Supplementary material

eTable 1. Incidence rate of VTE and association of ALS with VTE, after exclusion of ALS cases with edaravone prescription at any point in the study period.

	ALS cases	Controls
All	4,145	20,725
Patients with a VTE during follow-up	131 (3.2%)	244 (1.2%)
Median time to VTE (months)	10.0	17.4
Incidence rate of VTE per 1,000 person-years (95% CI)	20.0 (16.7,23.7)	6.1 (5.3,6.9)
Hazard ratio (95% CI)	3.2 (2.6,4.0)	
Men	2,363	11,815
Patients with a VTE during follow-up	84 (3.5%)	133 (1.1%)
Median time to VTE (months)	10.8	15.6
Incidence rate of VTE per 1,000 person-years (95% CI)	21.6 (17.3,26.8)	6.0 (5.1,7.2)
Hazard ratio (95% CI)	3.5 (2.7,4.6)	
Women	1,782	8,910
Patients with a VTE during follow-up	47 (2.6%)	111 (1.2%)
Median time to VTE (months)	9.7	19.1
Incidence rate of VTE per 1,000 person-years (95% CI)	17.6 (13.0,23.5)	6.1 (5.0,7.3)
Hazard ratio (95% CI)	2.9 (2.0,4.0)	
Age at index date		
<50 years	461	2,305
Patients with a VTE during follow-up	16 (3.5%)	6 (0.3%)
Median time to VTE (months)	13.0	8.7
Incidence rate of VTE per 1,000 person-years (95% CI)	16.7 (9.5, 27.1)	1.6 (0.6, 3.5)
Hazard ratio (95% CI)	10.7 (4.2, 27.4)	
50–59 years	730	3,650
Patients with a VTE during follow-up	32 (4.4%)	27 (0.7%)
Median time to VTE (months)	10.6	15.2
Incidence rate of VTE per 1,000 person-years (95% CI)	26.5 (18.2,37.5)	4.6 (3.0,6.7)
Hazard ratio (95% CI)	5.7 (3.4,9.5)	
60–69 years	1,239	6,195
Patients with a VTE during follow-up	39 (3.1%)	56 (0.9%)
Median time to VTE (months)	9.9	13.4
Incidence rate of VTE per 1,000 person-years (95% CI)	21.3 (15.1,29.1)	4.9 (3.7,6.3)
Hazard ratio (95% CI)	4.1 (2.7,6.3)	
≥70 years	1,715	8,575
•	44 (2.6%)	155 (1.8%)
Patients with a VTE during follow-up		. ,
Patients with a VTE during follow-up Median time to VTE (months)	9.3	19.6
Patients with a VTE during follow-up Median time to VTE (months) Incidence rate of VTE per 1,000 person-years (95% CI)	· · ·	19.6 8.1 (6.9,9.5)

eTable 2 ICD codes for motor neuron disease

VTE categories	ICD-9	ICD-10
Motor neuron disease, unspecified		G12.20
Amyotrophic lateral sclerosis	335.20	G12.21
Progressive muscular atrophy	335.21	G12.22
Progressive bulbar palsy	335.22	G12.23
Pseudobulbar palsy	335.23	G12.24
Primary lateral sclerosis	335.24	G12.25
Other motor neuron disease	335.29	G12.29

VTE = venous thromboembolism.

eTable 3 ICD-9 and ICD-10 codes for VTE

VTE categories	ICD-9	ICD-10	Category
Phlebitis and thrombophlebitis	451.x excluding 451.0 and 451.82	180.1x, 180.2x, 180.3, 180.8, 180.9	DVT other
Budd-Chiari syndrome	453.0	182.0	DVT other
Thrombophlebitis migrans	453.1	182.1	DVT other
Embolism and thrombosis of vena cava and other thoracic veins	453.2	182.2x	DVT other
Embolism and thrombosis of renal vein	453.3	182.3	DVT
Embolism and thrombosis of deep veins of lower extremity	453.4x	182.4x	DVT lower extremity
Chronic embolism and thrombosis of deep veins of lower extremity	453.5x	182.5x	DVT lower extremity
Embolism and thrombosis of veins of upper extremity (including axillary, subclavian, and internal jugular vein)	453.7x excluding 453.71; 453.8x excluding 453.81	182.6x excluding 182.61x; 182.Ax, 182.Bx, 182.Cx, 182.70x, 182.72x	DVT upper extremity
Embolism and thrombosis of other specified veins/unspecified veins	453.9	182.89x; 182.9x	DVT other
Pulmonary embolism	415.x excluding 415.0	I26.x	PE

DVT = deep vein thrombosis; PE = pulmonary embolism; VTE = venous thromboembolism.

