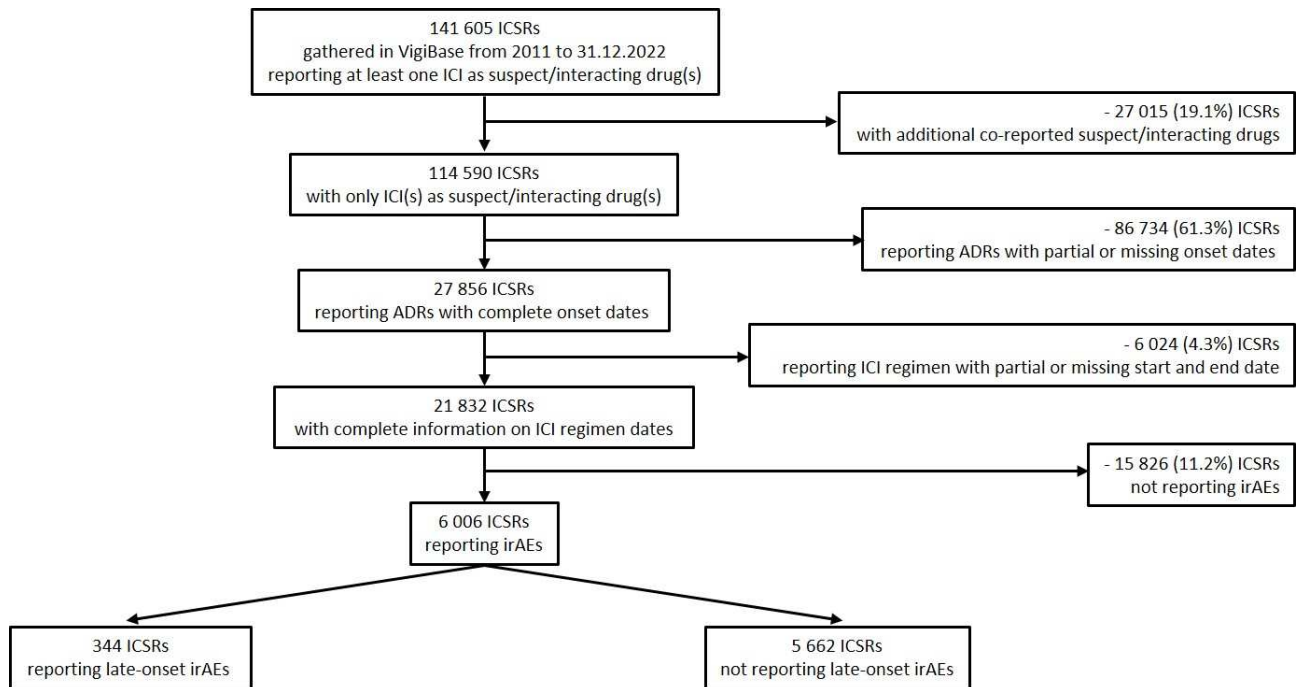


Supplementary Figure 1 Flowchart summarising the selection of individual case safety reports included in the study population



Abbreviations: ICSRs, individual case safety reports; ICI, immune checkpoint inhibitor; ADRs, adverse drug reactions; irAEs, immune-related adverse events

Supplementary Table 1 List of events containing or ending with '-itis' considered for the selection of immune-related adverse events associated with ICI treatment based on a consensus among authors, comprising clinical pharmacologists

Preferred terms (according to MedDRA version 26.0)
Acrodermatitis enteropathica
Acute haemorrhagic ulcerative colitis
Acute interstitial pneumonitis
Adrenalitis
Allergic colitis
Alveolitis
Angular cheilitis
Appendicitis
Atrophic vulvovaginitis
Blepharitis
Bronchiolitis
Bursitis
Cellulitis
Cheilitis
Cholangitis
Cholecystitis
Cholecystitis chronic
Chorioretinitis
Chronic hepatitis
Colitis ischaemic
Conjunctivitis
Conjunctivitis allergic
Cystitis haemorrhagic
Cystitis noninfective
Dermatitis acneiform
Dermatitis allergic
Dermatitis exfoliative
Dermatitis exfoliative generalised
Dermatitis psoriasiform
Dermo-hypodermitis
Diverticulitis
Duodenitis
Encephalitis toxic
Enterocolitis haemorrhagic
Eosinophilic bronchitis
Eosinophilic colitis

