

Appendix B. Supplementary tables

Table B1. List of selected medications

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**Table B3. Independent associations of patient-level factors with carotid stenosis severity
from univariable ordinal logistic regression models**

Table B4. Pairwise comparisons of carotid stenosis severity categories

Table B1. List of selected medications

Drug group	Drug
Statins	Atorvastatin
	Fluvastatin
	Lovastatin
	Pitavastatin
	Pravastatin
	Rosuvastatin
	Simvastatin
Other antilipemics	Ezetimibe
	Alirocumab
	Evolocumab
	Bempedoic Acid
	Evinacumab
	Lomitapide
	Fenofibrate
	Gemfibrozil
	Bezafibrate
	Cholestyramine
	Colesevelam
	Colestipol
	Niacin
P2Y12 inhibitors	Clopidogrel
	Prasugrel
	Ticagrelor
	Cangrelor
Other antiplatelets	Abciximab
	Eptifibatide
	Tirofiban
	Dipyridamole
	Cilostazol
	Ticlopidine
Anticoagulants	Heparin
	Warfarin
	Rivaroxaban
	Dabigatran
	Apixaban
	Edoxaban
	Enoxaparin
	Fondaparinux
Acetylsalicylic Acid	Aspirin

Table B2. Summary of missing data and multiple imputation

Variable	Observations	Number of missing values	% missing	Mean	SD	Min	Max
Body mass index							
Before	289,751	766	0.26%	0.0	1.0	-3.9	36.6
After	290,517			0.0	1.0	-3.9	36.6
Systolic blood pressure							
Before	290,134	383	0.13%	0.0	1.0	-5.9	48.3
After	290,517			0.0	1.0	-5.9	48.3
Diastolic blood pressure							
Before	290,081	436	0.15%	0.0	1.0	-6.4	10.7
After	290,517			0.0	1.0	-6.4	10.7
HbA1c							
Before	229,427	61,090	21.03%	0.0	1.0	-3.8	54.0
After	290,517			-0.1	1.0	-3.8	54.0
LDL-c							
Before	282,645	7,872	2.71%	0.0	1.0	-2.3	24.4
After	290,517			0.0	1.0	-2.3	24.4
HDL-c							
Before	283,349	7,168	2.47%	0.0	1.0	-1.8	28.2
After	290,517			0.0	1.0	-1.8	28.2
Triglyceride							
Before	283,509	7,008	2.41%	0.0	1.0	-1.1	72.9
After	290,517			0.0	1.0	-1.1	72.9
Creatinine							
Before	285,942	4,575	1.57%	0.0	1.0	-0.2	127.3
After	290,517			0.0	1.0	-0.2	127.3

Abbreviations: HbA1c, hemoglobin A1c; LDL-c, low-density lipoprotein cholesterol; HDL-c, high-density lipoprotein cholesterol

Table B3. Independent associations of patient-level factors with carotid stenosis severity from univariable ordinal logistic regression models

	OR	95% CI		p
Age at first duplex	1.03	1.03	1.03	<0.001
Sex				
Male (Ref.)				
Female	0.69	0.66	0.73	<0.001
Race				
White (Ref.)				
Black	0.72	0.69	0.75	<0.001
Other	0.68	0.63	0.74	<0.001
Unknown	1.02	0.98	1.06	0.265
Ethnicity				
Not Hispanic (Ref.)				
Hispanic or Latino	0.62	0.59	0.66	<0.001
Unknown	1.30	1.24	1.36	<0.001
Healthcare utilization	1.00	1.00	1.00	<0.001
Comorbidities				
Hypertension	1.97	1.88	2.06	<0.001
Coronary heart disease	1.66	1.63	1.69	<0.001
Type 2 diabetes	1.12	1.10	1.15	<0.001
Laboratory measures				
HbA1c	1.05	1.04	1.06	<0.001
LDL-c	1.04	1.03	1.05	<0.001
HDL-c	0.99	0.98	1.00	0.124
Triglyceride	1.05	1.04	1.06	<0.001
Creatinine	1.02	1.01	1.03	<0.001
Vitals				
Body mass index	0.84	0.84	0.85	<0.001
Systolic blood pressure	1.18	1.17	1.19	<0.001
Diastolic blood pressure	0.83	0.82	0.83	<0.001
Smoking status				
Never (Ref.)				
Current	1.60	1.55	1.66	<0.001
Former	1.47	1.42	1.51	<0.001
Unknown	1.59	1.50	1.68	<0.001

Abbreviations: HbA1c, hemoglobin A1c; LDL-c, low-density lipoprotein cholesterol; HDL-c, high-density lipoprotein cholesterol