ICD codes

Interruption of vena cava

- 02HV0DZ Insertion of Intraluminal Device into Superior Vena Cava, Open Approach 02HV3DZ Insertion of Intraluminal Device into Superior Vena Cava, Percutaneous Approach 02HV3DZ Insertion of Intraluminal Device into Superior Vena Cava, Percutaneous Approach 02LV0CZ Occlusion of Superior Vena Cava with Extraluminal Device, Open Approach 02LV0DZ Occlusion of Superior Vena Cava with Intraluminal Device, Open Approach 02LV0ZZ Occlusion of Superior Vena Cava, Open Approach 02LV3CZ Occlusion of Superior Vena Cava with Extraluminal Device, Percutaneous Approach 02LV3DZ Occlusion of Superior Vena Cava with Intraluminal Device, Percutaneous Approach 02LV3ZZ Occlusion of Superior Vena Cava, Percutaneous Approach 021V4CZ Occlusion of Superior Vena Cava with Extraluminal Device, Percutaneous Endoscopic Approach 02LV4DZ Occlusion of Superior Vena Cava with Intraluminal Device, Percutaneous Endoscopic Approach
- 02LV4ZZ Occlusion of Superior Vena Cava, Percutaneous Endoscopic Approach
- 02VV0CZ Restriction of Superior Vena Cava with Extraluminal Device, Open Approach
- 02VV0DZ Restriction of Superior Vena Cava with Intraluminal Device, Open Approach
- 02VV0ZZ Restriction of Superior Vena Cava, Open Approach
- 02VV3CZ Restriction of Superior Vena Cava with Extraluminal Device, Percutaneous Approach
- 02VV3DZ Restriction of Superior Vena Cava with Intraluminal Device, Percutaneous Approach
- 02VV3ZZ Restriction of Superior Vena Cava, Percutaneous Approach
- 02VV4CZ Restriction of Superior Vena Cava with Extraluminal Device, Percutaneous Endoscopic Approach
- 02VV4DZ Restriction of Superior Vena Cava with Intraluminal Device, Percutaneous Endoscopic Approach
- 02VV4ZZ Restriction of Superior Vena Cava, Percutaneous Endoscopic Approach
- 06H00DZ Insertion of Intraluminal Device into Inferior Vena Cava, Open Approach
- 06H03DZ Insertion of Intraluminal Device into Inferior Vena Cava, Percutaneous Approach
- 06H04DZ Insertion of Intraluminal Device into Inferior Vena Cava, Percutaneous Endoscopic Approach
- 06L00CZ Occlusion of Inferior Vena Cava with Extraluminal Device, Open Approach
- 06L00DZ Occlusion of Inferior Vena Cava with Intraluminal Device, Open Approach
- 06L00ZZ Occlusion of Inferior Vena Cava, Open Approach
- 06L03CZ Occlusion of Inferior Vena Cava with Extraluminal Device, Percutaneous Approach
- 06L03DZ Occlusion of Inferior Vena Cava with Intraluminal Device, Percutaneous Approach
- 06L03ZZ Occlusion of Inferior Vena Cava, Percutaneous Approach
- 06L04CZ Occlusion of Inferior Vena Cava with Extraluminal Device, Percutaneous Endoscopic Approach
- 06L04DZ Occlusion of Inferior Vena Cava with Intraluminal Device, Percutaneous Endoscopic Approach

- 06L04ZZ Occlusion of Inferior Vena Cava, Percutaneous Endoscopic Approach
- 06V00CZ Restriction of Inferior Vena Cava with Extraluminal Device, Open Approach
- 06V00DZ Restriction of Inferior Vena Cava with Intraluminal Device, Open Approach
- 06V00ZZ Restriction of Inferior Vena Cava, Open Approach
- 06V03CZ Restriction of Inferior Vena Cava with Extraluminal Device, Percutaneous Approach
- 06V03DZ Restriction of Inferior Vena Cava with Intraluminal Device, Percutaneous Approach
- 06V03ZZ Restriction of Inferior Vena Cava, Percutaneous Approach
- 06V04CZ Restriction of Inferior Vena Cava with Extraluminal Device, Percutaneous Endoscopic Approach
- 06V04DZ Restriction of Inferior Vena Cava with Intraluminal Device, Percutaneous Endoscopic Approach
- 06V04ZZ Restriction of Inferior Vena Cava, Percutaneous Endoscopic Approach

