

Table 1. Search terms auto-immune and autoinflammatory diseases*

Disease group	Disease terms
Pediatric/paediatric/juvenile/adolescent - Auto-immune disease	Juvenile Idiopathic Arthritis (JIA) Mixed Connective Tissue Disease (MCTD) Sjogren/Sjogren's syndrome Systemic Lupus Erythematosus (SLE) Juvenile dermatomyositis (JDM) Systemic sclerosis Systemic sclerodermia Antiphospholipid syndrome
Pediatric/paediatric/juvenile/adolescent - systemic vasculitis	Giant cell arteritis Takayasu/Takayasu's arteritis Kawasaki/Kawasaki's disease Behcet/Behcet's disease Wegener/Wegener's disease Polyarteriits nodosa (PAN) Microscopic polyangiitis Henoch-Schönlein / Henoch-schönlein Leukocytoclastic vasculitis Churg-strauss syndrome
Pediatric/paediatric/juvenile/adolescent - Auto-inflammatory Disease - Fever syndrome	Cryopyrin-associated periodic syndromes (CAPS) Chronic infantile neurologic, cutaneous, articular syndrome (CINCA) Neonatal-onset multisystemic inflammatory disease (NOMID) Muckle-Wells Disease (MWD) Tumor necrosis factor receptor-1 associated periodic syndrome (TRAPS) Familial Mediterranean Fever (FMF) Hereditary Recurrent/Relapsing Fever (title/abstract) Mevalonate Kinase Deficiency (MKD) Hyper-IgD-syndrome (HIDS) (title/abstract) Periodic fever, aphthous stomatitis, pharyngitis, and cervical adenitis syndrome (PFAPA syndrome)

* The search string consisted of searching the terms for disease groups and specific autoimmune diseases in all fields. All other terms for specific diseases were searched in title and abstract only. All search terms were combined with the Boolean operator 'OR'.

Table 2. Search terms vaccines*

Vaccination terms	Specific vaccines
Vaccines	<i>Bacillus calmette guerin (BCG) OR Mycobacterium bovis</i>
Vaccin	Cholera
Vaccination	Diphtheria
Immunisation	<i>Haemophilus influenza B</i>
Immunization	Hepatitis A (HAV)
	Hepatitis B (HBV)
	Human papillomavirus (HPV)
	Influenza OR H1N1
	Japanese encephalitis
	Measles
	Mumps
	<i>Neisseria meningitides (A/C/Y/W135, C conjugated)</i>
	Pertussis OR whooping cough
	Poliovirus OR poliomyelitis OR polio (parenteral and live attenuated oral)
	Rabies
	Rubella
	<i>Salmonella typhi</i> OR typhoid fever
	<i>Streptococcus pneumonia</i> (polysaccharide and conjugated)
	Varicella zoster virus (VZV) OR chickenpox or human herpesvirus 3
	Tetanus
	Tick-borne encephalitis
	Yellow fever

* The search string for vaccines consisted of general terms for vaccination combined with the Boolean operator AND for each vaccine preventable disease. Vaccination terms were searched in all fields and MeSH terms. The separate vaccines were combined with the Boolean operator 'OR'.

Table 3. Search terms medications*

Medication terms	Specific medications
Biologicals	Anti-CD20 Anti-CD-20 Rituximab Anti-IL-1 Anti-interleukin-1 Anakinra Canakinumab Anti-IL-6 Anti-interleukin-6 Tocilizumab Atlizumab Anti-IL-2 Anti-interleukin-2 Basiliximab Daclizumab Anti-TNF alpha Anti-tumor necrosis factor-alpha Etanercept Infliximab Humira Adalimumab Anti-CTLA-4 Anti- cytotoxic T-lymphocyte antigen-4 Ipilimumab Abatacept

Disease-modifying anti-rheumatic drugs	MTX Methotrexate Cyclophosphamide Cyclosporine Ciclosporin Tacrolimus Mycophenolate Mofetil Mycofenalaat mofetil MMF Hydroxychloroquine Chloroquine Sulfasalazine Sulphasalazine Azathioprine Leflunomide
Corticosteroids	Prednisone Prednisolone Methylprednisolone Dexamethasone Betamethasone

* The search string for medications consisted of general terms for medication groups and terms for specific immunosuppressive drugs within those groups. Identified MeSH terms were searched as well. No brand names were used. All terms were searched in title and abstract only. All terms were combined with the Boolean operator 'OR'.

