Table 5. CINAHL Complete Search Strategy

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| Number | Searches | Results |
| S1 | Adolescen\* or Bab\* or Child or Infant or Juvenile or Minor? or P?ediatric or Preschool or "Prime adult?" or Schoolchild or Teen\* or (Young adj (adult? or people or person?)) or Youngster or Youth | 1,104,863 |
| S2 | (Advanced adj (cancer? or illness\*)) or "Catastrophic ill\*" or "Critical\* ill\*" or Deteriorat\* or Dying or "End of life" or End-of-life or (Life adj (limit\* or threaten\*)) or Life-limit\* or Life-threaten\* or "Rare disease?" or Terminal\* | 292,577 |
| S3 | (("Amyotrophic lateral" or disseminat\* or insular\* or multiple) adj sclerosis) or ((Alper? or Leigh\* or Reye\* or Rett\* or Louis-bar\* or bar or chariot or joseph\* or machado or "azorean neurologic" or machado-joseph\* or myastheni\* or myoneural or channel) adj (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease?)) or ((Brain? or central or cerebr\*) adj3 (pals\* or paralys\* or pares\* or ?edema)) or ((Central or diffuse or general\* or idiopath\* ) adj3 epileps\*) or ((Cerebral or corticobasal) adj degeneration?) or ((Flaccid or spastic) adj3 (tetrap\* or quadrip\* or paraly\* or parap\* or diplegia\*)) or ((Spinal or peroneal) adj "muscular atroph\*") or ((Subacute or sub-acute) adj sclerosing adj (panencephalit\* or leukoencephalit\*)) or (Charcot adj3 marie) or charcot-marie or "Dejerine sottas" or ("Degenerative disease?" adj3 ("basal gangli\*" or "subcortical nuclei")) or "Anterior horn cell disease? " or (Ataxia\* and (cerebellar or hereditary or spinal or spinocerebellar or telangiectasia\* or "musculorum spinalis pseudomyopathica" or "myelopathic muscular" or "scapuloperoneal muscular")) or "Brain destruction" or "Cerebral degeneration? in childhood" or "Chronic progressive external ophthalmopleg\*" or CJD or (Congenital and (myastheni\* or myopath\*)) or Creutzfeldt-jakob\* or "Degenerative disease? of nervous system" or (Dementia\* and "lewy bod\*") or DLB or DLBD or "Early-onset cerebellar ataxia" or "Encephalomyelitis disseminata\*" or (Epilep\* adj3 (kojewnikoff or kojevnikov or "partial\* continu\*" or seizure?)) or Friedreich\* or "Hallervorden spatz" or Hallervorden-spatz\* or (Hered\* adj3 ((sensory adj3 motor) or sensorimotor) adj neuropath\*) or (Hered\* and atactic\* and polyneuriti\*) or Heredoataxia\* or Huntington\* or "Infantile spinal muscular atroph\*" or Jakob-creutzfeldt\* or "Measles inclusion body encephalit\*" or MIBE or "Mild cognitive impairment" or (Mitochondrial adj (encephalomyopath\* or myopath\*)) or "Motor neuron disease?" or "Muscular dystroph\*" or NBIA or "Neurodegeneration with brain iron accumulation" or "Neurogenic scapuloperoneal syndrome" or (Pantothenate adj ("kinase associated" or kinase-associated) adj neurodegeneration) or "Paralysis agitans" or Paraplegia or (Parkinson\* adj (disease or "dementia complex")) or PKAN or "Progressive bulbar palsy" or Quadriplegi\* or "Refsum\* disease?" or Relapsing-remitting or "Sclerosis multiplex" or (Spinocerebellar and (disease? or degenerat\* or atroph\*)) or "Spongiform encephalopathy" or SSPE or Struempell\* or "Telangiectasia cerebellooculocutanea" or "Tuberculosis of meninges and central nervous system" or "Tuberculosis of nervous system" or "Van bogaert\* leukoencephalit\*" or Werdnig-Hoffman\* | 57,688 |