Thrombolytic agent

- 3E03017 Introduction of Other Thrombolytic into Peripheral Vein, Open Approach
- 3E03317 Introduction of Other Thrombolytic into Peripheral Vein, Percutaneous Approach
- 3E04017 Introduction of Other Thrombolytic into Central Vein, Open Approach
- 3E04317 Introduction of Other Thrombolytic into Central Vein, Percutaneous Approach
- 3E05317 Introduction of Other Thrombolytic into Peripheral Artery, Percutaneous Approach
- 3E06317 Introduction of Other Thrombolytic into Central Artery, Percutaneous Approach
- 3E08317 Introduction of Other Thrombolytic into Heart, Percutaneous Approach

Platelet inhibitor

- 3E030PZ Introduction of Platelet Inhibitor into Peripheral Vein, Open Approach
- 3E033PZ Introduction of Platelet Inhibitor into Peripheral Vein, Percutaneous Approach
- 3E040PZ Introduction of Platelet Inhibitor into Central Vein, Open Approach
- 3E043PZ Introduction of Platelet Inhibitor into Central Vein, Percutaneous Approach
- 3E050PZ Introduction of Platelet Inhibitor into Peripheral Artery, Open Approach
- 3E053PZ Introduction of Platelet Inhibitor into Peripheral Artery, Percutaneous Approach
- 3E060PZ Introduction of Platelet Inhibitor into Central Artery, Open Approach
- 3E063PZ Introduction of Platelet Inhibitor into Central Artery, Percutaneous Approach

HCPCS codes

C1880 Vena cava filter C1757 Catheter, thrombectomy/embolectomy

CPT codes

- 37184 PRIM ART M-THRMBC 1ST VSL
- 37185 PRIM ART M-THRMBC SBSQ VSL
- 37186 SEC ART THROMBECTOMY ADD-ON

- 37187 VENOUS MECH THROMBECTOMY
- 37188 VENOUS M-THROMBECTOMY ADD-ON
- 37191 INS ENDOVAS VENA CAVA FILTR
- 37192 REDO ENDOVAS VENA CAVA FILTR
- 37193 REM ENDOVAS VENA CAVA FILTER
- 37211 THROMBOLYTIC ART THERAPY
- 37212 THROMBOLYTIC VENOUS THERAPY
- 37213 THROMBLYTIC ART/VEN THERAPY

VTE = venous thromboembolism.

eTable 5 Incidence of VTE using an expanded definition of VTE: two or more VTE diagnostic codes where one or more of the diagnostic codes was the primary diagnosis at discharge