Table 4. Search terms outcome measures*

Outcomes
Adverse effects
Antibodies
Antibody
Effectivity
Efficacy
Safety
Immunoglobulins
Immunology
Seroepidemiologic studies
Serologic response
Serologic tests
Serology
Seroprevalence

* The search string for outcome measures was searched in all fields and MeSH terms and combined with the Boolean operator 'OR'.

Table 5. Search terms Embase

Search domain	Search terms
Patients	<p>((('Pediatric' OR 'paediatric' OR 'juvenile' OR 'adolescent') AND ('autoimmune disease' OR 'vasculitis' OR 'autoinflammatory syndrome' OR 'fever syndrome' OR 'Mixed Connective Tissue Disease' OR 'Sjogren' OR 'Systemic lupus erythematosus' OR 'Dermatomyositis' OR 'Systemic sclerosis' OR 'Systemic sclerodermia' OR 'Antiphospholipid syndrome')) OR 'Juvenile Idiopathic arthritis' OR 'JIA' OR 'giant cell arteritis' OR 'Takayasu' OR 'Kawasaki' OR 'Behcet' OR 'Wegener' OR 'periarteritis nodosa' OR 'microscopic polyangiitis' OR 'Henoch-Schönlein' OR 'leukocytoclastic vasculitis' OR 'Churg-strauss syndrome' OR 'CAPS' OR 'Cryopyrin-Associated Periodic Syndromes' OR 'CINCA' OR 'Chronic Infantile Neurologic Cutaneous Articular Syndrome' OR 'NOMID' OR 'Neonatal-Onset Multisystem Inflammatory Disease' OR 'MWD' OR 'Muckle-Wells Disease' OR 'TRAPS' OR 'tumor necrosis factor receptor-1 associated periodic syndrome' OR 'FMF' OR 'Familial Mediterranean Fever' OR 'Hereditary Recurrent Fever' OR 'Hereditary relapsing fever' OR 'Mevalonate Kinase Deficiency' OR 'MKD' OR 'hyper-IgD-syndrome' OR 'HIDS' OR 'PFAPA syndrome' OR 'periodic fever, aphthous stomatitis, pharyngitis, and cervical adenitis syndrome')</p>
Medication	<p>'corticosteroids' OR 'prednisone' OR 'prednisolone' OR 'methylprednisolone' OR 'dexamethasone' OR 'betamethasone'</p> <p>'DMARDs' OR 'Disease-modifying antirheumatic drugs' OR 'DMARD' OR 'Disease-modifying anti-rheumatic drug' OR 'methotrexate' OR 'cyclophosphamide' OR 'cyclosporine' OR 'ciclosporin' OR 'tacrolimus' OR 'mycophenolate mofetil' OR 'mycofenolate mofetil' OR 'hydroxychloroquine' OR 'chloroquine' OR 'sulphasalazine' OR 'sulfasalazine' OR 'azathioprine' OR 'leflunomide' OR 'Biologicals' OR 'rituximab' OR 'anakinra' OR 'Canakinumab' OR 'tocilizumab' OR 'atlizumab' OR 'basiliximab' OR 'daclizumab' OR 'etanercept' OR 'infliximab' OR 'adalimumab' OR 'humira' OR 'adalimumab' OR 'ipilimumab'</p>

	OR 'abatacept'
Intervention	'vaccines' OR 'vaccine' OR 'vaccination' OR 'immunisation' OR 'immunization'
Outcome	'safety' OR (adverse AND effects) OR 'effectivity' OR 'efficacy' OR 'immunoglobulins' OR 'antibody' OR 'antibodies' OR (seroepidemiologic AND studies) OR 'seroprevalence' OR 'immunology' OR 'serology' OR (serologic AND tests) OR 'response'

The patient domain was searched with an explosion search without limits. All other domains were searched with an explosion search limited to: Human studies, English only, Embase only, main focus of paper The three domains patients, intervention, outcome or medication, intervention, outcome were combined using the Boolean operator AND. /exp indicates that an explosion search including sub-terms or derivatives was performed to increase the number of hits.