Table B4. Pairwise comparisons of carotid stenosis severity categories

	≥50% (vs. <50%/Normal)				50-69% (vs. <50%/Normal)				≥70 (vs. <50%/Normal)				≥70% (vs. 50-69%)			
	OR	95% CI		p	OR	95% CI		p	OR	95% CI		p	OR	95% CI		p
Age at first duplex	1.02	1.02	1.02	<0.001	1.02	1.02	1.02	<0.001	1.03	1.02	1.03	<0.001	1.01	1.00	1.01	<0.001
Sex																
Male (Ref.)																
Female	1.03	0.97	1.09	0.332	1.08	1.02	1.15	0.011	0.82	0.73	0.93	0.002	0.77	0.67	0.88	<0.001
Race																
White (Ref.)																
Black	0.83	0.80	0.86	<0.001	0.78	0.75	0.81	<0.001	0.99	0.93	1.06	0.787	1.33	1.23	1.43	<0.001
Other	0.73	0.68	0.79	<0.001	0.72	0.66	0.79	<0.001	0.77	0.66	0.90	0.001	1.06	0.89	1.26	0.516
Unknown	0.90	0.86	0.94	<0.001	0.88	0.84	0.93	<0.001	0.95	0.87	1.03	0.209	1.07	0.97	1.17	0.158
Ethnicity																
Not Hispanic (Ref.)																
Hispanic or Latino	0.65	0.62	0.69	<0.001	0.66	0.62	0.71	<0.001	0.61	0.54	0.69	<0.001	0.92	0.81	1.06	0.237
Unknown	1.19	1.13	1.26	<0.001	1.19	1.12	1.27	<0.001	1.21	1.09	1.35	<0.001	1.03	0.92	1.16	0.576
Healthcare utilization	1.00	1.00	1.00	<0.001	1.00	1.00	1.00	<0.001	1.00	1.00	1.00	<0.001	1.00	1.00	1.00	0.008
Comorbidities																
Hypertension	1.44	1.37	1.51	<0.001	1.39	1.32	1.47	<0.001	1.68	1.52	1.87	<0.001	1.18	1.05	1.32	0.005
Coronary heart disease	1.44	1.41	1.47	<0.001	1.41	1.38	1.45	<0.001	1.51	1.45	1.58	<0.001	1.08	1.03	1.13	0.002
Type 2 diabetes	1.07	1.05	1.10	<0.001	1.08	1.06	1.11	<0.001	1.05	1.00	1.09	0.045	0.96	0.91	1.01	0.110
Laboratory measures																
HbA1c	1.02	1.01	1.03	0.001	1.02	1.00	1.03	0.011	1.03	1.01	1.05	0.001	1.03	1.00	1.06	0.055
LDL-c	1.04	1.03	1.05	<0.001	1.04	1.02	1.05	<0.001	1.07	1.05	1.09	<0.001	1.03	1.01	1.06	0.002
HDL-c	1.01	1.00	1.02	0.128	0.98	0.97	0.99	0.005	1.08	1.06	1.10	<0.001	1.09	1.07	1.11	<0.001
Triglyceride	1.06	1.05	1.07	<0.001	1.05	1.04	1.06	<0.001	1.07	1.05	1.08	<0.001	1.04	1.02	1.06	<0.001
Creatinine	1.02	1.01	1.03	0.001	1.01	1.00	1.02	0.008	1.02	1.00	1.04	0.016	1.00	0.98	1.02	0.731
Vitals																
Body mass index	0.86	0.85	0.87	<0.001	0.88	0.86	0.89	<0.001	0.82	0.80	0.84	<0.001	0.94	0.92	0.96	0.000
Systolic blood pressure	1.33	1.31	1.34	<0.001	1.29	1.27	1.30	<0.001	1.46	1.43	1.49	<0.001	1.13	1.10	1.16	<0.001
Diastolic blood pressure	0.76	0.75	0.77	<0.001	0.76	0.75	0.78	<0.001	0.73	0.72	0.75	<0.001	0.96	0.94	0.99	0.003
Smoking status																
Never (Ref.)																
Current	1.66	1.60	1.72	<0.001	1.51	1.45	1.57	<0.001	2.37	2.20	2.56	<0.001	1.55	1.43	1.69	<0.001
Former	1.33	1.29	1.38	<0.001	1.25	1.21	1.29	<0.001	1.75	1.63	1.87	<0.001	1.38	1.28	1.50	<0.001
Unknown	1.37	1.29	1.45	<0.001	1.33	1.24	1.41	<0.001	1.58	1.40	1.79	<0.001	1.19	1.04	1.36	0.011

Abbreviations: HbA1c, hemoglobin A1c; LDL-c, low-density lipoprotein cholesterol; HDL-c, high-density lipoprotein cholesterol