

SUPPLEMENTARY TABLE 1. Search strategy to identify recombinant zoster vaccine (RZV) reports of selected pre-specified outcomes in the Vaccine Adverse Events Reporting System (VAERS) — United States, October 2017–June 2018

Pre-specified outcomes	Search strategy to identify pre-specified outcomes: Includes MedDRA Preferred Terms, MedDRA System Organ Class (SOC) groupings, text string searches, or VAERS check boxes
Herpes zoster	herpes zoster, vaccination failure, vaccine breakthrough infection,
Post-herpetic neuralgia	post herpetic neuralgia, trigeminal neuralgia, neuralgia
Autoimmune disorders	cell-mediated immune deficiency, cholangitis, colitis ulcerative, Crohn’s disease, Henoch-Schonlein purpura, Henoch-Schonlein purpura nephritis, immune-mediated adverse reaction, Kawasaki disease, , Raynaud’s phenomenon, Stevens-Johnson syndrome, type III immune complex mediated reaction, acute haemorrhagic colitis ulcerative, cholecystocholangitis, thromboangiitis obliterans, autoimmune myocarditis, autoimmune pericarditis, myocarditis post infection, postpericardiotomy syndrome, alopecia areata, autoimmune dermatitis, benign familial pemphigus, dermatitis herpetiformis, granulomatous dermatitis, herpes gestationis, interstitial granulomatous dermatitis, juvenile psoriatic arthritis, lichen planus, lichen sclerosus, linear IgA disease, palisaded neutrophilic granulomatous dermatitis, paraneoplastic pemphigus, pemphigoid, pemphigoid, pityriasis lichenoides et varioliformis acuta, psoriasis, psoriatic arthropathy, pyoderma gangrenosum, pyogenic sterile arthritis pyoderma gangrenosum and acne syndrome, vitiligo, anti-insulin antibody, anti-insulin antibody decreased, anti-insulin antibody increased, anti-insulin antibody positive, anti-insulin receptor antibody, anti-insulin receptor antibody decreased, anti-insulin receptor antibody increased, anti-insulin receptor antibody positive, anti-islet cell antibody, anti-islet cell antibody positive, diabetic mastopathy, insulin autoimmune syndrome, latent autoimmune diabetes in adults, type 1 diabetes mellitus, Addison’s disease, atrophic thyroiditis, autoimmune endocrine disorder, autoimmune hypothyroidism, autoimmune thyroid disorder, autoimmune thyroiditis, Basedow’s disease, endocrine ophthalmopathy, Hashimoto’s encephalopathy, Hashitoxicosis, lymphocytic hypophysitis, Marine-Lenhart syndrome, polyglandular autoimmune syndrome type I, polyglandular autoimmune syndrome type II, polyglandular autoimmune syndrome type III, polyglandular disorder, silent thyroiditis, autoimmune retinopathy, autoimmune uveitis, birdshot chorioretinopathy, ligneous conjunctivitis, ocular pemphigoid, scleritis, scleritis allergic, ulcerative keratitis, uveitis, autoimmune inner ear disease, Meniere’s disease, autoimmune colitis, autoimmune hepatitis, autoimmune pancreatitis, biliary cirrhosis primary, cholangitis sclerosing, chronic gastritis, coeliac disease, Dressler’s syndrome, intrinsic factor antibody, intrinsic factor antibody abnormal, intrinsic factor antibody positive, parietal cell antibody, parietal cell antibody normal, parietal cell antibody positive, pernicious anaemia, cystitis interstitial, noninfective oophoritis, testicular autoimmunity, anti-erythrocyte antibody, anti-erythrocyte antibody negative, anti-erythrocyte antibody positive, antiphospholipid antibodies, antiphospholipid antibodies negative, antiphospholipid antibodies positive, antiphospholipid syndrome, anti-platelet antibody, anti-platelet antibody negative, anti-platelet antibody positive, aplasia pure red cell, autoimmune aplastic anaemia, autoimmune haemolytic anaemia, autoimmune hyperlipidaemia, autoimmune lymphoproliferative syndrome, autoimmune