Folliculitis
Gastritis
Gastritis erosive
Gastritis haemorrhagic
Gastroenteritis
Gastroenteritis eosinophilic
Gingivitis
Glossitis
Granulomatous pneumonitis
Haemorrhagic erosive gastritis
Hand dermatitis
Hepatitis acute
Hepatitis cholestatic
Hepatitis fulminant
Hepatitis toxic
Hidradenitis
Hypersensitivity pneumonitis
Hypophysitis
Iridocyclitis
Iritis
Keratitis
Keratouveitis
Lymphadenitis
Lymphangitis
Meningitis
Meningitis aseptic
Meningoradiculitis
Mesenteric panniculitis
Nasopharyngitis
Necrotising colitis
Necrotising myositis
Nephritis allergic
Neurodermatitis
Noninfective gingivitis
Oedematous pancreatitis
Oesophagitis
Oligoarthritis
Orbital myositis
Orchitis
Osteitis deformans

Osteoarthritis
Osteomyelitis
Pachymeningitis
Pancreatitis acute
Pancreatitis necrotising
Panniculitis
Papillitis
Parotitis
Periarthritis
Pericarditis constrictive
Periostitis
Plantar fasciitis
Pleuropericarditis
Pneumonitis
Polyarthritis
Proctitis
Pseudomembranous colitis
Rhinitis
Rhinitis allergic
Scrotal dermatitis
Seborrhoeic dermatitis
Seronegative arthritis
Serositis
Sialoadenitis
Spinal osteoarthritis
Synovitis
Tendonitis
Tenosynovitis
Thrombophlebitis
Thrombophlebitis migrans
Thyroiditis acute
Thyroiditis subacute
Tubulointerstitial nephritis
Ulcerative gastritis
Vestibular neuronitis
Vulvitis

Abbreviations: MedDRA, Medical Dictionary for Regulatory Activities

Supplementary Table 2 Spectrum of the clinical presentations of late-onset immune-related adverse events by organ toxicity

Organ toxicity	Clinical presentation (MedDRA preferred terms)	N
Endocrine	thyroiditis	45
	diabetes mellitus	20
	hypophysitis	17
	adrenalitis	2
Gastrointestinal	colitis	30
	pancreatitis	15
	enterocolitis	10
	gastritis	9
	cholangitis	2
	cholecystitis	2
	diverticulitis	2
	duodenitis	1
	oesophagitis	1
	Respiratory	pneumonitis
interstitial lung disease		25
nasopharyngitis		4
rhinitis		1
Skin	vitiligo	19
	pemphigoid	7
	dermatitis	4
	psoriasis	4
	panniculitis	2
	cellulitis	2
	cutaneous lupus	2
	dermo-hypodermitis	1
	erythema multiforme	1
	erythema nodosum	1
	folliculitis	1
	lichen planus	1
	Neurologic	neuropathy
myelitis		3
encephalitis		2
encephalopathy		2
myasthenia		2

	neuritis	1
Hepatic	hepatitis	23
Musculoskeletal	arthritis	11
	polymyalgia rheumatica	4
	fasciitis	2
	myositis	2
	osteitis deformans	1
	synovitis	1
	tendonitis	1
Eye	uveitis	4
	conjunctivitis	2
	iridocyclitis	1
	iritis	1
	keratitis	1
Renal	nephritis	8
	cystitis	1
Cardiac	myocarditis	5
	pericarditis	3
Other	immune-mediated adverse reaction	2
	anti-actin antibody positive	1
	anti-neutrophil cytoplasmic antibody positive	1
	autoinflammatory disease	1
	serositis	1
	smooth muscle antibody positive	1
Blood	anaemia	2
	thrombocytopenia	2
	neutropenia	1
Vascular	vasculitis	4
	lymphagitis	1
Immune	sarcoidosis	2
	Sjogren's syndrome	1
	thrombocytopenic purpura	1

Abbreviations: MedDRA, Medical Dictionary for Regulatory Activities