyses suggest that treatment selection bias may be less influential in this comparison. Second, claims data lack clinical detail that may be relevant to treatment choice and mortality, such as lesion length and number of balloons or stents used. Although these variables may be important for device selection, they have not been found to predict long-term mortality<sup>25,26</sup>. Insurance claims data also lack the device details needed to calculate cumulative paclitaxel exposure. Third, although the data include a median follow-up time of approximately two years, with some patient follow-up up to four years, there were mortality effects found in the meta-analysis beyond the median follow-up time in our data. Lastly, the study population is not necessarily representative of all MA patients, as these data are only from a single MA vendor.

## Conclusions

In this large cohort of MA beneficiaries, there was no evidence of increased long-term mortality following treatment with drug-coated devices. These findings persisted by device type, procedure setting, and patient characteristics. This analysis is the first to involve an MA patient population and contributes to a growing body of RWD finding no association between drug-eluting devices and harm in routine clinical practice.

## Impact on daily practice

In this large cohort, there was no evidence of increased long-term mortality following treatment with drug-coated devices. These findings persisted by device type, procedure setting, and patient characteristics. This analysis is the first to involve a Medicare Advantage patient population, which makes up more than one third of Medicare coverage, and contributes to a growing body of real-world studies finding no association between drug-eluting devices and harm in routine clinical practice.

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was created collaboratively with statisticians from the Center for Devices and Radiologic Health of the U.S. FDA. Medtronic had full access to all the data and conducted the analysis with an outcome-blind approach using two analysts. Dr Secemsky wrote the first draft of the manuscript, and Drs Secemsky and Yeh reviewed all data and output and made the final decision to publish.

## Conflict of interest statement

M. Bonaca reports grants/other from Amgen, AstraZeneca, Audentes, Bayer, BIDMC, BMS, Janssen, Lexicon, Medtronic, Merck, NovoNordisk, Pfizer, and Regeneron. C. Hess reports grants from Merck, Janssen, Bayer, and Amgen. E. Secemsky reports grants/personal fees from Medtronic, BD, Cook, CSI, Boston Scientific and Philips, personal fees from Abbott and Janssen, and grants from AstraZeneca. He is funded by NIH/NHLBI K23HL150290 and Harvard Medical School's Shore Faculty Development Award. R. Yeh reports grants/personal fees from Medtronic, Abbott Vascular, and Boston Scientific, and grants from BD Bard, Cook Medical, and Philips Medical. B. Manda, L. Bockstedt, E. Barrette, J. Monteiro and T. Hanson report employment from Medtronic.

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## Supplementary data

**Supplementary Figure 1.** Patient flow diagram.

**Supplementary Figure 2.** Unadjusted cumulative incidence of mortality curves of patients treated with drug-coated and non-drug-coated devices.

**Supplementary Figure 3.** Unadjusted cumulative incidence of mortality curves of patients treated with drug-coated and non-drug-coated balloons.

**Supplementary Figure 4.** Unadjusted cumulative incidence of mortality curves of patients treated with drug-eluting stents and bare metal stents.

**Supplementary Figure 5.** Adjusted cumulative incidence of mortality curves of patients treated with drug-coated and non-drug-coated devices in the one-year landmark analysis.

**Supplementary Table 1.** Codes of femoropopliteal artery revascularisation.

**Supplementary Table 2.** Elixhauser comorbidity diagnosis codes.

**Supplementary Table 3.** Other comorbidity diagnosis codes.

**Supplementary Table 4.** Prescription drug codes.

**Supplementary Table 5.** Weighted baseline characteristics of femoropopliteal artery revascularisation patients, stratified by treatment with drug-coated devices versus non-drug-coated devices.

**Supplementary Table 6.** Repeat revascularisation rates and drug-coated device exposure.

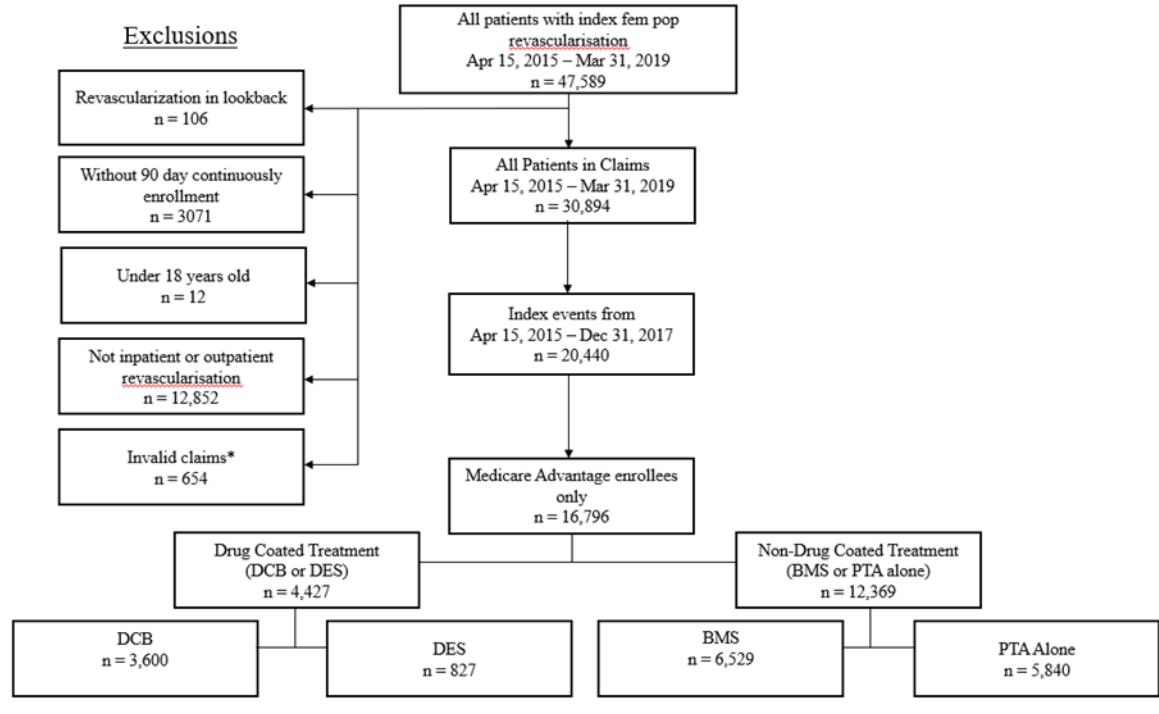
*The supplementary data are published online at:*