neutropenia, autoimmune pancytopenia, Castleman’s disease, cold agglutinins, cold agglutinins positive, cold type haemolytic anaemia, coombs positive haemolytic anaemia, cryofibrinogenaemia, cryoglobulinaemia, Evans syndrome, haemolytic anaemia, immune agglutinins, immune thrombocytopenic purpura, paroxysmal nocturnal haemoglobinuria, thromboplastin antibody, thromboplastin antibody positive, thrombotic thrombocytopenic purpura, warm type haemolytic anaemia, acute cutaneous lupus erythematosus, butterfly rash, central nervous system lupus, chronic cutaneous lupus erythematosus, cutaneous lupus erythematosus, lupoid hepatic cirrhosis, lupus cystitis, lupus encephalitis, lupus endocarditis, lupus enteritis, lupus hepatitis, lupus myocarditis, lupus nephritis, lupus pancreatitis, lupus pleurisy, lupus pneumonitis, lupus vasculitis, lupus-like syndrome, neonatal lupus erythematosus, neuropsychiatric lupus, pericarditis lupus, peritonitis lupus, shrinking lung syndrome, SLE arthritis, subacute cutaneous lupus erythematosus, systemic lupus erythematosus, systemic lupus erythematosus rash, acute disseminated encephalomyelitis, acute haemorrhagic leukoencephalitis, acute motor axonal neuropathy, acute motor-sensory axonal neuropathy, anti-myelin-associated glycoprotein antibodies positive, anti-myelin-associated glycoprotein associated polyneuropathy, anti-neuronal antibody, anti-neuronal antibody positive, autoimmune demyelinating disease, autoimmune encephalopathy, autoimmune neuropathy, autonomic nervous system imbalance, axonal neuropathy, Bickerstaff’s encephalitis,

	<p>chronic inflammatory demyelinating polyradiculoneuropathy, chronic lymphocytic inflammation with pontine perivascular enhancement responsive to steroids, concentric sclerosis, demyelinating polyneuropathy, encephalitis allergic, encephalitis autoimmune, Guillain-Barré syndrome, leukoencephalomyelitis, limbic encephalitis, multiple sclerosis, multiple sclerosis plaque, myasthenia gravis, myasthenia gravis crisis, myasthenia gravis neonatal, myasthenic syndrome, myelitis transverse, neuralgic amyotrophy, neuromyelitis optica spectrum disorder, neuromyotonia, ocular myasthenia, optic neuritis, paediatric autoimmune neuropsychiatric disorders associated with streptococcal infection, POEMS syndrome, radiculitis brachial, radiologically isolated syndrome, Rasmussen encephalitis, secondary cerebellar degeneration, stiff leg syndrome, stiff person syndrome, Susac's syndrome, alveolar proteinosis, idiopathic pulmonary fibrosis, ankylosing spondylitis, arthritis reactive, autoimmune arthritis, axial spondyloarthritis, Caplan's syndrome, collagen disorder, collagen-vascular disease, concentric sclerosis, CREST syndrome, dermatomyositis, digital pitting scar, eosinophilic fasciitis, Felty's syndrome, immune-mediated necrotising myopathy, inclusion body myositis, juvenile idiopathic arthritis, juvenile polymyositis, juvenile spondyloarthritis, keratoderma blenorrhagica, laryngeal rheumatoid arthritis, mixed connective tissue disease, morphea, palindromic rheumatism, paraneoplastic dermatomyositis, polychondritis, polymyalgia rheumatica, polymyositis, progressive facial hemiatrophy, Reiter's syndrome, rheumatoid arthritis, rheumatoid factor, rheumatoid factor decreased, rheumatoid factor increased, rheumatoid factor positive, rheumatoid factor quantitative, rheumatoid factor quantitative decreased, rheumatoid factor quantitative increased, rheumatoid lung, rheumatoid neutrophilic dermatosis, rheumatoid nodule, rheumatoid scleritis, rheumatoid vasculitis, sclerodactylia, scleroderma, scleroderma associated digital ulcer, scleroderma renal crisis, scleroderma-like reaction, Sjögren's