All 4,205 21,025 Patients with a VTE during follow-up 141 (3.4%) 257 (1.2%) Median time to VTE (months) 9.9 17.7 Incidence rate of VTE per 1,000 person-years (95% Cl) 21.3 (17.9, 25.1) 6.3 (5.6, 7.1) Unadjusted hazard ratio (95% Cl) 3.3 (2.7, 4.1) 11,955 Patients with a VTE during follow-up 90 (3.8%) 137 (1.1%) Mein 2,391 11,955 Patients with a VTE (months) 10.2 15.8 Incidence rate of VTE per 1,000 person-years (95% Cl) 23.0 (18.5, 28.3) 6.2 (5.2, 7.3) Unadjusted hazard ratio (95% Cl) 3.7 (2.8, 4.8) 9,070 Patients with a VTE during follow-up 51 (2.8%) 120 (1.3%) Median time to VTE (months) 8.8 19.8 Incidence rate of VTE per 1,000 person-years (95% Cl) 18.9 (14.0, 24.8) 6.5 (5.4, 7.8) Unadjusted hazard ratio (95% Cl) 2.9 (2.1, 4.0) 6.0 (0.3%) Age at index date 2,305 8.7 Age 50 years 461 2,305 Patients with a VTE during follow-up 17 (3.7%) 6 (0.3%) Median time to VTE (months) 12.2 8.7 </th <th></th> <th>ALS cases</th> <th>Controls</th>		ALS cases	Controls
Patients with a VTE during follow-up 141 (3.4%) 257 (1.2%) Median time to VTE (months) 9.9 17.7 Incidence rate of VTE per 1,000 person-years (95% CI) 21.3 (17.9, 25.1) 6.3 (5.6, 7.1) Unadjusted hazard ratio (95% CI) 3.3 (2.7, 4.1) 11,955 Patients with a VTE during follow-up 90 (3.8%) 137 (1.1%) Men 2,391 11,955 Patients with a VTE during follow-up 90 (3.8%) 137 (1.1%) Median time to VTE (months) 10.2 15.8 Incidence rate of VTE per 1,000 person-years (95% CI) 23.0 (18.5, 28.3) 6.2 (5.2, 7.3) Unadjusted hazard ratio (95% CI) 3.7 (2.8, 4.8) 9,070 Patients with a VTE during follow-up 51 (2.8%) 120 (1.3%) Median time to VTE (months) 8.8 19.8 Incidence rate of VTE per 1,000 person-years (95% CI) 18.9 (14.0, 24.8) 6.5 (5.4, 7.8) Unadjusted hazard ratio (95% CI) 2.9 (2.1, 4.0) 8.7 Age at index date 461 2,305 Age at index date 2.2 8.7 Incidence rate of VTE per 1,000 person-years (95% CI) 17.7 (10.3, 28.4) 1.6 (0.6, 3.5) Un	Incidence of VTE		
Median time to VTE (months) 9.9 17.7 Incidence rate of VTE per 1,000 person-years (95% CI) 21.3 (17.9, 25.1) 6.3 (5.6, 7.1) Unadjusted hazard ratio (95% CI) 3.3 (2.7, 4.1) 11,955 Patients with a VTE during follow-up 90 (3.8%) 137 (1.1%) Men 2,391 11,955 Patients with a VTE during follow-up 90 (3.8%) 137 (1.1%) Median time to VTE (months) 10.2 15.8 Incidence rate of VTE per 1,000 person-years (95% CI) 23.0 (18.5, 28.3) 6.2 (5.2, 7.3) Unadjusted hazard ratio (95% CI) 3.7 (2.8, 4.8) 9,070 Patients with a VTE during follow-up 51 (2.8%) 120 (1.3%) Median time to VTE (months) 8.8 19.8 Incidence rate of VTE per 1,000 person-years (95% CI) 18.9 (14.0, 24.8) 6.5 (5.4, 7.8) Unadjusted hazard ratio (95% CI) 2.9 (2.1, 4.0) 60.3%) Age at index date 461 2,305 Patients with a VTE during follow-up 17 (3.7%) 6 (0.3%) Median time to VTE (months) 12.2 8.7 Incidence rate of VTE per 1,000 person-years (95% CI) 17.7 (10.3, 28.4) 1.6 (0.6, 3.5)	All	4,205	21,025
Incidence rate of VTE per 1,000 person-years (95% CI) 21.3 (17.9, 25.1) 6.3 (5.6, 7.1) Unadjusted hazard ratio (95% CI) 3.3 (2.7, 4.1) 11,955 Patients with a VTE during follow-up 90 (3.8%) 137 (1.1%) Median time to VTE (months) 10.2 15.8 Incidence rate of VTE per 1,000 person-years (95% CI) 23.0 (18.5, 28.3) 6.2 (5.2, 7.3) Unadjusted hazard ratio (95% CI) 3.7 (2.8, 4.8) 9,070 Patients with a VTE during follow-up 51 (2.8%) 120 (1.3%) Median time to VTE (months) 8.8 19.8 Incidence rate of VTE per 1,000 person-years (95% CI) 18.9 (14.0, 24.8) 6.5 (5.4, 7.8) Unadjusted hazard ratio (95% CI) 2.9 (2.1, 4.0) 6.0 (0.3%) Age at index date Age <50 years	Patients with a VTE during follow-up	141 (3.4%)	257 (1.2%)
