

**Table S1 – DRG used to identify hospitalizations related to disease specific adverse events**

Adverse event	DRG	MZL	CLL	WM
Spinal compression fracture	009			X
Spinal stenosis				X
Cerebral Haemorrhage	014	X		X
Subarachnoid haemorrhage		X		X
Subdural haematoma		X		X
Subdural haemorrhage		X		X
Traumatic intracranial haemorrhage		X		X
Transient Ischaemic Attack	015	X		
Cerebrovascular accident	017		X	X
Cervical Radiculopathy	019	X		
Head injury	032			X
Septic encephalopathy	034	X		X
Brain abscess		X		X
Lethargy	035			X
Blindness unilateral	045		X	X
Diplopia			X	X
Eye haemorrhage	046			X
Periorbital haematoma	047			X
Breast cancer	053			X
Fall	065	X	X	X
Dizziness		X	X	X
Sinusitis	069	X	X	X
Upper respiratory tract infection		X	X	X
Tonsillitis	073	X		X
Laryngeal oedema		X		X
Embolism	078	X		
Pulmonary embolism		X		
COVID-9 pneumonia	079	X	X	X
Lower respiratory tract infection		X	X	X
Lung Infection		X	X	X
Respiratory syncytial virus infection		X	X	X
Post-acute COVID-9 syndrome		X	X	X
Pulmonary tuberculosis		X	X	X
Infection	080	X	X	X
COVID-9		X	X	X
Respiratory tract infection		X	X	X
Bronchial Injury*	084	X		
Haemothorax	085			X
Pleural effusion	086	X	X	X
Respiratory failure	087	X		X
Acute pulmonary oedema		X		X
Acute respiratory failure		X		X

Adverse event	DRG	MZL	CLL	WM
Eosinophilic Pneumonia	089	X	X	X
Organising Pneumonia		X	X	X
Pneumonia		X	X	X
Pneumonitis		X	X	X
Pneumocystis jirovecii pneumonia		X	X	X
Pneumonia pseudomonal		X	X	X
Pneumonia aspiration		X	X	X
Pneumonia viral		X	X	X
Bronchopneumonia	090		X	X
Interstitial lung disease	093			X
Pneumothorax	094	X		
Bronchitis	097	X	X	
Dyspnoea	099	X	X	
Haemoptysis		X	X	
Hypoxia		X	X	
Respiratory disorder	102			X
Myocardial infarction	121	X		
Acute myocardial infarction	122		X	X
Endocarditis bacterial	126			X
Streptococcal endocarditis				X
Cardiac failure congestive	127	X	X	X
Multiple organ dysfunction syndrome		X	X	X
Cardiac failure		X	X	X
Acute left ventricular failure		X	X	X
Cardiac failure acute		X	X	X
Cardiac tamponade		X	X	X
Oedema peripheral	131			X
Peripheral vascular disorder				X
Coronary artery stenosis	132	X		X
Coronary artery disease		X		X
Hypertension	134	X	X	X
Aortic valve incompetence	136			X
Aortic valve stenosis				X
Mitral valve incompetence				X
Sinus node dysfunction	138			X
Atrial fibrillation	139	X	X	X
Atrial flutter		X	X	X
Atrioventricular block complete		X	X	X
Atrioventricular block second degree		X	X	X
Angina pectoris	140	X	X	X
Syncope	142		X	X
Loss of consciousness				X
Chest pain	143	X		
Non-cardiac chest pain		X		
Pericardial Effusion	144	X		X
Pericardial haemorrhage		X		X