*<https://eurointervention.pcronline.com/>*

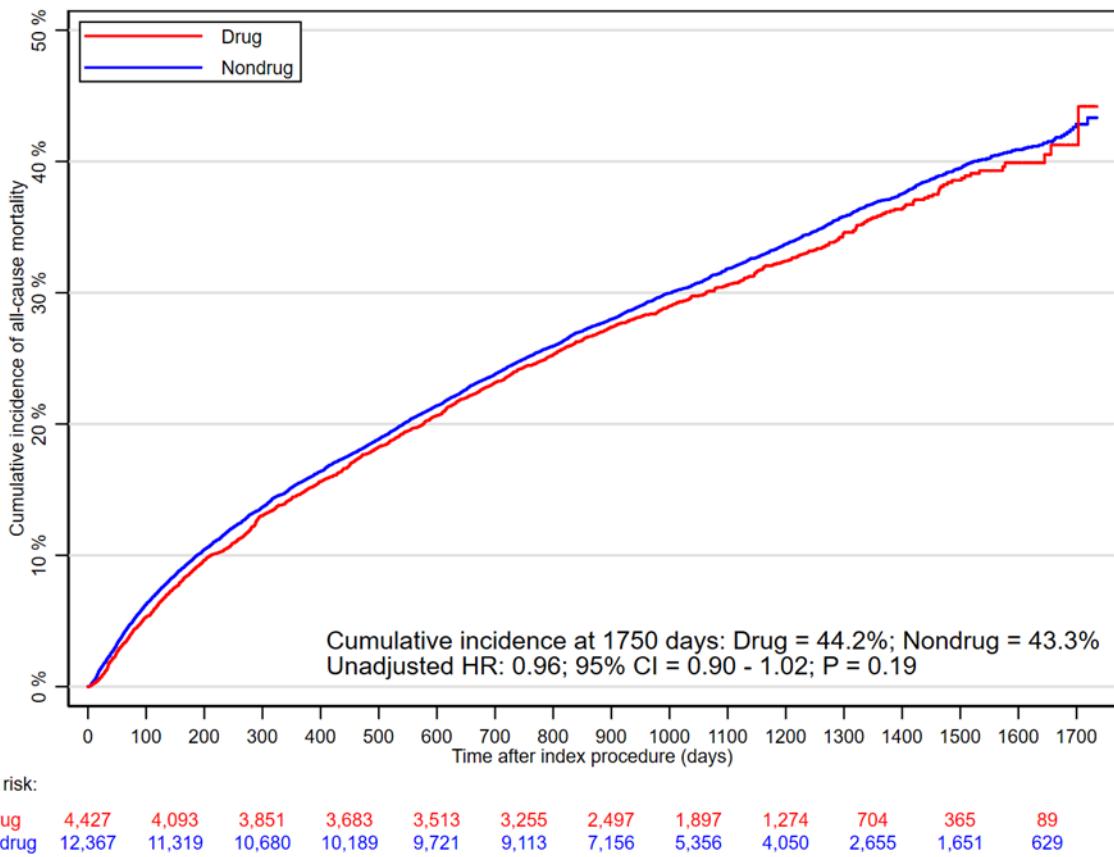
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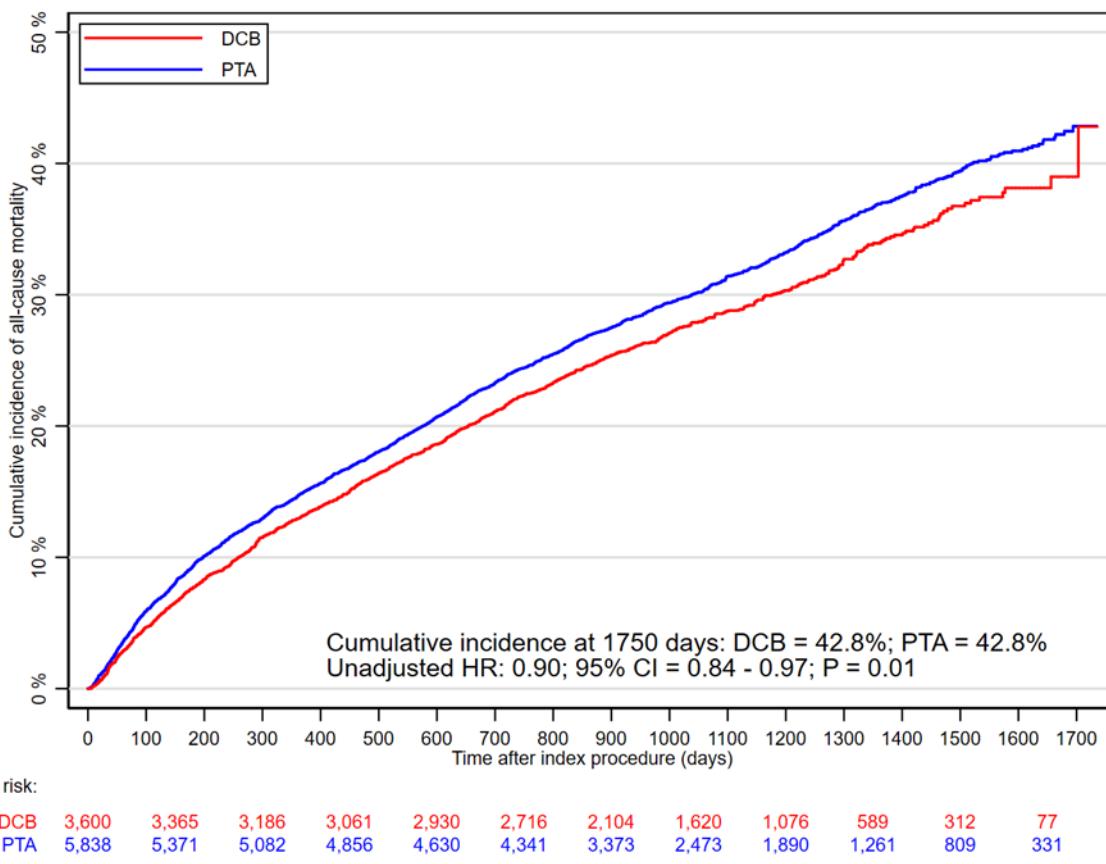
## Supplementary data



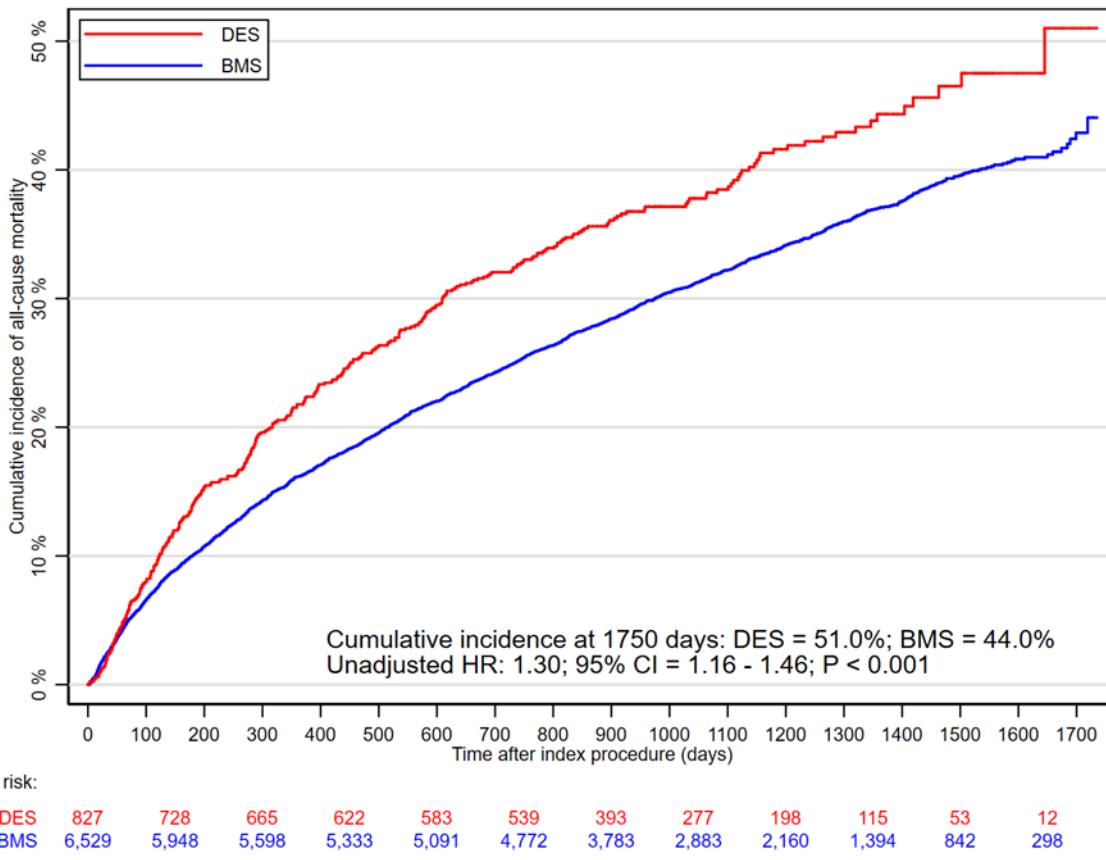
**Supplementary Figure 1.** Patient flow diagram.



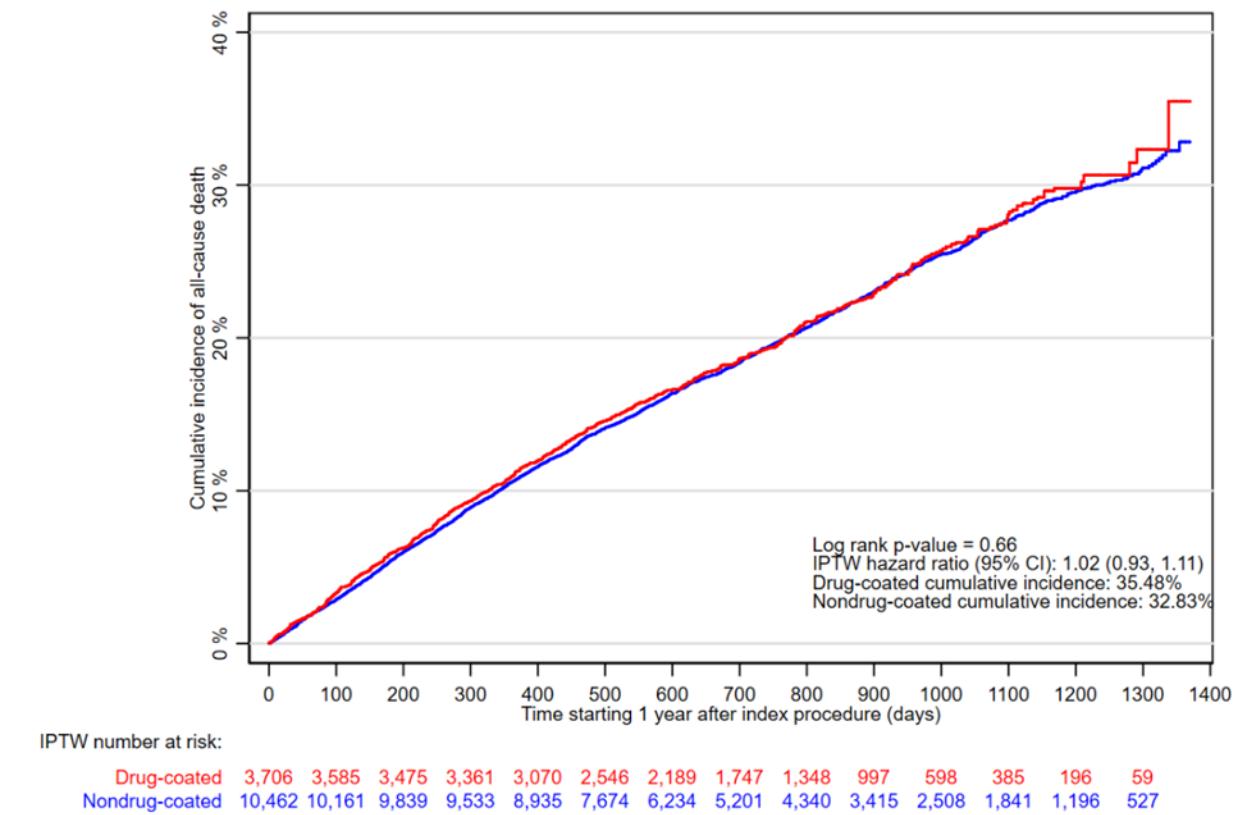
**Supplementary Figure 2.** Unadjusted cumulative incidence of mortality curves of patients treated with drug-coated and non-drug-coated devices.