Unadjusted hazard ratio (95% CI) 3.3 (2.7, 4.1) Men 2,391 11,955 Patients with a VTE during follow-up 90 (3.8%) 137 (1.1%) Median time to VTE (months) 10.2 15.8 Incidence rate of VTE per 1,000 person-years (95% CI) 23.0 (18.5, 28.3) 6.2 (5.2, 7.3) Unadjusted hazard ratio (95% CI) 3.7 (2.8, 4.8) 9,070 Patients with a VTE during follow-up 51 (2.8%) 120 (1.3%) Median time to VTE (months) 8.8 19.8 Incidence rate of VTE per 1,000 person-years (95% CI) 18.9 (14.0, 24.8) 6.5 (5.4, 7.8) Unadjusted hazard ratio (95% CI) 2.9 (2.1, 4.0) 6.0 (3%) Age at index date Age <50 years	Median time to VTE (months)	9.9	17.7
Men 2,391 11,955 Patients with a VTE during follow-up 90 (3.8%) 137 (1.1%) Median time to VTE (months) 10.2 15.8 Incidence rate of VTE per 1,000 person-years (95% CI) 23.0 (18.5, 28.3) 6.2 (5.2, 7.3) Unadjusted hazard ratio (95% CI) 3.7 (2.8, 4.8) 9,070 Patients with a VTE during follow-up 51 (2.8%) 120 (1.3%) Median time to VTE (months) 8.8 19.8 Incidence rate of VTE per 1,000 person-years (95% CI) 18.9 (14.0, 24.8) 6.5 (5.4, 7.8) Unadjusted hazard ratio (95% CI) 2.9 (2.1, 4.0) 51 Age at index date 461 2,305 Age <50 years	Incidence rate of VTE per 1,000 person-years (95% CI)	21.3 (17.9, 25.1)	6.3 (5.6, 7.1)
Patients with a VTE during follow-up 90 (3.8%) 137 (1.1%) Median time to VTE (months) 10.2 15.8 Incidence rate of VTE per 1,000 person-years (95% CI) 23.0 (18.5, 28.3) 6.2 (5.2, 7.3) Unadjusted hazard ratio (95% CI) 3.7 (2.8, 4.8) 6.2 (5.2, 7.3) Women 1,814 9,070 Patients with a VTE during follow-up 51 (2.8%) 120 (1.3%) Median time to VTE (months) 8.8 19.8 Incidence rate of VTE per 1,000 person-years (95% CI) 18.9 (14.0, 24.8) 6.5 (5.4, 7.8) Unadjusted hazard ratio (95% CI) 2.9 (2.1, 4.0) 6.0 (3%) Age at index date 461 2,305 Patients with a VTE during follow-up 17 (3.7%) 6 (0.3%) Median time to VTE (months) 12.2 8.7 Incidence rate of VTE per 1,000 person-years (95% CI) 17.7 (10.3, 28.4) 1.6 (0.6, 3.5) Unadjusted hazard ratio (95% CI) 11.4 (4.5, 28.8) 1.6 (0.6, 3.5) Age 50–59 years 732 3,660 Patients with a VTE during follow-up 32 (4.4%) 28 (0.8%) Median time to VTE (months) 10.6 14.5 Incidence rate of VTE per 1,00	Unadjusted hazard ratio (95% CI)	3.3 (2.7, 4.1)	
Median time to VTE (months) 10.2 15.8 Incidence rate of VTE per 1,000 person-years (95% CI) 23.0 (18.5, 28.3) 6.2 (5.2, 7.3) Unadjusted hazard ratio (95% CI) 3.7 (2.8, 4.8) 9,070 Patients with a VTE during follow-up 51 (2.8%) 120 (1.3%) Median time to VTE (months) 8.8 19.8 Incidence rate of VTE per 1,000 person-years (95% CI) 18.9 (14.0, 24.8) 6.5 (5.4, 7.8) Unadjusted hazard ratio (95% CI) 2.9 (2.1, 4.0) 6.5 (5.4, 7.8) Age at index date 2,305 8.7 Age 450 years 461 2,305 Patients with a VTE during follow-up 17 (3.7%) 6 (0.3%) Median time to VTE (months) 12.2 8.7 Incidence rate of VTE per 1,000 person-years (95% CI) 17.7 (10.3, 28.4) 1.6 (0.6, 3.5) Unadjusted hazard ratio (95% CI) 11.4 (4.5, 28.8) 3.660 Patients with a VTE during follow-up 32 (4.4%) 28 (0.8%) Median time to VTE (months) 10.6 14.5 Incidence rate of VTE per 1,000 person-years (95% CI) 26.5 (18.1, 37.5) 4.7 (3.1, 6.8)	Men	2,391	11,955