| S4 | (("Biotin-dependent carboxylase" or b-complex) and (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease? or insufficienc\* or dystroph\* or deficienc\*)) or ((Beta- or beta) adj (thal?ass?emi\* or thal?as?emi\* or hemothal?ass?emi\*)) or (("Acquired immune\*" or BBB or G or H?emophagocyt\* or (Hypertelorism adj3 hypospadias) or Deletion or VCF or "Pharyngeal pouch" or "thymic aplasia" or "anomaly face") adj (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease?)) or ((Erythrophagocyt\* or h?emophagocyt\*) and Lymphohistiocyt\*) or ((Hypoplastic or aplas\* or aregenerative or "toxic paralytic") and An?emi\*) or ((Immunodeficienc\* or "Immune deficienc\*") and "predominant T-cell defect?") or ((Thal?ass?emi\* or thal?as?emi\*) adj major) or "McKusick 14541" or Agranulocytosis or (AIDS adj (related or associated)) or (AIDS adj3 (virus\* or infection?)) or (AIDS and (lentivirus or retrovirus or virus)) or "Blood aplasia" or (Congenital adj (erythroblastopenia or "erythroid hypoplasia")) or Cryoglobulin?em\* or CTAF or "Di George\*" or DiGeorge\* or "Familial histiocytic reticulosis" or Granulopenia or HIV or "Human immune\* virus\*" or (Lymphadenopath\* and retrovirus) or Neutropeni\* or (Opitz adj (BBBG or G-BBB or G or Frias)) or Panleukopenia or Paraprotein?em\* or "Progessive hypocythemia" or Sedlackova\* or Shprintzen\* or Velocardiofacial or Velo-cardiofacial or Velo-cardio-facial | 117,090 |
| S5 | Adenocancer\* or Adenocarcin\* or Cancer\* or Carcin\* or Malignan\* or Neoplas\* or Oncol\* or Tumo?r? | 619,870 |
| S6 | (("Heavy chain" or (immunoproliferative and "small intestinal") or myelodysplastic) and (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease?)) or (("Letterer Siwe" or Letterer-Siwe) adj (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease? or reticulo\*)) or ((Aleuk?emic or histiocyt\*) and reticulo\*) or ((Granuloma or mycosis) adj fungoides) or ((Hodgkin\* or non-hodgkin\*) and (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease? or lymphoma?)) or ((Langerhans-cell or "langerhans cell") adj (histiocyt\* or granuloma)) or ((Reticulo\* or histiocyt\*) adj X) or ("Acute panmyelosis" and (myelofibrosis or myelosclerosis or "bone marrow fibrosis")) or Leukemi\* or Lymphoma? or Lymphosarcoma\* or "Macro globulin\*" or Macrocryoglobulin\* or Macroglobulin\* or (Reticul\* and sarcoma\*) or Reticulolymphosarcoma\* or Reticulosarcoma\* or Retotheliosarcoma\* or (Xanthoma and juvenile) | 51,364 |
| S7 | ((((Amino-acid or "amino acid") adj (transport or metaboli\*)) or endocrin\* or hormon\* or fabry\* or ((glycogen or lipid) adj storage) or gaucher\* or nyhan\* or kelley-seegmiller\* or krabbe\* or "intestin\* carbohydrate absorption" or peroxisomal or gl?coneogenesis or "glucose production" or "glucose synthesis" or neoglycogenesis or ((fat or lipid) and storage) or "fatty-acid oxidation" or "maple syrup" or pick\* or galactosidase or galactosylceramid\* or "globoid cell") and (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease?)) or (((Lysine and hydroxylysine) or propionate or ornithine or tyrosine or "urea cycle" or glycoprotein or copper or fatty-acid or fructose or galactose or glucosaminoglycan or lipoid or "plasma protein" or plasma-protein or purine or pyrimidine or ketone or carnitine or pyruvate or glycine) and metaboli\* and (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease?)) or (("Globoid cell" or scholz or krabbe) and leu?odystroph\*) or ((Glycogen or lipid) and thesaurismosis) or ((Glycoprotein adj degradation) and defect\*) or ((Lowe\* or oculocerebrorenal or oculo-cerebro-renal or "2 oxoisovalerate dehydrogenase" or lipoamide or "circulating enzyme?" or antitrypsin or AAT or "alpha-1 protease") adj3 (syndrome? or dystroph\* or deficien\*)) or A1AD or (Amaurotic and idiocy) or "Arylsulfatase A deficien\*" or (Autoimmune and (polyglandular or polyendocrinopath\* or "multiple endocrinopathy\*")) or "Ceramide trihexosidosis" or Cerebrolipidos?s or (Diffus\* and angiokeratoma) or "Fabry dyslipidos?s" or Gangliosidos\* or Gl?cogenosis or Glycosphingolip?id\* or Hyperoxaluria or Hyperglycin?emia or Ketoaciduria or (Krabbe adj encephalaopath\*) or Leucinosis or Lip?idos?s or Lipodystroph\* or Maple-syrup-urine or (Mckusick adj (14490 or 20420 or 24520 or 24860 or 25720 or 30150)) or "Metachrom\* leukodystroph\*" or "Morbus gaucher" or Mucopolysaccharidos\* or Neurolipidos?s or (Neuronal adj ("ceroid lipofuscinos?s" or ceroid-lipofuscinos?s or ceroidos?s)) or Niemann-pick\* or ((Non-ketotic or nonketotic) and hyperglycin?emia) or Oxaluria or Phospholipidos?s or "Pick dementia" or (Sph?ngomyelin\* adj3 (syndrome? or dystroph\* or deficien\* or storage or lip?idosis)) or Sphingolipidos\* or Trimethylaminuria | 61,233 |
| S8 | ((Cystic or pancreas or pancreatic or pulmon\* or lung or bronchopulmonary or pneumonia) and fibro?s\*) or ((Pulmonary or lung) adj (insufficiency or sclerosis)) or ("Pancreas cystic" adj (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease?)) or (Alveolar and "parietoalveolar pneumonopath\*") or CF or (Fibro\* and phthisis) or Fibrocystic or Fibro-cystic or (Interstitial\* adj3 pneumoni\*) or "Mckusick 21970" or Mucoviscidosis or "Pneumoni\* acuta" or "Respiratory fail\*" | 144,611 |
| S9 | ((Cerebral or "corpus callosum" or brain or intracranial or apoplexy or stroke or intracerebral or intracortical or intraventricular or periventricular or "posterior fossa") and (bleed\* or h?emorrhag\*)) or ((Myocardial or heart or cardia\* or myocardia\* or premonitory or subendocardia\*) and (attack or infarct\*)) or ((Pulmonary or lung) and (hypertensi\* or HT)) or Cardiomyopath\* or Encephalorrhagia or "Endocardial fibroelastosis" or (Endomyocardial adj (fibros\* or disease? or eosinophilic disease?)) or "Heart myopath\*" or IPAH or "Portal vein thrombosis" | 96,313 |
| S10 | ((Acute or subacute or sub-acute) and necrosis and (liver? or hepati\*)) or ((Liver? or hepati\*) adj (fail\* or fibros\* or scleros\* or coma? or veno-occlus\*)) or (Chronic and (liver? or hepati\*) and (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease? or insufficienc\*)) or (Cirrhosis and (liver? or hepati\* or biliary or dietary)) or "Periportal fibrosis" or (Vascular adj (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease? or insufficienc\*) adj3 intestin\*) | 20,726 |
| S11 | (("Stage 5" or "stage V" or "end stage") adj3 (kidney or renal)) or ((Kidney\* or renal) adj3 (fail\* or insufficienc\* or disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease?)) or ((Disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease?) and impaired and (kidney? or renal) and tubular) or CKF or CRF or ESKD or ESKF or ESRD or ESRF or (Nephritis and nephropath\*) | 18,099 |