**Supplementary Figure 3.** Unadjusted cumulative incidence of mortality curves of patients treated with drug-coated and non-drug-coated balloons.



**Supplementary Figure 4.** Unadjusted cumulative incidence of mortality curves of patients treated with drug-eluting stents and bare metal stents.



**Supplementary Figure 5.** Adjusted cumulative incidence of mortality curves of patients treated with drug-coated and non-drug-coated devices in the one-year landmark analysis.

**Supplementary Table 1. Codes of femoropopliteal artery revascularisation.**

	<b>ICD-10-PCS</b>	<b>CPT</b>
Drug-coated balloon	047K3Z1, 047L3Z1, 047M3Z1, 047N3Z1, 047K3D1, 047L3D1, 047M3D1, 047N3D1	37224, 37225, 37226, or 37227 with C2623
Uncoated percutaneous transluminal angioplasty balloon	047K3Z6, 047K3ZZ, 047L3ZZ, 047L3Z6, 047M3Z6, 047M3ZZ, 047N3Z6, 047N3ZZ	37224 or 37225
Drug-eluting stent	047K341, 047L341, 047M341, 047N341, 047K346, 047K34Z, 047K356, 047K35Z, 047K366, 047K36Z, 047K376, 047K37Z, 047L346, 047L34Z, 047L356, 047L35Z, 047L366, 047L36Z, 047L376, 047L37Z, 047M346, 047M34Z, 047M356, 047M35Z, 047M366, 047M36Z, 047M376, 047M37Z, 047N346, 047N34Z, 047N356, 047N35Z, 047N366, 047N36Z, 047N376, 047N37Z	37226 or 37227 with C1874 or C1875
Bare metal stent	047K3D6, 047K3DZ, 047K3E6, 047K3EZ, 047K3F6, 047K3FZ, 047K3G6, 047K3GZ, 047L3D6, 047L3DZ, 047L3E6, 047L3EZ, 047L3F6, 047L3FZ, 047L3G6, 047L3GZ, 047M3D6, 047M3DZ, 047M3E6, 047M3EZ, 047M3F6, 047M3FZ, 047M3G6, 047M3GZ, 047N3D6, 047N3DZ, 047N3E6, 047N3EZ, 047N3F6, 047N3FZ, 047N3G6, 047N3GZ	37226 or 37227
Atherectomy	04CK3ZZ, 04CL3ZZ, 04CM3ZZ, 04CN3ZZ	

**Supplementary Table 2. Elixhauser comorbidity diagnosis codes.**

	ICD-9	ICD-10
AIDS/HIV	42	B20
Alcohol abuse	265.2, 291.1, 291.2, 291.3, 291.5, 291.81, 291.82, 291.89, 291.9, 303, 303.01, 303.02, 303.03, 303.9, 303.91, 303.92, 303.93, 305, 305.01, 305.02, 305.03, 357.5, 425.5, 535.3, 535.31, 571, 571.1, 571.2, 571.3, 980, 980.1, 980.2, 980.3, 980.8, 980.9, V11.3	E52, F10.10, F10.11, F10.120, F10.121, F10.129, F10.14, F10.150, F10.151, F10.159, F10.180, F10.181, F10.182, F10.188, F10.19, F10.20, F10.21, F10.220, F10.221, F10.229, F10.230, F10.231, F10.232, F10.239, F10.24, F10.250, F10.251, F10.259, F10.26, F10.27, F10.280, F10.281, F10.282, F10.288, F10.29, F10.920, F10.921, F10.929, F10.94, F10.950, F10.951, F10.959, F10.96, F10.97, F10.980, F10.981, F10.982, F10.988, F10.99, G62.1, I42.6, K29.20, K29.21, K70.0, K70.30, K70.31, K70.9, T51.0X1A, T51.0X1D, T51.0X1S, T51.0X2A, T51.0X2D, T51.0X2S, T51.0X3A, T51.0X3D, T51.0X3S, T51.0X4A, T51.0X4D, T51.0X4S, T51.1X1A, T51.1X1D, T51.1X1S, T51.1X2A, T51.1X2D, T51.1X2S, T51.1X3A, T51.1X3D, T51.1X3S, T51.1X4A, T51.1X4D, T51.1X4S, T51.2X1A, T51.2X1D, T51.2X1S, T51.2X2A, T51.2X2D, T51.2X2S, T51.2X3A, T51.2X3D, T51.2X3S, T51.2X4A, T51.2X4D, T51.2X4S, T51.3X1A, T51.3X1D, T51.3X1S, T51.3X2A, T51.3X2D, T51.3X2S, T51.3X3A, T51.3X3D, T51.3X3S, T51.3X4A, T51.3X4D, T51.3X4S, T51.8X1A, T51.8X1D, T51.8X1S, T51.8X2A, T51.8X2D, T51.8X2S, T51.8X3A, T51.8X3D, T51.8X3S, T51.8X4A, T51.8X4D, T51.8X4S, T51.91XA, T51.91XD, T51.91XS, T51.92XA, T51.92XD, T51.92XS, T51.93XA, T51.93XD, T51.93XS, T51.94XA, T51.94XD, T51.94XS, Z71.41, Z71.42
Anaemia	280.1, 280.8, 280.9, 281, 281.1, 281.2, 281.3, 281.4, 281.8, 281.9	D50.8, D50.9, D51.0, D51.1, D51.2, D51.3, D51.8, D51.9, D52.0, D52.1, D52.8, D52.9, D53.0, D53.1, D53.2, D53.8, D53.9
Cancer	200, 200.01, 200.02, 200.03, 200.04, 200.05, 200.06, 200.07, 200.08, 200.1, 200.11, 200.12, 200.13, 200.14, 200.15, 200.16, 200.17, 200.18, 200.2, 200.21, 200.22, 200.23, 200.24, 200.25, 200.26, 200.27, 200.28, 200.3, 200.31, 200.32, 200.33, 200.34, 200.35, 200.36, 200.37, 200.38, 200.4, 200.41, 200.42, 200.43, 200.44, 200.45, 200.46, 200.47, 200.48, 200.5, 200.51, 200.52, 200.53, 200.54, 200.55, 200.56, 200.57, 200.58, 200.6, 200.61, 200.62, 200.63, 200.64, 200.65, 200.66, 200.67, 200.68, 200.7, 200.71, 200.72, 200.73, 200.74, 200.75, 200.76, 200.77, 200.78, 200.8, 200.81, 200.82, 200.83, 200.84, 200.85, 200.86, 200.87,	C81.00, C81.01, C81.02, C81.03, C81.04, C81.05, C81.06, C81.07, C81.08, C81.09, C81.10, C81.11, C81.12, C81.13, C81.14, C81.15, C81.16, C81.17, C81.18, C81.19, C81.20, C81.21, C81.22, C81.23, C81.24, C81.25, C81.26, C81.27, C81.28, C81.29, C81.30, C81.31, C81.32, C81.33, C81.34, C81.35, C81.36, C81.37, C81.38, C81.39, C81.40, C81.41, C81.42, C81.43, C81.44, C81.45, C81.46, C81.47, C81.48, C81.49, C81.70, C81.71, C81.72, C81.73, C81.74, C81.75, C81.76, C81.77, C81.78, C81.79, C81.90, C81.91, C81.92, C81.93, C81.94, C81.95, C81.96, C81.97, C81.98, C81.99, C82.00, C82.01, C82.02, C82.03, C82.04, C82.05, C82.06, C82.07, C82.08, C82.09, C82.10, C82.11, C82.12, C82.13, C82.14, C82.15, C82.16, C82.17, C82.18, C82.19, C82.20, C82.21, C82.22, C82.23, C82.24, C82.25, C82.26, C82.27, C82.28, C82.29, C82.30, C82.31, C82.32, C82.33, C82.34, C82.35, C82.36, C82.37, C82.38, C82.39, C82.40, C82.41, C82.42, C82.43, C82.44, C82.45, C82.46, C82.47, C82.48, C82.49, C82.50, C82.51, C82.52, C82.53, C82.54, C82.55, C82.56, C82.57, C82.58, C82.59, C82.60, C82.61, C82.62, C82.63, C82.64, C82.65, C82.66, C82.67, C82.68, C82.69,