Incidence rate of VTE per 1,000 person-years (95% Cl) 23.0 (18.5, 28.3) 6.2 (5.2, 7.3) Unadjusted hazard ratio (95% Cl) 3.7 (2.8, 4.8) 9,070 Patients with a VTE during follow-up 51 (2.8%) 120 (1.3%) Median time to VTE (months) 8.8 19.8 Incidence rate of VTE per 1,000 person-years (95% Cl) 18.9 (14.0, 24.8) 6.5 (5.4, 7.8) Unadjusted hazard ratio (95% Cl) 2.9 (2.1, 4.0) 6.2 (0.3%) Age at index date 461 2,305 Patients with a VTE during follow-up 17 (3.7%) 6 (0.3%) Median time to VTE (months) 12.2 8.7 Incidence rate of VTE per 1,000 person-years (95% Cl) 17.7 (10.3, 28.4) 1.6 (0.6, 3.5) Unadjusted hazard ratio (95% Cl) 17.7 (10.3, 28.4) 1.6 (0.6, 3.5) Unadjusted hazard ratio (95% Cl) 11.4 (4.5, 28.8) 3.660 Patients with a VTE during follow-up 32 (4.4%) 28 (0.8%) Median time to VTE (months) 10.6 14.5 Incidence rate of VTE per 1,000 person-years (95% Cl) 26.5 (18.1, 37.5) 4.7 (3.1, 6.8)	Patients with a VTE during follow-up	90 (3.8%)	137 (1.1%)
Unadjusted hazard ratio (95% Cl) 3.7 (2.8, 4.8) Women 1,814 9,070 Patients with a VTE during follow-up 51 (2.8%) 120 (1.3%) Median time to VTE (months) 8.8 19.8 Incidence rate of VTE per 1,000 person-years (95% Cl) 18.9 (14.0, 24.8) 6.5 (5.4, 7.8) Unadjusted hazard ratio (95% Cl) 2.9 (2.1, 4.0) 6.5 (5.4, 7.8) Age at index date 2,305 732 8.7 Incidence rate of VTE during follow-up 17.7 (10.3, 28.4) 1.6 (0.6, 3.5) Median time to VTE (months) 12.2 8.7 Incidence rate of VTE per 1,000 person-years (95% Cl) 17.7 (10.3, 28.4) 1.6 (0.6, 3.5) Unadjusted hazard ratio (95% Cl) 11.4 (4.5, 28.8) 3.660 Patients with a VTE during follow-up 32 (4.4%) 28 (0.8%) Median time to VTE (months) 10.6 14.5 Incidence rate of VTE per 1,000 person-years (95% Cl) 26.5 (18.1, 37.5) 4.7 (3.1, 6.8)	Median time to VTE (months)	10.2	15.8
Women 1,814 9,070 Patients with a VTE during follow-up 51 (2.8%) 120 (1.3%) Median time to VTE (months) 8.8 19.8 Incidence rate of VTE per 1,000 person-years (95% CI) 18.9 (14.0, 24.8) 6.5 (5.4, 7.8) Unadjusted hazard ratio (95% CI) 2.9 (2.1, 4.0) 6.5 (5.4, 7.8) Age at index date 461 2,305 Patients with a VTE during follow-up 17 (3.7%) 6 (0.3%) Median time to VTE (months) 12.2 8.7 Incidence rate of VTE per 1,000 person-years (95% CI) 17.7 (10.3, 28.4) 1.6 (0.6, 3.5) Unadjusted hazard ratio (95% CI) 11.4 (4.5, 28.8) 3,660 Patients with a VTE during follow-up 32 (4.4%) 28 (0.8%) Median time to VTE (months) 10.6 14.5 Incidence rate of VTE per 1,000 person-years (95% CI) 26.5 (18.1, 37.5) 4.7 (3.1, 6.8)	Incidence rate of VTE per 1,000 person-years (95% CI)	23.0 (18.5, 28.3)	6.2 (5.2, 7.3)
Patients with a VTE during follow-up 51 (2.8%) 120 (1.3%) Median time to VTE (months) 8.8 19.8 Incidence rate of VTE per 1,000 person-years (95% Cl) 18.9 (14.0, 24.8) 6.5 (5.4, 7.8) Unadjusted hazard ratio (95% Cl) 2.9 (2.1, 4.0) 6.5 (5.4, 7.8) Age at index date 461 2,305 Patients with a VTE during follow-up 17 (3.7%) 6 (0.3%) Median time to VTE (months) 12.2 8.7 Incidence rate of VTE per 1,000 person-years (95% Cl) 17.7 (10.3, 28.4) 1.6 (0.6, 3.5) Unadjusted hazard ratio (95% Cl) 11.4 (4.5, 28.8) 3,660 Patients with a VTE during follow-up 32 (4.4%) 28 (0.8%) Median time to VTE (months) 10.6 14.5 Incidence rate of VTE per 1,000 person-years (95% Cl) 26.5 (18.1, 37.5) 4.7 (3.1, 6.8)	Unadjusted hazard ratio (95% CI)	3.7 (2.8, 4.8)	
Median time to VTE (months) 8.8 19.8 Incidence rate of VTE per 1,000 person-years (95% CI) 18.9 (14.0, 24.8) 6.5 (5.4, 7.8) Unadjusted hazard ratio (95% CI) 2.9 (2.1, 4.0) 6.0 (0.3%) Age at index date 461 2,305 Patients with a VTE during follow-up 17 (3.7%) 6 (0.3%) Median time to VTE (months) 12.2 8.7 Incidence rate of VTE per 1,000 person-years (95% CI) 17.7 (10.3, 28.4) 1.6 (0.6, 3.5) Unadjusted hazard ratio (95% CI) 11.4 (4.5, 28.8) 3,660 Patients with a VTE during follow-up 32 (4.4%) 28 (0.8%) Median time to VTE (months) 10.6 14.5 Incidence rate of VTE per 1,000 person-years (95% CI) 26.5 (18.1, 37.5) 4.7 (3.1, 6.8)	Women	1,814	9,070
