**Title: Incidence and mortality due to thromboembolic events during the COVID-19 pandemic: Multi-sourced population-based health records cohort study.**

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**Supplement Table 1. ICD-10 codes for thromboembolic events.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Arterial TE** | **Venous TE** | **DVT** | **PE** |
| * I63.0 Cerebral infarction due to thrombosis of precerebral arteries
* I63.1 Cerebral infarction due to embolism of precerebral arteries
* I63.2 Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries
* I63.3 Cerebral infarction due to thrombosis of cerebral arteries
* I63.4 Cerebral infarction due to embolism of cerebral arteries
* I63.5 Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries
* I63.6 Cerebral infarction due to cerebral venous thrombosis, nonpyogenic
* I63.8 Other cerebral infarction
* I63.9 Cerebral infarction, unspecified
* I64 Stroke, not specified as haemorrhage or infarction
* I65.1 Occlusion and stenosis of basilar artery
* I65.2 Occlusion and stenosis of carotid artery
* I65.8 Occlusion and stenosis of other precerebral arteries
* I66.1 Occlusion and stenosis of anterior cerebral artery
* I66.8 Occlusion and stenosis of other cerebral arteries
* I66.9 Occlusion and stenosis of unspecified cerebral artery
* I74 Arterial embolism and thrombosis
* I74.01 Saddle embolus of abdominal aorta
* I74.09 Other arterial embolism and thrombosis of abdominal aorta
* I74.10 Embolism and thrombosis of unspecified parts of aorta
* I76 Septic arterial embolism
* G459 Transient cerebral ischemic attack, unspecified
* K55.059 Acute (reversible) ischemia of intestine, part and extent unspecified
* N28.0 Ischemia and infarction of kidney
* K55.039 Acute (reversible) ischemia of large intestine, extent unspecified
* H34.9 Unspecified retinal vascular occlusion
 | * I81 Portal vein thrombosis
* I82 Other venous embolism and thrombosis
* I82.2 Embolism and thrombosis of vena cava
* I82.3 Embolism and thrombosis of renal vein
* I82.8 Embolism and thrombosis of other specified veins
* I82.9 Embolism and thrombosis of unspecified vein
* I82.0 Budd-Chiari syndrome
* O082 Embolism following abortion and ectopic and molar pregnancy
* O882 Obstetric blood-clot embolism
* O88.21 Thromboembolism in pregnancy
* O88.23 Thromboembolism in the puerperium
* O88.22 Thromboembolism in childbirth
* G08 Intracranial and intraspinal phlebitis and thrombophlebitis
* G95.19 Other vascular myelopathies
 | * I80.1 Phlebitis and thrombophlebitis of femoral vein
* I80.2 Phlebitis and thrombophlebitis of other deep vessels of lower extremities
* I80.3 Phlebitis and thrombophlebitis of lower extremities, unspecific
* I80.8 Phlebitis and thrombophlebitis of other sites
* I80.9 Phlebitis and thrombophlebitis of unspecified site
* I82.1 Thrombophlebitis migrans
* I82.4 Acute embolism and thrombosis of deep veins of lower extremity
* I82.5 Chronic embolism and thrombosis of deep veins of lower extremity
* I82.6 Acute embolism and thrombosis of veins of upper extremity
* I82.7 Chronic embolism and thrombosis of veins of upper extremity
* O223 Deep phlebothrombosis in pregnancy
* O871 Deep phlebothrombosis in the puerperium
 | * I26 Pulmonary embolism
* I26.0 Pulmonary embolism with acute cor pulmonale
* I26.9 Pulmonary embolism without acute cor pulmonale
* I27.82 Chronic pulmonary embolism
 |

DVT; deep venous thrombosis, PE; pulmonary embolism, TE; thrombo-embolic events

**Supplement Figure 1. Incidence rates of thromboembolic events, by the type of thromboembolic event and atrial fibrillation status.**



AF, atrial fibrillation, TE, thrombo-embolic events

**Supplement Table 2. Incidence rates, absolute risk change and unadjusted risk between COVID-19 -ve and +ve patients.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Incidence rate (per 100,000)** |  | **Absolute risk change** |  | **Unadjusted relative risk\*** | **Adjusted relative risk\*\*** |
| **Conditions** | **COVID-19 -ve** | **COVID-19 +ve** |  | **Percentage (95% CI)** |  | **RR (95% CI)** | **RR (95% CI)** |
| All patients |  |  |  |  |  |  |  |
| TE | 1597 | 1943 |  | 21.7% (21.0-22.4%) |  | 1.22 (1.21-1.23) | 1.20 (1.18-1.22) |
| Arterial TE | 1044 | 1171 |  | 12.2% (11.4-13.0%) |  | 1.13 (1.12-1.14) | 1.14 (1.12-1.16) |
| Venous TE | 553 | 972 |  | 76.0% (74.3-77.6%) |  | 1.89 (1.88-1.91) | 1.87 (1.85-1.89) |
| DVT | 237 | 288 |  | 21.6% (19.5-23.8%) |  | 1.46 (1.43-1.49) | 1.43 (1.39-1.47) |
| PE | 322 | 886 |  | 174.9% (171.7-178.1%) |  | 3.01 (2.98-3.05) | 2.96 (2.91-3.00) |

\* A Poisson regression model was used to calculate the relative risk.

\*\*A Poisson regression model was used to calculate the relative risk, adjusted for age, sex, and Charlson Comorbidity Index. TE, thrombo-embolic events; DVT, deep vein thrombosis; PE, pulmonary embolism.