| S12 | (((Atrioventricular or av) adj (cardiac or heart) adj "valv\* atresia") and right) or (((Great or large) adj (arter\* or vessel?)) and transposition?) or (("Ale calo" or (giedion and langer) or (hypoplas\* adj3 heart) or "langer guidion" or langer-giedion or (polydactyly and "short rib") or "short rib-polydactyly" or ("brittle bone" and bruck) or alport\* or edward\* or "de Morsier" or hhho or lobstein or neurocutaneous or patau\*) adj (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease?)) or (("Arnold chiari" or arnold-chiari) adj (deform\* or malform\* or disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease?)) or (("Septo optic" or septo-optic or septooptic) adj dysplas\*) or ((Alcohol adj3 (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease?)) and f?etal) or ((Alcohol adj3 f?etus) and (placenta or "breast milk")) or ((Amniocele or eventration) and congenital) or ((Congenital and (cardiac or heart)) adj (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease? or distress\* or fail\*)) or ((Congenital or posterior) and urethra\* and valve?) or ((Hypoplas\* or dysplas\*) and (lung? or pulmonary or bronchopulmonary)) or ((Kidney or renal) adj multicystic adj (aplasia or disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease?)) or ((Kidney or renal) and (absence or agenesi\* or aplasia or dysplas\*)) or ((Kidney or renal) and (cystic or polycyst\* or polycystic)) | 9,410 |
| S13 | ((Lung? or pulmon\* or arter\* or heart? or bronchopulmonary or tricuspid or tri or ((atrioventricular or av) and valv\*)) and atresia\*) or ((Myelodysplasia or neuroschisis or (spin\* adj (bifida or dysraphi\*))) and hydrocephal\*) or ((Non-bullous or nonbullous or congenital) adj3 "ichthyosiform erythroderma") or ((Obstruction or narrow\* or steno\* or stricture) and ("bladder neck" or lung or pulmona\* or aort\* or ileum or "small bowel" or "small intestine" or urethra\*)) or ((Transposition\* or dextrotransposition\* or dtransposition\* or levotransposition\* or ltransposition\*) adj3 (((great or main or pulmonary) adj arter\*) or aorta\* or ((great or main) adj vessel?))) or ("Double inlet" adj3 ventricle?) or ("Truncus arteriosus" and persistent) or Achondro\* or "Agenesis, hypoplasia and dysplasia of lung" or Anencephal\* or Anephr\* or (Anomal\* adj3 (aorta\* or brain? or bone? or bronchus or "circulatory system" or esophagus or "great vein? " or "face bone? " or gallbladder or "bile duct?" or liver? or heart? or larynx? or lung? or "pulmonary arter\*" or "pulmonary venous\*" or rib? or skin? or sternum? or trachea or skull)) or (Aort\* adj (malformation or anomaly)) or Aortostenosis or Arhinencephal\* or Arnold-Chiari or "Arthrogryposis multiplex congenita" or (Atresia adj3 ("foramina of magendie and luschka" or "small intestine")) or (Atresia and tricuspid and valv\*) or (Autosom\* adj3 (delet\* or rearrang\* or translocat\* or anomal\*)) | 18,985 |