	188.8, 188.9, 189, 189.1, 189.2, 189.3, 189.4, 189.8, 189.9, 190, 190.1, 190.2, 190.3, 190.4, 190.5, 190.6, 190.7, 190.8, 190.9, 191, 191.1, 191.2, 191.3, 191.4, 191.5, 191.6, 191.7, 191.8, 191.9, 192, 192.1, 192.2, 192.3, 192.8, 192.9, 193, 194, 194.1, 194.3, 194.4, 194.5, 194.6, 194.8, 194.9, 195, 195.1, 195.2, 195.3, 195.4, 195.5, 195.8	C72.50, C72.59, C72.9, C73, C74.00, C74.01, C74.02, C74.10, C74.11, C74.12, C74.90, C74.91, C74.92, C75.0, C75.1, C75.2, C75.3, C75.4, C75.5, C75.8, C75.9, C76.0, C76.1, C76.2, C76.3, C76.40, C76.41, C76.42, C76.50, C76.51, C76.52, C76.8, C7A.00, C7A.010, C7A.011, C7A.012, C7A.019, C7A.020, C7A.021, C7A.022, C7A.023, C7A.024, C7A.025, C7A.026, C7A.029, C7A.090, C7A.091, C7A.092, C7A.093, C7A.094, C7A.095, C7A.096, C7A.098, C7A.1, C7A.8
Cardiac arrhythmia	426, 426.1, 426.12, 426.13, 426.7, 426.9, 427, 427.1, 427.2, 427.31, 427.32, 427.41, 427.42, 427.6, 427.61, 427.69, 427.81, 427.89, 427.9, 785, 996.01, 996.04, V45.00, V45.01, V45.02, V45.09, V53.31, V53.32, V53.39	I44.1, I44.2, I44.30, I44.39, I45.6, I45.9, I47.0, I47.1, I47.2, I47.9, I48.0, I48.1, I48.2, I48.3, I48.4, I48.91, I48.92, I49.01, I49.02, I49.1, I49.2, I49.3, I49.40, I49.49, I49.5, I49.8, I49.9, R00.0, R00.1, R00.8, T82.110A, T82.110D, T82.110S, T82.111A, T82.111D, T82.111S, T82.118A, T82.118D, T82.118S, T82.119A, T82.119D, T82.119S, T82.120A, T82.120D, T82.120S, T82.121A, T82.121D, T82.121S, T82.128A, T82.128D, T82.128S, T82.129A, T82.129D, T82.129S, T82.190A, T82.190D, T82.190S, T82.191A, T82.191D, T82.191S, T82.198A, T82.198D, T82.198S, T82.199A, T82.199D, T82.199S, Z45.010, Z45.018, Z45.02, Z45.09, Z95.0
Chronic pulmonary disorders	416.8, 416.9, 490, 491, 491.1, 491.2, 491.21, 491.22, 491.8, 491.9, 492, 492.8, 493, 493.01, 493.02, 493.1, 493.11, 493.12, 493.2, 493.21, 493.22, 493.81, 493.82, 493.9, 493.91, 493.92, 494, 494.1, 495, 495.1, 495.2, 495.3, 495.4, 495.5, 495.6, 495.7, 495.8, 495.9, 496, 500, 501, 502, 503, 504, 505, 506.4, 508.1, 508.8	I27.81, I27.82, I27.83, I27.89, I27.9, J40, J41.0, J41.1, J41.8, J42, J43.0, J43.1, J43.2, J43.8, J43.9, J44.0, J44.1, J44.9, J45.20, J45.21, J45.22, J45.30, J45.31, J45.32, J45.40, J45.41, J45.42, J45.50, J45.51, J45.52, J45.901, J45.902, J45.909, J45.990, J45.991, J45.998, J47.0, J47.1, J47.9, J60, J61, J62.0, J62.8, J63.0, J63.1, J63.2, J63.3, J63.4, J63.5, J63.6, J64, J65, J66.0, J66.1, J66.2, J66.8, J67.0, J67.1, J67.2, J67.3, J67.4, J67.5, J67.6, J67.7, J67.8, J67.9, J68.4, J70.1, J70.3
Coagulopathy	286, 286.1, 286.2, 286.3, 286.4, 286.5, 286.52, 286.53, 286.59, 286.6, 286.7, 286.9, 287.1, 287.3, 287.31, 287.32, 287.33, 287.39, 287.4, 287.41, 287.49, 287.5	D65, D66, D67, D68.0, D68.1, D68.2, D68.311, D68.312, D68.318, D68.32, D68.4, D68.51, D68.52, D68.59, D68.61, D68.62, D68.69, D68.8, D68.9, D69.1, D69.3, D69.41, D69.42, D69.49, D69.51, D69.59, D69.6
Congestive heart failure	398.91, 402.01, 402.11, 402.91, 404.01, 404.03, 404.11, 404.13, 404.91, 404.93, 425.4, 425.5, 425.7, 425.8, 425.9, 428, 428.1, 428.2, 428.21, 428.22, 428.23, 428.3, 428.31, 428.32, 428.33, 428.4, 428.41, 428.42, 428.43, 428.9	I09.9, I11.0, I13.0, I13.2, I25.5, I42.0, I42.5, I42.6, I42.7, I42.8, I42.9, I43, I50.1, I50.20, I50.21, I50.22, I50.23, I50.30, I50.31, I50.32, I50.33, I50.40, I50.41, I50.42, I50.43, I50.810, I50.811, I50.812, I50.813, I50.814, I50.82, I50.83, I50.84, I50.89, I50.9, P29.0
Depression	296.2, 296.21, 296.22, 296.23, 296.24, 296.25, 296.26, 296.3, 296.31, 296.32, 296.33, 296.34,	F31.30, F31.31, F31.32, F31.4, F31.5, F32.0, F32.1, F32.2, F32.3, F32.4, F32.5, F32.8, F32.81, F32.89, F32.9, F33.0, F33.1, F33.2, F33.3, F33.40, F33.41, F33.42, F33.8, F33.9,

	296.35, 296.36, 296.5, 296.51, 296.52, 296.53, 296.54, 296.55, 296.56, 300.4, 309, 309.1, 309.21, 309.22, 309.23, 309.24, 309.28, 309.29, 309.3, 309.4, 309.81, 309.82, 309.83, 309.89, 309.9, 311	F34.1, F43.20, F43.21, F43.22, F43.23, F43.24, F43.25, F43.29
Diabetes	250.4, 250.41, 250.42, 250.43, 250.5, 250.51, 250.52, 250.53, 250.6, 250.61, 250.62, 250.63, 250.7, 250.71, 250.72, 250.73, 250.8, 250.81, 250.82, 250.83, 250.9, 250.91, 250.92, 250.93, 250, 250.01, 250.02, 250.03, 250.1, 250.11, 250.12, 250.13, 250.2, 250.21, 250.22, 250.23, 250.3, 250.31, 250.32, 250.33	E10.21, E10.22, E10.29, E10.311, E10.319, E10.321, E10.3211, E10.3212, E10.3213, E10.3219, E10.329, E10.3291, E10.3292, E10.3293, E10.3299, E10.331, E10.3311, E10.3312, E10.3313, E10.3319, E10.339, E10.3391, E10.3392, E10.3393, E10.3399, E10.341, E10.3411, E10.3412, E10.3413, E10.3419, E10.349, E10.3491, E10.3492, E10.3493, E10.3499, E10.351, E10.3511, E10.3512, E10.3513, E10.3519, E10.3521, E10.3522, E10.3523, E10.3529, E10.3531, E10.3532, E10.3533, E10.3539, E10.3541, E10.3542, E10.3543, E10.3549, E10.3551, E10.3552, E10.3553, E10.3559, E10.359, E10.3591, E10.3592, E10.3593, E10.3599, E10.36, E10.37X1, E10.37X2, E10.37X3, E10.37X9, E10.39, E10.40, E10.41, E10.42, E10.43, E10.44, E10.49, E10.51, E10.52, E10.59, E10.610, E10.618, E10.620, E10.621, E10.622, E10.628, E10.630, E10.638, E10.641, E10.649, E10.65, E10.69, E10.8, E11.21, E11.22, E11.29, E11.311, E11.319, E11.321, E11.3211, E11.3212, E11.3213, E11.3219, E11.329, E11.3291, E11.3292, E11.3293, E11.3299, E11.331, E11.3311, E11.3312, E11.3313, E11.3319, E11.339, E11.3391, E11.3392, E11.3393, E11.3399, E11.341, E11.3411, E11.3412, E11.3413, E11.3419, E11.349, E11.3491, E11.3492, E11.3493, E11.3499, E11.351, E11.3511, E11.3512, E11.3513, E11.3519, E11.3521, E11.3522, E11.3523, E11.3529, E11.3531, E11.3532, E11.3533, E11.3539, E11.3541, E11.3542, E11.3543, E11.3549, E11.3551, E11.3552, E11.3553, E11.3559, E11.359, E11.3591, E11.3592, E11.3593, E11.3599, E11.36, E11.37X1, E11.37X2, E11.37X3, E11.37X9, E11.39, E11.40, E11.41, E11.42, E11.43, E11.44, E11.49, E11.51, E11.52, E11.59, E11.610, E11.618, E11.620, E11.621, E11.622, E11.628, E11.630, E11.638, E11.641, E11.649, E11.65, E11.69, E11.8, E13.21, E13.22, E13.29, E13.311, E13.319, E13.321, E13.3211, E13.3212, E13.3213, E13.3219, E13.329, E13.3291, E13.3292, E13.3293, E13.3299, E13.331, E13.3311, E13.3312, E13.3313, E13.3319, E13.339, E13.3391, E13.3392, E13.3393, E13.3399, E13.341, E13.3411, E13.3412, E13.3413, E13.3419, E13.349, E13.3491, E13.3492, E13.3493, E13.3499, E13.351, E13.3511, E13.3512, E13.3513, E13.3519, E13.3521, E13.3522, E13.3523, E13.3529, E13.3531, E13.3532, E13.3533, E13.3539, E13.3541, E13.3542, E13.3543, E13.3543, E13.3549, E13.3551, E13.3552, E13.3553, E13.3559, E13.359,