Incidence rate of VTE per 1,000 person-years (95% CI) 18.9 (14.0, 24.8) 6.5 (5.4, 7.8) Unadjusted hazard ratio (95% CI) 2.9 (2.1, 4.0) 2.305 Age at index date 461 2,305 Age <50 years	Patients with a VTE during follow-up	51 (2.8%)	120 (1.3%)
Unadjusted hazard ratio (95% CI) 2.9 (2.1, 4.0) Age at index date 461 2,305 Age <50 years	Median time to VTE (months)	8.8	19.8
Age at index date Age <50 years	Incidence rate of VTE per 1,000 person-years (95% CI)	18.9 (14.0, 24.8)	6.5 (5.4, 7.8)
Age <50 years	Unadjusted hazard ratio (95% CI)	2.9 (2.1, 4.0)	
Patients with a VTE during follow-up 17 (3.7%) 6 (0.3%) Median time to VTE (months) 12.2 8.7 Incidence rate of VTE per 1,000 person-years (95% CI) 17.7 (10.3, 28.4) 1.6 (0.6, 3.5) Unadjusted hazard ratio (95% CI) 11.4 (4.5, 28.8) 3,660 Patients with a VTE during follow-up 32 (4.4%) 28 (0.8%) Median time to VTE (months) 10.6 14.5 Incidence rate of VTE per 1,000 person-years (95% CI) 26.5 (18.1, 37.5) 4.7 (3.1, 6.8)	Age at index date		
Median time to VTE (months) 12.2 8.7 Incidence rate of VTE per 1,000 person-years (95% CI) 17.7 (10.3, 28.4) 1.6 (0.6, 3.5) Unadjusted hazard ratio (95% CI) 11.4 (4.5, 28.8) 3,660 Age 50–59 years 732 3,660 Patients with a VTE during follow-up 32 (4.4%) 28 (0.8%) Median time to VTE (months) 10.6 14.5 Incidence rate of VTE per 1,000 person-years (95% CI) 26.5 (18.1, 37.5) 4.7 (3.1, 6.8)	Age <50 years	461	2,305
Incidence rate of VTE per 1,000 person-years (95% CI) 17.7 (10.3, 28.4) 1.6 (0.6, 3.5) Unadjusted hazard ratio (95% CI) 11.4 (4.5, 28.8) 3,660 Age 50–59 years 732 3,660 Patients with a VTE during follow-up 32 (4.4%) 28 (0.8%) Median time to VTE (months) 10.6 14.5 Incidence rate of VTE per 1,000 person-years (95% CI) 26.5 (18.1, 37.5) 4.7 (3.1, 6.8)	Patients with a VTE during follow-up	17 (3.7%)	6 (0.3%)
Unadjusted hazard ratio (95% CI) 11.4 (4.5, 28.8) Age 50–59 years 732 3,660 Patients with a VTE during follow-up 32 (4.4%) 28 (0.8%) Median time to VTE (months) 10.6 14.5 Incidence rate of VTE per 1,000 person-years (95% CI) 26.5 (18.1, 37.5) 4.7 (3.1, 6.8)	Median time to VTE (months)	12.2	8.7
Age 50–59 years 732 3,660 Patients with a VTE during follow-up 32 (4.4%) 28 (0.8%) Median time to VTE (months) 10.6 14.5 Incidence rate of VTE per 1,000 person-years (95% CI) 26.5 (18.1, 37.5) 4.7 (3.1, 6.8)	Incidence rate of VTE per 1,000 person-years (95% CI)	17.7 (10.3, 28.4)	1.6 (0.6, 3.5)
Patients with a VTE during follow-up 32 (4.4%) 28 (0.8%) Median time to VTE (months) 10.6 14.5 Incidence rate of VTE per 1,000 person-years (95% CI) 26.5 (18.1, 37.5) 4.7 (3.1, 6.8)	Unadjusted hazard ratio (95% CI)	11.4 (4.5, 28.8)	
Median time to VTE (months) 10.6 14.5 Incidence rate of VTE per 1,000 person-years (95% CI) 26.5 (18.1, 37.5) 4.7 (3.1, 6.8)	Age 50–59 years	732	3,660
Incidence rate of VTE per 1,000 person-years (95% CI) 26.5 (18.1, 37.5) 4.7 (3.1, 6.8)	Patients with a VTE during follow-up	32 (4.4%)	28 (0.8%)
	Median time to VTE (months)	10.6	14.5
Unadjusted hazard ratio (95% CI) 5.5 (3.3, 9.1)	Incidence rate of VTE per 1,000 person-years (95% CI)	26.5 (18.1, 37.5)	4.7 (3.1, 6.8)
	Unadjusted hazard ratio (95% CI)	5.5 (3.3, 9.1)	