syndrome, systemic scleroderma, systemic sclerosis pulmonary, undifferentiated connective tissue disease, chronic recurrent multifocal osteomyelitis, erythema nodosum, mesenteric panniculitis, necrotising panniculitis, panniculitis, retroperitoneal fibrosis, septal panniculitis, sympathetic ophthalmia, antisynthetase syndrome, Behcet's syndrome, Cogan's syndrome, Goodpasture's syndrome, immunoglobulin G4 related disease, Morvan syndrome, nephrogenic systemic fibrosis, overlap syndrome, pulmonary renal syndrome, Reynolds syndrome, Satoyoshi syndrome, Schnitzler's syndrome, Tolosa-Hunt syndrome, toxamyloid arthropathy, amyloidosis, amyloidosis senile, cardiac amyloidosis, cerebral amyloid angiopathy, cutaneous amyloidosis, dialysis amyloidosis, familial amyloidosis, familial Mediterranean fever, gastrointestinal amyloidosis, hepatic amyloidosis, hereditary neuropathic amyloidosis, primary amyloidosis, pulmonary amyloidosis, renal amyloidosis, secondary amyloidosis, tongue amyloidosis, cardiac sarcoidosis, cutaneous sarcoidosis, liver sarcoidosis, muscular sarcoidosis, neurosarcoidosis, ocular sarcoidosis, pulmonary sarcoidosis, sarcoidosis, autoantibody positive, autoimmune disorder, human antichimeric antibody positive, human anti-mouse antibody increased, human anti-mouse antibody positive, human anti-mouse antibody test, immunoglobulin therapy, immunomodulatory therapy, immunosuppressant drug level, immunosuppressant drug level decreased, immunosuppressant drug level increased, immunosuppressant drug therapy, anti-islet cell antibody negative, anti-neuronal antibody negative, autoantibody test, cold agglutinins negative, human antichimeric antibody negative, human antichimeric antibody test, human anti-human antibody test, intrinsic factor antibody negative, parietal cell antibody negative, rheumatoid factor negative, thromboplastin antibody negative, steroid therapy</p>
Neuropathy	<p>acute polyneuropathy, amyotrophy, angiopathic neuropathy, central pain syndrome, ischaemic neuropathy, loss of proprioception, multifocal motor neuropathy, myelopathy, neuritis, neuronal neuropathy, neuropathic muscular atrophy, neuropathy peripheral, notalgia paraesthetica, peripheral motor neuropathy, peripheral sensorimotor neuropathy, peripheral sensory neuropathy, polyneuropathy, polyneuropathy chronic, polyneuropathy idiopathic progressive, sensorimotor disorder, sensory disturbance, sensory loss, small fibre neuropathy, toxic neuropathy</p>
Inflammatory eye disease	<p>chorioretinopathy, choroiditis, corneal degeneration, corneal endotheliitis, episcleritis, exudative retinopathy, herpes zoster ophthalmic, intermediate uveitis, iridocyclitis, iritis, keratitis, keratitis herpetic, keratitis interstitial, keratoconjunctivitis sicca, keratopathy, keratouveitis, necrotising herpetic retinopathy, necrotising retinitis, neurotrophic keratopathy, ophthalmic herpes zoster, optic neuritis, papillitis, punctate keratitis, retinitis, retinitis pigmentosa, retinitis viral, retinopathy, retinopathy haemorrhagic, scleritis, ulcerative keratitis, uveitis, viral uveitis</p>

Acute myocardial infarction	acute cardiac event, acute coronary syndrome, acute myocardial infarction, angina unstable, blood creatine phosphokinase-MB abnormal, blood creatine phosphokinase-MB increased, coronary artery embolism, coronary artery occlusion, coronary artery reocclusion, coronary artery thrombosis, coronary bypass thrombosis, coronary vascular graft occlusion, Kounis syndrome, myocardial infarction, myocardial necrosis, myocardial reperfusion injury, myocardial stunning, papillary muscle infarction, postinfarction angina, silent myocardial infarction, troponin I increased, troponin increased, troponin T increased