		E13.3591, E13.3592, E13.3593, E13.3599, E13.36, E13.37X1, E13.37X2, E13.37X3, E13.37X9, E13.39, E13.40, E13.41, E13.42, E13.43, E13.44, E13.49, E13.51, E13.52, E13.59, E13.610, E13.618, E13.620, E13.621, E13.622, E13.628, E13.630, E13.638, E13.641, E13.649, E13.65, E13.69, E13.8, E10.10, E10.11, E10.9, E11.00, E11.01, E11.10, E11.11, E11.9, E13.00, E13.01, E13.10, E13.11, E13.9
Drug abuse	292, 292.11, 292.12, 292.2, 292.81, 292.82, 292.83, 292.84, 292.85, 292.89, 292.9, 304, 304.01, 304.02, 304.03, 304.1, 304.11, 304.12, 304.13, 304.2, 304.21, 304.22, 304.23, 304.3, 304.31, 304.32, 304.33, 304.4, 304.41, 304.42, 304.43, 304.5, 304.51, 304.52, 304.53, 304.6, 304.61, 304.62, 304.63, 304.7, 304.71, 304.72, 304.73, 304.8, 304.81, 304.82, 304.83, 304.9, 304.91, 304.92, 304.93, 305.2, 305.21, 305.22, 305.23, 305.3, 305.31, 305.32, 305.33, 305.4, 305.41, 305.42, 305.43, 305.5, 305.51, 305.52, 305.53, 305.6, 305.61, 305.62, 305.63, 305.7, 305.71, 305.72, 305.73, 305.8, 305.81, 305.82, 305.83, 305.9, 305.91, 305.92, 305.93, V65.42	F11.10, F11.11, F11.120, F11.121, F11.122, F11.129, F11.14, F11.150, F11.151, F11.159, F11.181, F11.182, F11.188, F11.19, F11.20, F11.21, F11.220, F11.221, F11.222, F11.229, F11.23, F11.24, F11.250, F11.251, F11.259, F11.281, F11.282, F11.288, F11.29, F11.90, F11.920, F11.921, F11.922, F11.929, F11.93, F11.94, F11.950, F11.951, F11.959, F11.981, F11.982, F11.988, F11.99, F12.10, F12.11, F12.120, F12.121, F12.122, F12.129, F12.150, F12.151, F12.159, F12.180, F12.188, F12.19, F12.20, F12.21, F12.220, F12.221, F12.222, F12.229, F12.250, F12.251, F12.259, F12.280, F12.288, F12.29, F12.90, F12.920, F12.921, F12.922, F12.929, F12.950, F12.951, F12.959, F12.980, F12.988, F12.99, F13.10, F13.11, F13.120, F13.121, F13.129, F13.14, F13.150, F13.151, F13.159, F13.180, F13.181, F13.182, F13.188, F13.19, F13.20, F13.21, F13.220, F13.221, F13.229, F13.230, F13.231, F13.232, F13.239, F13.24, F13.250, F13.251, F13.259, F13.26, F13.27, F13.280, F13.281, F13.282, F13.288, F13.29, F13.90, F13.920, F13.921, F13.929, F13.930, F13.931, F13.932, F13.939, F13.94, F13.950, F13.951, F13.959, F13.96, F13.97, F13.980, F13.981, F13.982, F13.988, F13.99, F14.10, F14.11, F14.120, F14.121, F14.122, F14.129, F14.14, F14.150, F14.151, F14.159, F14.180, F14.181, F14.182, F14.188, F14.19, F14.20, F14.21, F14.220, F14.221, F14.222, F14.229, F14.23, F14.24, F14.250, F14.251, F14.259, F14.280, F14.281, F14.282, F14.288, F14.29, F14.90, F14.920, F14.921, F14.922, F14.929, F14.94, F14.950, F14.951, F14.959, F14.980, F14.981, F14.982, F14.988, F14.99, F15.10, F15.11, F15.120, F15.121, F15.122, F15.129, F15.14, F15.150, F15.151, F15.159, F15.180, F15.181, F15.182, F15.188, F15.19, F15.20, F15.21, F15.220, F15.221, F15.222, F15.229, F15.23, F15.24, F15.250, F15.251, F15.259, F15.280, F15.281, F15.282, F15.288, F15.29, F15.90, F15.920, F15.921, F15.922, F15.929, F15.93, F15.94, F15.950, F15.951, F15.959, F15.980, F15.981, F15.982, F15.988, F15.99, F16.10, F16.11, F16.120, F16.121, F16.122, F16.129, F16.14, F16.150, F16.151, F16.159, F16.180, F16.183, F16.188, F16.19, F16.20, F16.21, F16.220, F16.221, F16.229, F16.24, F16.250, F16.251, F16.259, F16.280, F16.283, F16.288, F16.29, F16.90, F16.920, F16.921, F16.929, F16.94, F16.950, F16.951, F16.959, F16.980,

		F16.983, F16.988, F16.99, F18.10, F18.11, F18.120, F18.121, F18.129, F18.14, F18.150, F18.151, F18.159, F18.17, F18.180, F18.188, F18.19, F18.20, F18.21, F18.220, F18.221, F18.229, F18.24, F18.250, F18.251, F18.259, F18.27, F18.280, F18.288, F18.29, F18.90, F18.920, F18.921, F18.929, F18.94, F18.950, F18.951, F18.959, F18.97, F18.980, F18.988, F18.99, F19.10, F19.11, F19.120, F19.121, F19.122, F19.129, F19.14, F19.150, F19.151, F19.159, F19.16, F19.17, F19.180, F19.181, F19.182, F19.188, F19.19, F19.20, F19.21, F19.220, F19.221, F19.222, F19.229, F19.230, F19.231, F19.232, F19.239, F19.24, F19.250, F19.251, F19.259, F19.26, F19.27, F19.280, F19.281, F19.282, F19.288, F19.29, F19.90, F19.920, F19.921, F19.922, F19.929, F19.930, F19.931, F19.932, F19.939, F19.94, F19.950, F19.951, F19.959, F19.96, F19.97, F19.980, F19.981, F19.982, F19.988, F19.99, Z71.51, Z71.52
Fluid electrolyte disorder	253.6, 276, 276.1, 276.2, 276.3, 276.4, 276.5, 276.51, 276.52, 276.6, 276.61, 276.69, 276.7, 276.8, 276.9	E22.2, E86.0, E86.1, E86.9, E87.0, E87.1, E87.2, E87.3, E87.4, E87.5, E87.6, E87.70, E87.71, E87.79, E87.8
Hypertension	402, 402.01, 402.1, 402.11, 402.9, 402.91, 403, 403.01, 403.1, 403.11, 403.9, 403.91, 404, 404.01, 404.02, 404.03, 404.1, 404.11, 404.12, 404.13, 404.9, 404.91, 404.92, 404.93, 405.01, 405.09, 405.11, 405.19, 405.91, 405.99, 401, 401.1, 401.9	I11.0, I11.9, I12.0, I12.9, I13.0, I13.10, I13.11, I13.2, I15.0, I15.1, I15.2, I15.8, I15.9, I10
Hypothyroidism	240.9, 243, 244, 244.1, 244.2, 244.3, 244.8, 244.9, 246.1, 246.8	E00.0, E00.1, E00.2, E00.9, E01.0, E01.1, E01.2, E01.8, E02, E03.0, E03.1, E03.2, E03.3, E03.4, E03.5, E03.8, E03.9, E89.0
Iron deficiency anaemia	280	D50.0
Liver disease	70.22, 70.23, 70.32, 70.33, 70.44, 70.54, 70.6, 70.9, 456, 456.1, 456.2, 456.21, 570, 571, 571.1, 571.2, 571.3, 571.4, 571.41, 571.42, 571.49, 571.5, 571.6, 571.8, 571.9, 572.2, 572.3, 572.4, 572.8, 573.3, 573.4, 573.8, 573.9, V42.7	B18.0, B18.1, B18.2, B18.8, B18.9, I85.00, I85.01, I85.10, I85.11, I86.4, K70.0, K70.10, K70.11, K70.2, K70.30, K70.31, K70.40, K70.41, K70.9, K71.10, K71.11, K71.3, K71.4, K71.50, K71.51, K71.7, K72.00, K72.01, K72.10, K72.11, K72.90, K72.91, K73.0, K73.1, K73.2, K73.8, K73.9, K74.0, K74.1, K74.2, K74.3, K74.4, K74.5, K74.60, K74.69, K76.0, K76.2, K76.3, K76.4, K76.5, K76.6, K76.7, K76.81, K76.89, K76.9, Z94.4
Obesity	278, 278.01, 278.02, 278.03	E66.01, E66.09, E66.1, E66.2, E66.3, E66.8, E66.9
Other neurological disorder	331.9, 332, 332.1, 333.4, 333.5, 333.92, 334, 334.1, 334.2, 334.3, 334.4, 334.8, 334.9, 335, 335.1, 335.11, 335.19, 335.2, 335.21, 335.22, 335.23, 335.24, 335.29, 335.8, 335.9, 336.2, 340, 341, 341.1, 341.2, 341.21, 341.22,	G10, G11.0, G11.1, G11.2, G11.3, G11.4, G11.8, G11.9, G12.0, G12.1, G12.20, G12.21, G12.22, G12.23, G12.24, G12.25, G12.29, G12.8, G12.9, G13.0, G13.1, G13.2, G13.8, G20, G21.0, G21.11, G21.19, G21.2, G21.3, G21.4, G21.8, G21.9, G25.4, G25.5, G31.2, G31.81, G31.82, G31.83, G31.84, G31.85, G31.89, G31.9, G32.0, G32.81, G32.89, G35, G36.0, G36.1, G36.8, G36.9, G37.0, G37.1, G37.2,