	ALS cases	Controls
Age 60–69 years	1,260	6,300
Patients with a VTE during follow-up	40 (3.2%)	58 (0.9%)
Median time to VTE (months)	10.0	11.2
Incidence rate of VTE per 1,000 person-years (95% CI)	21.6 (15.4, 29.4)	5.0 (3.8, 6.5)
Unadjusted hazard ratio (95% CI)	4.1 (2.7, 6.2)	
Age ≥70 years	1,752	8,760
Patients with a VTE during follow-up	52 (3.0%)	165 (1.9%)
Median time to VTE (months)	7.4	21.9
Incidence rate of VTE per 1,000 person-years (95% CI)	20.0 (14.9, 26.2)	8.5 (7.3, 9.9)
Unadjusted hazard ratio (95% CI)	2.3 (1.7, 3.2)	
Incidence of PE		
All	4,205	21,025
Patients with a PE during follow-up	56 (1.3%)	93 (0.4%)
Median time to PE (months)	10.3	19.6
Incidence rate of PE per 1,000 person-years (95% CI)	8.3 (6.3, 10.8)	2.3 (1.8, 2.8)
Unadjusted hazard ratio (95% CI)	3.6 (2.6, 5.1)	
Men	2,391	11,955
Patients with a PE during follow-up	38 (1.6%)	45 (0.4%)
Median time to PE (months)	10.3	19.6
Incidence rate of PE per 1,000 person-years (95% CI)	9.6 (6.8, 13.1)	2.0 (1.5, 2.7)
Unadjusted hazard ratio (95% CI)	4.7 (3.1, 7.3)	
Women	1,814	9,070
Patients with a PE during follow-up	18 (1.0%)	48 (0.5%)
Median time to PE (months)	10.6	20.2
Incidence rate of PE per 1,000 person-years (95% CI)	6.6 (3.9, 10.4)	2.6 (1.9, 3.4)
Unadjusted hazard ratio (95% CI)	2.5 (1.5, 4.4)	
Incidence of DVT		
All	4,205	21,025
Patients with a PE during follow-up	96 (2.3%)	180 (0.9%)

	ALS cases	Controls
Median time to PE (months)	10.1	17
Incidence rate of PE per 1,000 person-years (95% CI)	14.4 (11.7, 17.6)	4.4 (3.8, 5.1)
Unadjusted hazard ratio (95% CI)	3.2 (2.5, 4.1)	
Men	2,391	11,955
Patients with a PE during follow-up	58 (2.4%)	100 (0.8%)
Median time to PE (months)	10.8	14.6
Incidence rate of PE per 1,000 person-years (95% CI)	14.7 (11.2, 19.0)	4.5 (3.7, 5.5)
Unadjusted hazard ratio (95% CI)	3.2 (2.3, 4.5)	
Women	1,814	9,070
Patients with a PE during follow-up	38 (2.1%)	80 (0.9%)
Median time to PE (months)	9.8	20.7
Incidence rate of PE per 1,000 person-years (95% CI)	13.9 (9.9, 19.1)	4.3 (3.4, 5.4)
Unadjusted hazard ratio (95% CI)	3.2 (2.2, 4.7)	

CI = confidence interval; DVT = deep vein thrombosis; PE = pulmonary embolism; VTE = venous thromboembolism.