Adverse event	DRG	MZL	CLL	WM	
Pericarditis		X		X	
Hypotension	145	X		X	
Cardiomegaly		X		X	
Gastrointestinal haemorrhage		X		X	
Gastric haemorrhage	174	X		X	
Upper gastrointestinal haemorrhage		X		X	
Melaena	175			X	
Colitis	179	X		X	
Large intestinal obstruction	180	X			
Faecaloma	181	X			
Small intestinal obstruction		X			
Gastrooesophageal reflux disease	183	X	X	X	
Diarrea		X	X	X	
Anal inflammation		X	X	X	
Clostridium difficile infection		X	X	X	
Diverticulitis		X	X	X	
Gastroenteritis rotavirus		X	X	X	
Gastrointestinal infection		X	X	X	
Vomiting		X	X	X	
Stomatitis		185	X		X
Oral blood blister			X		X
Abdominal pain upper	189	X	X		
Abdominal pain		X	X		
Pancreatitis	204	X		X	
Pancreatic disorder		X		X	
Amyloidosis	206			X	
Bile duct stone	208	X		X	
Cholecystitis		X		X	
Cholelithiasis		X		X	
Femoral neck fracture	235			X	
Femur fracture				X	
Acetabulum fracture	236	X			
Pelvic fracture		X			
Osteomyelitis	238			X	
Lumbar vertebral fracture	239			X	
Stress fracture				X	
Thoracic vertebral fracture				X	
Arthritis bacterial	242			X	
Osteoarthritis	244			X	
Neck pain	247			X	
Ankle Fracture	254	X		X	
Humerus fracture		X		X	
Metastatic malignant melanoma	272			X	
Nodular melanoma				X	
Basal cell carcinoma	273		X	X	
Squamous cell carcinoma			X	X	

Adverse event	DRG	MZL	CLL	WM
Cellulitis	278	X	X	X
Soft tissue infection		X	X	X
Paronychia	284			X
Fluid Overload	296	X		
Dehydration	297	X	X	X
Dysphagia		X	X	X
Hyperkalaemia		X	X	X
Hyponatraemia		X	X	X
Hypokalaemia		X	X	X
Malnutrition		X	X	X
Papillary thyroid cancer	300	X		
Acute kidney injury	316	X	X	X
Chronic kidney disease		X	X	X
Bladder cancer recurrent	318	X		
Bladder transitional cell carcinoma	319			X
Urosepsis	320			X
Pyelonephritis	321	X	X	X
Urinary tract infection		X	X	X
Urinary tract infection bacterial		X	X	X
Hematuria	325		X	X
Haematuria			X	X
Urinary bladder haemorrhage			X	X
Prostate cancer	347	X	X	
Prostatitis	350			X
Endometrial adenocarcinoma	366			X
Vaginal prolapse	369			X
Anemia	395	X	X	X
Haemorrhagic disorder	397	X	X	X
Autoimmune Haemolytic Anaemia	398	X	X	X
Haemolytic anaemia		X	X	X
Pancytopenia		X	X	X
Febrile Neutropenia		X	X	X
Neutropenic sepsis		X	X	X
Platelet count decreased	399	X	X	X
Neutropenia		X	X	X
Neutrophil count decreased		X	X	X
Thrombocytopenia		X	X	X
Lymphoma transformation	403			X
Lymphoma	404	X		
Marginal Zone Lymphoma		X		
Tumour haemorrhage	413			X
Myelodysplastic syndrome	414			X
Device related infection	418			X
Wound infection staphylococcal				X
Influenza	419	X	X	X
Pyrexia	420	X	X	X

Adverse event	DRG	MZL	CLL	WM
Parainfluenzae Virus Infection	421	X		X
Herpes zoster		X		X
Viral infection		X		X
Tuberculosis	423	X		
Anxiety	432			X
Drug-induced liver injury	449			X
Adverse drug reaction	450			X
Post procedural complication	452			X
Post procedural haemorrhage				X
Contusion	455			X
Asthenia	467	X		
Acute myeloid leukaemia	473	X		
Drug withdrawal syndrome	523			X
Headache	564			X
Hyperviscosity syndrome	574	X	X	X
Escherichia sepsis	576	X	X	X
Listeria Sepsis		X	X	X
Sepsis		X	X	X
Bacterial sepsis		X	X	X
Cryptococcal fungaemia		X	X	X
Septic shock		X	X	X
Streptococcal bacteraemia		X	X	X
Streptococcal sepsis		X	X	X
Post procedural sepsis		579		
Postoperative abscess				X