	341.8, 341.9, 345, 345.01, 345.1, 345.11, 345.2, 345.3, 345.4, 345.41, 345.5, 345.51, 345.6, 345.61, 345.7, 345.71, 345.8, 345.81, 345.9, 345.91, 348.1, 348.3, 348.31, 348.39, 780.31, 780.32, 780.33, 780.39, 784.3	G37.3, G37.4, G37.5, G37.8, G37.9, G40.001, G40.009, G40.011, G40.019, G40.101, G40.109, G40.111, G40.119, G40.201, G40.209, G40.211, G40.219, G40.301, G40.309, G40.311, G40.319, G40.401, G40.409, G40.411, G40.419, G40.501, G40.509, G40.801, G40.802, G40.803, G40.804, G40.811, G40.812, G40.813, G40.814, G40.821, G40.822, G40.823, G40.824, G40.89, G40.901, G40.909, G40.911, G40.919, G40.A01, G40.A09, G40.A11, G40.A19, G40.B01, G40.B09, G40.B11, G40.B19, G93.1, G93.40, G93.41, G93.49, R47.01, R47.02, R56.00, R56.01, R56.1, R56.9
Paralysis	334.1, 342, 342.01, 342.02, 342.1, 342.11, 342.12, 342.8, 342.81, 342.82, 342.9, 342.91, 342.92, 343, 343.1, 343.2, 343.3, 343.4, 343.8, 343.9, 344, 344.01, 344.02, 344.03, 344.04, 344.09, 344.1, 344.2, 344.3, 344.31, 344.32, 344.4, 344.41, 344.42, 344.5, 344.6, 344.61, 344.9	G04.1, G11.4, G80.1, G80.2, G81.00, G81.01, G81.02, G81.03, G81.04, G81.10, G81.11, G81.12, G81.13, G81.14, G81.90, G81.91, G81.92, G81.93, G81.94, G82.20, G82.21, G82.22, G82.50, G82.51, G82.52, G82.53, G82.54, G83.0, G83.10, G83.11, G83.12, G83.13, G83.14, G83.20, G83.21, G83.22, G83.23, G83.24, G83.30, G83.31, G83.32, G83.33, G83.34, G83.4, G83.9
Peptic ulcer disease	531.7, 531.71, 531.9, 531.91, 532.7, 532.71, 532.9, 532.91, 533.7, 533.71, 533.9, 533.91, 534.7, 534.71, 534.9, 534.91	K25.7, K25.9, K26.7, K26.9, K27.7, K27.9, K28.7, K28.9
Psychoses	293.81, 293.82, 293.83, 293.84, 293.89, 295, 295.01, 295.02, 295.03, 295.04, 295.05, 295.1, 295.11, 295.12, 295.13, 295.14, 295.15, 295.2, 295.21, 295.22, 295.23, 295.24, 295.25, 295.3, 295.31, 295.32, 295.33, 295.34, 295.35, 295.4, 295.41, 295.42, 295.43, 295.44, 295.45, 295.5, 295.51, 295.52, 295.53, 295.54, 295.55, 295.6, 295.61, 295.62, 295.63, 295.64, 295.65, 295.7, 295.71, 295.72, 295.73, 295.74, 295.75, 295.8, 295.81, 295.82, 295.83, 295.84, 295.85, 295.9, 295.91, 295.92, 295.93, 295.94, 295.95, 296.04, 296.14, 296.44, 296.54, 297, 297.1, 297.2, 297.3, 297.8, 297.9, 298, 298.1, 298.2, 298.3, 298.4, 298.8, 298.9	F20.0, F20.1, F20.2, F20.3, F20.5, F20.81, F20.89, F20.9, F22, F23, F24, F25.0, F25.1, F25.8, F25.9, F28, F29, F30.2, F31.2, F31.5
Pulmonary circulatory disorders	415, 415.11, 415.12, 415.13, 415.19, 416, 416.1, 416.2, 416.8, 416.9, 417, 417.8, 417.9	I26.01, I26.02, I26.09, I26.90, I26.92, I26.99, I27.0, I27.1, I27.2, I27.20, I27.21, I27.22, I27.23, I27.24, I27.29, I27.81, I27.82, I27.83, I27.89, I27.9, I28.0, I28.8, I28.9
Renal failure	403.01, 403.11, 403.91, 404.02, 404.03, 404.12, 404.13, 404.92, 404.93, 585.1, 585.2, 585.3, 585.4, 585.5, 585.6, 585.9, 586, 588, V42.0, V45.1, V45.11,	I12.0, I13.10, I13.11, N18.1, N18.2, N18.3, N18.4, N18.5, N18.6, N18.9, N19, N25.0, Z49.01, Z49.02, Z94.0, Z99.2

	V45.12, V56.0, V56.1, V56.2, V56.31, V56.32, V56.8	
Rheumatoid arthritis	446, 446.1, 446.2, 446.21, 446.29, 446.3, 446.4, 446.5, 446.6, 446.7, 701, 710, 710.1, 710.2, 710.3, 710.4, 710.8, 710.9, 711.2, 711.21, 711.22, 711.23, 711.24, 711.25, 711.26, 711.27, 711.28, 711.29, 714, 714.1, 714.2, 714.3, 714.31, 714.32, 714.33, 714.4, 714.81, 714.89, 714.9, 719.3, 719.31, 719.32, 719.33, 719.34, 719.35, 719.36, 719.37, 719.38, 719.39, 720, 720.1, 720.2, 720.81, 720.89, 720.9, 725, 728.5, 728.89, 729.3	L94.0, L94.1, L94.3, M05.00, M05.011, M05.012, M05.019, M05.021, M05.022, M05.029, M05.031, M05.032, M05.039, M05.041, M05.042, M05.049, M05.051, M05.052, M05.059, M05.061, M05.062, M05.069, M05.071, M05.072, M05.079, M05.09, M05.10, M05.111, M05.112, M05.119, M05.121, M05.122, M05.129, M05.131, M05.132, M05.139, M05.141, M05.142, M05.149, M05.151, M05.152, M05.159, M05.161, M05.162, M05.169, M05.171, M05.172, M05.179, M05.19, M05.20, M05.211, M05.212, M05.219, M05.221, M05.222, M05.229, M05.231, M05.232, M05.239, M05.241, M05.242, M05.249, M05.251, M05.252, M05.259, M05.261, M05.262, M05.269, M05.271, M05.272, M05.279, M05.29, M05.30, M05.311, M05.312, M05.319, M05.321, M05.322, M05.329, M05.331, M05.332, M05.339, M05.341, M05.342, M05.349, M05.351, M05.352, M05.359, M05.361, M05.362, M05.369, M05.371, M05.372, M05.379, M05.39, M05.40, M05.411, M05.412, M05.419, M05.421, M05.422, M05.429, M05.431, M05.432, M05.439, M05.441, M05.442, M05.449, M05.451, M05.452, M05.459, M05.461, M05.462, M05.469, M05.471, M05.472, M05.479, M05.49, M05.50, M05.511, M05.512, M05.519, M05.521, M05.522, M05.529, M05.531, M05.532, M05.539, M05.541, M05.542, M05.549, M05.551, M05.552, M05.559, M05.561, M05.562, M05.569, M05.571, M05.572, M05.579, M05.59, M05.60, M05.611, M05.612, M05.619, M05.621, M05.622, M05.629, M05.631, M05.632, M05.639, M05.641, M05.642, M05.649, M05.651, M05.652, M05.659, M05.661, M05.662, M05.669, M05.671, M05.672, M05.679, M05.69, M05.70, M05.711, M05.712, M05.719, M05.721, M05.722, M05.729, M05.731, M05.732, M05.739, M05.741, M05.742, M05.749, M05.751, M05.752, M05.759, M05.761, M05.762, M05.769, M05.771, M05.772, M05.779, M05.79, M05.80, M05.811, M05.812, M05.819, M05.821, M05.822, M05.829, M05.831, M05.832, M05.839, M05.841, M05.842, M05.849, M05.851, M05.852, M05.859, M05.861, M05.862, M05.869, M05.871, M05.872, M05.879, M05.89, M05.9, M06.00, M06.011, M06.012, M06.019, M06.021, M06.022, M06.029, M06.031, M06.032, M06.039, M06.041, M06.042, M06.049, M06.051, M06.052, M06.059, M06.061, M06.062, M06.069, M06.071, M06.072, M06.079, M06.08, M06.09, M06.1, M06.20, M06.211, M06.212, M06.219, M06.221, M06.222, M06.229, M06.231, M06.232, M06.239, M06.241, M06.242, M06.249, M06.251, M06.252, M06.259, M06.261, M06.262, M06.269, M06.271, M06.272, M06.279, M06.28, M06.29, M06.30, M06.311, M06.312, M06.319, M06.321, M06.322, M06.329, M06.331, M06.332, M06.339, M06.341, M06.342, M06.349, M06.351, M06.352, M06.359, M06.361, M06.362, M06.369, M06.371, M06.372, M06.379, M06.38, M06.39, M06.4, M06.80, M06.811, M06.812, M06.819, M06.821, M06.822, M06.829, M06.831, M06.832, M06.839,

