Codes defined in the International Statistical Classification of Diseases and Related Health Problems 10th Revision (ICD-10) that we used to identify complications in the Hospital Episode Statistics (HES) dataset.


obstructive pulmonary disease with acute lower respiratory infection. Excluding with influenza”; J44.1, “Chronic obstructive pulmonary disease with acute exacerbation, unspecified”; J69.0, “Pneumonitis due to food and vomit. Excluding Mendelson syndrome”; J69.1, “Pneumonitis due to oils and essences”; J69.8, “Pneumonitis due to other solids and liquids. Pneumonitis due to aspiration of blood”; and J85.1, “Abscess of lung with pneumonia. Excluding with pneumonia due to specified organism”.


**Pulmonary embolism/deep vein thrombosis**: I80.1, “Phlebitis and thrombophlebitis of superficial vessels of lower extremities”; I80.1, “Phlebitis and thrombophlebitis of femoral vein”; I80.3, “Phlebitis and thrombophlebitis of other deep vessels of lower extremities”; I26.0, “Pulmonary embolism with mention of acute cor pulmonale”; and I26.9, “Pulmonary embolism without mention of acute cor pulmonale”.

**Urinary tract infection**: N30.0, “Acute cystitis. Excluding irradiation cystitis and trigonitis”; and N39.0, “Urinary tract infection, site not specified”.

**Wound disruption**: T81.3, “Disruption of operation wound, not elsewhere classified”.

**Surgical site infection**: T81.4, “Infection following a procedure, not elsewhere classified”.

**Fracture after implant**: M96.6, “Fracture of bone following insertion of orthopaedic implant, joint prosthesis, or bone plate. Excluding complication of internal orthopaedic devices, implants or grafts”.

**Complication of prosthesis**: T84.0, “Mechanical complication of internal joint prosthesis”.
Neurovascular injury: T81.2, “Accidental puncture and laceration during a procedure, not elsewhere classified. Accidental perforation of: blood vessel, nerve or organ by: catheter, endoscope, instrument or probe during a procedure”.