Seizures/convulsions	convulsion, convulsions local, febrile convulsion, generalised tonic-clonic seizure, grand mal convulsion, seizure, status epilepticus, atonic seizures, atypical benign partial epilepsy, clonic convulsion, complex partial seizures, epilepsy, generalised non-convulsive epilepsy, idiopathic generalised epilepsy, myoclonic epilepsy, partial seizures, partial seizures with secondary generalisation, petit mal epilepsy, seizure cluster, seizure like phenomena, simple partial seizures, temporal lobe epilepsy, tonic clonic movements, tonic convulsion, tonic posturing
Bell's palsy	VII th nerve paralysis, facial palsy, facial paralysis, facial paresis, facial nerve disorder, oculofacial paralysis
Death	Patient died as documented in Box 8 on the VAERS-1 form or Box 21 on the VAERS 2.0 form
Guillain-Barré syndrome	demyelinating polyneuropathy, Guillain-Barré syndrome, Miller Fisher syndrome
Anaphylaxis	anaphylactic reaction, anaphylactic shock, anaphylactoid reaction, anaphylactoid shock
Lymphadenitis	lymphadenitis
Stroke/cerebrovascular event	cerebrovascular disorder, basal ganglia infarction, basal ganglia stroke, basilar artery occlusion, basilar artery thrombosis, brain stem infarction, brain stem ischaemia, brain stem stroke, carotid artery occlusion, carotid artery thrombosis, cerebellar artery occlusion, cerebellar embolism, cerebellar infarction, cerebellar ischaemia, cerebral artery embolism, cerebral artery occlusion, cerebral artery thrombosis, cerebral infarction, cerebral ischaemia, cerebral thrombosis, cerebrovascular accident, embolic cerebral infarction, embolic stroke, haemorrhagic cerebral infarction, haemorrhagic stroke, ischaemic cerebral infarction, ischaemic stroke, lacunar infarction, thalamic infarction, vertebral artery occlusion, brain stem embolism, brain stem thrombosis, carotid arterial embolus, cerebellar artery thrombosis, cerebral infarction foetal, haemorrhagic transformation stroke, migrainous infarction, perinatal stroke, precerebral artery occlusion, precerebral artery thrombosis, thrombotic cerebral infarction, thrombotic stroke, vertebral artery thrombosis
Co-administration of RZV with adjuvanted influenza vaccine and/or adjuvanted hepatitis B vaccine	Co-administration of RZV with adjuvanted influenza vaccine and/or adjuvanted hepatitis B vaccine on same day or within one month
Gout	<u>gout, gouty arthritis, gouty tophus</u>
Autoimmune vasculitis	arteritis, arteritis coronary, rheumatoid vasculitis, vasculitis, administration site vasculitis, anti-neutrophil cytoplasmic antibody positive vasculitis, cutaneous vasculitis, diffuse vasculitis, eosinophilic granulomatosis with polyangiitis, granulomatosis with polyangiitis, Henoch-Schonlein purpura, Henoch-Schonlein purpura nephritis, hypersensitivity vasculitis, injection site vasculitis, microscopic polyangiitis, nodular vasculitis, ocular vasculitis, polyarteritis nodosa, pulmonary vasculitis, renal vasculitis, retinal vasculitis, Takayasu's arteritis, temporal arteritis, urticarial vasculitis, vasculitis cerebral, vasculitis gastrointestinal, vasculitis necrotising, vaccination site vasculitis
Idiopathic thrombocytopenic purpura	immune thrombocytopenic purpura, thrombocytopenia, thrombocytopenic purpura, thrombotic thrombocytopenic purpura
Meningitis	meningitis bacterial, meningism, meningitis, meningitis aseptic, meningitis viral
Supraventricular tachyarrhythmias	supraventricular tachycardia, tachyarrhythmia, supraventricular tachyarrhythmia
Amyotrophic lateral sclerosis	amyotrophic lateral sclerosis
Optic ischemic neuropathy	optic ischaemic neuropathy, optic neuropathy
Osteonecrosis	osteonecrosis