		M06.841, M06.842, M06.849, M06.851, M06.852, M06.859, M06.861, M06.862, M06.869, M06.871, M06.872, M06.879, M06.88, M06.89, M06.9, M08.00, M08.011, M08.012, M08.019, M08.021, M08.022, M08.029, M08.031, M08.032, M08.039, M08.041, M08.042, M08.049, M08.051, M08.052, M08.059, M08.061, M08.062, M08.069, M08.071, M08.072, M08.079, M08.08, M08.09, M08.1, M08.20, M08.211, M08.212, M08.219, M08.221, M08.222, M08.229, M08.231, M08.232, M08.239, M08.241, M08.242, M08.249, M08.251, M08.252, M08.259, M08.261, M08.262, M08.269, M08.271, M08.272, M08.279, M08.28, M08.29, M08.3, M08.40, M08.411, M08.412, M08.419, M08.421, M08.422, M08.429, M08.431, M08.432, M08.439, M08.441, M08.442, M08.449, M08.451, M08.452, M08.459, M08.461, M08.462, M08.469, M08.471, M08.472, M08.479, M08.48, M08.80, M08.811, M08.812, M08.819, M08.821, M08.822, M08.829, M08.831, M08.832, M08.839, M08.841, M08.842, M08.849, M08.851, M08.852, M08.859, M08.861, M08.862, M08.869, M08.871, M08.872, M08.879, M08.88, M08.89, M08.90, M08.911, M08.912, M08.919, M08.921, M08.922, M08.929, M08.931, M08.932, M08.939, M08.941, M08.942, M08.949, M08.951, M08.952, M08.959, M08.961, M08.962, M08.969, M08.971, M08.972, M08.979, M08.98, M08.99, M12.00, M12.011, M12.012, M12.019, M12.021, M12.022, M12.029, M12.031, M12.032, M12.039, M12.041, M12.042, M12.049, M12.051, M12.052, M12.059, M12.061, M12.062, M12.069, M12.071, M12.072, M12.079, M12.08, M12.09, M12.30, M12.311, M12.312, M12.319, M12.321, M12.322, M12.329, M12.331, M12.332, M12.339, M12.341, M12.342, M12.349, M12.351, M12.352, M12.359, M12.361, M12.362, M12.369, M12.371, M12.372, M12.379, M12.38, M12.39, M30.0, M30.1, M30.2, M30.3, M30.8, M31.0, M31.1, M31.2, M31.30, M31.31, M32.0, M32.10, M32.11, M32.12, M32.13, M32.14, M32.15, M32.19, M32.8, M32.9, M33.00, M33.01, M33.02, M33.03, M33.09, M33.10, M33.11, M33.12, M33.13, M33.19, M33.20, M33.21, M33.22, M33.29, M33.90, M33.91, M33.92, M33.93, M33.99, M34.0, M34.1, M34.2, M34.81, M34.82, M34.83, M34.89, M34.9, M35.00, M35.01, M35.02, M35.03, M35.04, M35.09, M35.1, M35.2, M35.3, M35.4, M35.5, M35.6, M35.7, M35.8, M35.9, M45.0, M45.1, M45.2, M45.3, M45.4, M45.5, M45.6, M45.7, M45.8, M45.9, M46.1, M46.80, M46.81, M46.82, M46.83, M46.84, M46.85, M46.86, M46.87, M46.88, M46.89, M46.90, M46.91, M46.92, M46.93, M46.94, M46.95, M46.96, M46.97, M46.98, M46.99
Valve disease	93.2, 93.21, 93.22, 93.23, 93.24, 394, 394.1, 394.2, 394.9, 395, 395.1, 395.2, 395.9, 396, 396.1, 396.2, 396.3, 396.8, 396.9, 397, 397.1, 397.9, 424, 424.1, 424.2, 424.3, 424.9, 424.91, 424.99,	A52.00, A52.01, A52.02, A52.03, A52.04, A52.05, A52.06, A52.09, I05.0, I05.1, I05.2, I05.8, I05.9, I06.0, I06.1, I06.2, I06.8, I06.9, I07.0, I07.1, I07.2, I07.8, I07.9, I08.0, I08.1, I08.2, I08.3, I08.8, I08.9, I09.1, I09.81, I09.89, I34.0, I34.1, I34.2, I34.8, I34.9, I35.0, I35.1, I35.2, I35.8, I35.9, I36.0, I36.1, I36.2, I36.8, I36.9, I37.0, I37.1, I37.2, I37.8, I37.9,

	746.3, 746.4, 746.5, 746.6, V42.2, V43.3	I38, I39, Q23.0, Q23.1, Q23.2, Q23.3, Z95.2, Z95.3, Z95.4
Weight loss	260, 261, 262, 263, 263.1, 263.2, 263.8, 263.9, 783.21, 783.22, 799.4	E40, E41, E42, E43, E44.0, E44.1, E45, E46, R63.4, R64

**Supplementary Table 3. Other comorbidity diagnosis codes.**

	ICD-9	ICD-10
Critical limb ischaemia	440.22 440.23 440.24 785.4	E10.52 E10.621 E11.52 E11.621 I70.221 I70.222 I70.223 I70.228 I70.229 I70.231 I70.232 I70.233 I70.234 I70.235 I70.238 I70.239 I70.241 I70.242 I70.243 I70.244 I70.245 I70.248 I70.249 I70.261 I70.262 I70.263 I70.268 I70.269 I70.321 I70.322 I70.323 I70.328 I70.329 I70.331 I70.332 I70.333 I70.334 I70.335 I70.338 I70.339 I70.341 I70.342 I70.343 I70.344 I70.345 I70.348 I70.349 I70.361 I70.362 I70.363 I70.368 I70.369 I70.421 I70.422 I70.423 I70.428 I70.429 I70.431 I70.432 I70.433 I70.434 I70.435 I70.438 I70.439 I70.441 I70.442 I70.443 I70.444 I70.445 I70.448 I70.449 I70.461 I70.462 I70.463 I70.468 I70.469 I70.521 I70.522 I70.523 I70.528 I70.529 I70.531 I70.532 I70.533 I70.534 I70.535 I70.538 I70.539 I70.541 I70.542 I70.543 I70.544 I70.545 I70.548 I70.549 I70.561 I70.562 I70.563 I70.568 I70.569 I70.621 I70.622 I70.623 I70.628 I70.629 I70.631 I70.632 I70.633 I70.634 I70.635 I70.638 I70.639 I70.641 I70.642 I70.643 I70.644 I70.645 I70.648 I70.649 I70.661 I70.662 I70.663 I70.668 I70.669 I70.721 I70.722 I70.723 I70.728 I70.729 I70.731 I70.732 I70.733 I70.734 I70.735 I70.738 I70.739 I70.741 I70.742 I70.743 I70.744 I70.745 I70.748 I70.749 I70.761 I70.762 I70.763 I70.768 I70.769
Dementia	290.0 290.20 290.21 290.3 290.40 290.41 290.42 290.43 290.8 290.9 294.10 294.11 294.20 294.21 331.0 331.11 331.19	F01.50 F01.51 F02.80 F02.81 F03.90 F03.91 G30.0 G30.1 G30.8 G30.9 G31.1
History of myocardial infarction	410.00 410.01 410.02 410.10 410.11 410.12 410.20 410.21 410.22 410.30 410.31 410.32 410.40 410.41 410.42 410.50 410.51 410.52 410.60 410.61 410.62 410.70 410.71 410.72 410.80 410.81 410.82 410.90 410.91 410.92 412	I21.01 I21.02 I21.09 I21.11 I21.19 I21.21 I21.29 I21.3 I21.4 I21.9 I21.A1 I21.A9 I25.2
Intermittent claudication	440.21	I70.211 I70.212 I70.213 I70.218 I70.219 I70.311 I70.312 I70.313 I70.318 I70.319 I70.411 I70.412 I70.413 I70.418 I70.419 I70.511 I70.512 I70.513 I70.518 I70.519 I70.611 I70.612 I70.613 I70.618 I70.619 I70.711 I70.712 I70.713 I70.718 I70.719
Prior amputation	V49.70 V49.71 V49.72 V49.73 V49.74 V49.75 V49.76 V49.77	Z89.411 Z89.412 Z89.419 Z89.421 Z89.422 Z89.429 Z89.431 Z89.432 Z89.439 Z89.441 Z89.442 Z89.449 Z89.511 Z89.512 Z89.519 Z89.521 Z89.522 Z89.529 Z89.611 Z89.612 Z89.619 Z89.621 Z89.622 Z89.629
Other peripheral atherosclerosis	440.20, 440.29, 440.30, 440.31, 440.32, 440.9	I70.201, I70.202, I70.203, I70.208, I70.209 I70.291 I70.292 I70.293 I70.298 I70.299 I70.301 I70.302 I70.303 I70.308 I70.309 I70.391 I70.392 I70.393 I70.398 I70.399 I70.401 I70.402 I70.403 I70.408 I70.409 I70.491 I70.492 I70.493

		I70.498 I70.499 I70.501 I70.502 I70.503 I70.508 I70.509 I70.591 I70.592 I70.593 I70.598 I70.599 I70.601 I70.602 I70.603 I70.608 I70.609 I70.691 I70.692 I70.693 I70.698 I70.699 I70.701 I70.702 I70.703 I70.708 I70.709 I70.791 I70.792 I70.793 I70.798 I70.799
Tobacco use	305.1 649.00 649.01 649.02 649.03 649.04 V15.82	F17.200 F17.201 F17.203 F17.208 F17.209 F17.210 F17.211 F17.213 F17.218 F17.219 F17.220 F17.221 F17.223 F17.228 F17.229 F17.290 F17.291 F17.293 F17.298 F17.299 Z72.0 Z87.891

**Supplementary Table 4. Prescription drug codes.**

ACE inhibitor or ARB use NDCs
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**Supplementary Table 5. Weighted baseline characteristics of femoropopliteal artery revascularisation patients, stratified by treatment with drug-coated devices versus non-drug-coated devices.**

Characteristic	Weighted		
	PTA/BMS n=12,373	DCB/DES n=4,412	SMD**
Age, mean (SD)	73.26 (8.75)	73.21 (8.94)	0.006
Female	5,494.6 (44.4)	1,965.9 (44.6)	0.003
Peripheral artery disease*			
Critical limb ischaemia	6,300.3 (50.9)	2,324.5 (52.7)	0.035
Intermittent claudication	4,423.5 (35.8)	1,667.1 (37.8)	0.016
Other peripheral atherosclerosis	744.8 (6.0)	245.4 (5.6)	0.002
Prior amputation	1,375.6 (11.1)	501.8 (11.4)	0.008
History of myocardial infarction	2,300.0 (18.6)	821.3 (18.6)	0.001
Tobacco use	7,230.7 (58.4)	2,559.5 (58.0)	0.009
Diabetes	7,214.9 (58.3)	2,611.3 (59.2)	0.018
Hypertension	11,482.0 (92.8)	4,098.0 (92.9)	0.003
Cardiac arrhythmia	4,549.9 (36.8)	1,623.1 (36.8)	<0.001
Hypothyroidism	1,992.9 (16.1)	712.6 (16.2)	0.001
Renal failure	4,181.5 (33.8)	1,519.0 (34.4)	0.013
Congestive heart failure	3,877.5 (31.3)	1,403.8 (31.8)	0.01
Pulmonary circulatory disorders	885.8 (7.2)	323.8 (7.3)	0.007
Valve disease	2,437.6 (19.7)	871.7 (19.8)	0.001
Obesity	1,742.1 (14.1)	634.2 (14.4)	0.008
Liver disease	619.6 (5.0)	225.1 (5.1)	0.004
Fluid electrolyte disorder	2,874.4 (23.2)	1,056.2 (23.9)	0.017
Rheumatoid arthritis	727.8 (5.9)	266.1 (6.0)	0.006
Psychoses	164.2 (1.3)	60.6 (1.4)	0.004
Depression	1,866.7 (15.1)	671.6 (15.2)	0.004
Chronic pulmonary disorders	4,298.2 (34.7)	1,555.5 (35.3)	0.011
Weight loss	813.5 (6.6)	300.1 (6.8)	0.009

Other neurological disorder	1,128.8 (9.1)	407.7 (9.2)	0.004
Peptic ulcer disease	191.0 (1.5)	68.6 (1.6)	0.001
Paralysis	260.6 (2.1)	97.6 (2.2)	0.007
Coagulopathy	895.0 (7.2)	338.9 (7.7)	0.017
Dementia	863.7 (7.0)	317.1 (7.2)	0.008
Drug abuse	276.0 (2.2)	101.7 (2.3)	0.005
Alcohol abuse	371.4 (3.0)	135.7 (3.1)	0.004
Anaemia	1,384.3 (11.2)	507.0 (11.5)	0.01
Iron deficiency anaemia	324.4 (2.6)	116.6 (2.6)	0.001
AIDS/HIV	36.1 (0.3)	12.8 (0.3)	<0.001
Cancer	985.2 (8.0)	350.9 (8.0)	<0.001
Outpatient procedure	7,787.0 (62.9)	2,677.8 (60.7)	0.046
Adjunctive atherectomy	4,915.1 (39.7)	1,732.4 (39.3)	0.009
Prior cardiovascular medications			
ACE inhibitor or ARB use	4,779.7 (38.6)	1,721.8 (39.0)	0.008
Anticoagulant use	1,503.9 (12.2)	539.6 (12.2)	0.002
Beta-blocker use	5,313.6 (42.9)	1,917.3 (43.5)	0.01
P2Y2 inhibitor use	4,014.9 (32.4)	1,443.2 (32.7)	0.006
Statin use	6,163.4 (49.8)	2,215.5 (50.2)	0.008
Plan type			0.012
HMO	3,348.4 (27.1)	1,171.2 (26.5)	
Other	7,782.8 (62.9)	2,793.1 (63.3)	
PPO	1,241.4 (10.0)	448.0 (10.2)	
US region			0.032
East North Central	2,057.5 (16.6)	738.5 (16.7)	
East South Central	578.8 (4.7)	210.3 (4.8)	
Mid Atlantic	1,262.8 (10.2)	453.5 (10.3)	
Mountain	758.2 (6.1)	264.7 (6.0)	
New England	440.0 (3.6)	161.4 (3.7)	
Pacific	847.2 (6.8)	311.7 (7.1)	
South Atlantic	3,340.7 (27.0)	1,220.2 (27.7)	
West North Central	1,234.3 (10.0)	405.8 (9.2)	

West South Central	1,853.1 (15.0)	646.0 (14.6)
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\* All categories of peripheral artery disease diagnosis (intermittent claudication, critical limb ischaemia, or other peripheral atherosclerosis) present in claims data for a patient during the lookback period were included. Patients were allowed to have more than one diagnosis if they received a claim for more than one peripheral artery disease condition during the lookback period.

\*\* A standardised mean difference (SMD) of >0.10 was considered significant and are bolded in the Table.

ARB: angiotensin II receptor blocker; BMS: bare metal stent; DCB: drug-coated balloon; DES: drug-eluting stent; HMO: Health Maintenance Organisation; PPO: Preferred Provider Organisation; PTA: percutaneous transluminal angioplasty; SMD: standardised mean difference

**Supplementary Table 6. Repeat revascularisation rates and drug-coated device exposure.**

First procedure	Subsequent procedure			
	Drug-coated balloon	Drug-eluting stent	Uncoated PTA*	Bare metal stent
<b>Drug-coated balloon</b> (N=3,600)	504 (14.0%)	50 (1.4%)	420 (11.7%)	329 (9.1%)
<b>Drug-eluting stent</b> (N=827)	60 (7.3%)	35 (4.2%)	81 (9.8%)	96 (11.6%)
<b>Uncoated PTA</b> (N=5,840)	262 (4.5%)	70 (1.2%)	1,015 (17.4%)	552 (9.5%)
<b>Bare metal stent</b> (N=6,529)	282 (4.3%)	109 (1.7%)	701 (10.7%)	1,002 (15.3%)

PTA: percutaneous transluminal angioplasty