| S14 | (Bladder adj (neck or outlet) adj (contracture or narrow\* or sclerosis or stenos?s or stricture)) or (Bladder adj3 (obstruction? or stenos?s)) or (Cartilag\* adj dysplasia) or Cephalocele? or (Chiari adj3 malform\*) or (Chiari and (arnold or malformation?)) or Chondrodys\* or (Chromosome? adj3 (((4 or 5) and delet\*) or trisom\* or "replaced with ring" or dicentr\* or isochromosome?)) or "Chronic obstructive pseudoemphysema" or "Collodion baby" or (Common adj ("arterial trunk?" or truncus\*)) or (Congenital adj (mitral or "cerebral cyst\*" or "diverticulum of esophagus" or hydrocephal\* or hydranencephal\* or malform\*)) or "Cor biloculare" or Craniorachischis\* or Craniosynostosis or "Cranium bifidum" or DILV or "Discordant ventriculoarterial connection? " or "Duplicat\* seen only at prometaphase? " or Dyschondroplas\* or (Ebstein\* adj (malform\* or anomal\*)) or (Ectoderm\* adj3 dysplas\*) or Encephalocele\* or (Epidermo\* and bullo?s\*) or Exencephalocele? or Exomphalos or "F?etal alcohol" or "Fibrogenesis imperfecta ossium" or Gastroschis\* or Hamarto\* or (Harl?quin\* adj3 (ichthyos\* or baby or babies or f?etus\*)) or (Hernia and umbilic\*) or Holo?prosencephal\* or (Ichthyos\* and (congenita\* or f?etalis or lamellar\*)) or (Isomerism adj3 atrial appendage\*) or "Keratosis diffusa fetalis" or (Malformation? adj3 ("cerebral vessel?" or cardi\* or "corpus callosum?" or brain? or aortic or "great vein?" or "facial appear\*" or trachea or liver?)) or Meroanencephal\* or "Metaphyseal dysplasia" or Microdelet\* or "Multiple cartilaginous exostoses" or "Neonatal cardiopath\*" or Omphaloc?ele\* or Osteochondrodysplasia? or Osteodystroph\* or "Osteogenesis imperfecta" or Osteopsathyrosis or "Periostal aplasia" or "Persistent f?et\* circulation" or Pha?oma\* or (Ploid\* and poly) or Polyploid\* or (Potter\* adj (sequence? or disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease?)) or (Prad?r and willi) or Prad?r-willi\* or "Reduction deformit\* of brain?" or "Short rib?" or (Tetralogy adj3 fallot?) or Triploid\* or (Trisom\* adj3 (13 or 18 or d or d1 or e or e1 or "of autosome?")) or "Truncus\* arteri\*" or "Valvula urethralis" | 8,667 |
| S15 | (("Cerebral h?emorrhage?" or "brain damage?") and (birth? adj3 injur\*)) or ((Arachnoid\* or subarachnoid\*) adj (h?emorrhage? or bleed\* or hematoma\*)) or ((Brain? or cerebral) adj3 hypoxi\*) or ((Cardiac or heart?) adj3 (fail\* or insufficienc\*)) or ((Perinatal\* or neonatal\* or birth\*) adj3 asphyxia\*) or "Asphyxia\* neonatorum" or "Cerebral leukomalacia" or (Congenital adj (cytomegalovirus\* or cmv or rubella or infect\* or "vir\* disease?" or toxoplasmos\*)) or HIE or "Hydrop\* fetalis" or "Hypoxic ischemic encephalopathy" or ("Intracerebral h?emorrhage?" adj3 newborn) | 3,547 |
| S16 | ((((Systemic or disseminat\* or visceralis) and (lupus or erythemato\*)) or lupovisceritis) and ((organ\* or system\*) adj3 involve\*)) or ((Cardiovascular or circulat\* or incremental or nonseptic) adj collapse) or ((Gorham\* or gorham-stout\* or "vanish\* bone? " or "phantom bone? " or "disappear\* bone? " or melas or kearns-sayre\* or "osler libman sacks") adj3 (disorder? or disturbance? or dysfunction? or illness\* or sickness\* or syndrome? or disease?)) or ((Mitochondrial adj (encephalomyopath\* or myopath\*)) and "lactic acidosis" and stroke) or ((Pneumogenic or polyangiitis or "necroti?ing respiratory") and granulomatos\*) or ((Retina\* or vitreoretinal) adj dystroph\*) or (Bone and (loss or resorption)) or (Conjunctiva\* adj (concretion\* or degenerat\* or deposit? or pigmentation? or xerosis)) or (Dystroph\* and retina\*) or (Granulomatos\* adj3 polyangiit\*) or MELAS or Myoencephalopath\* or Osteoly\* or "Paralytic strabismus" or Pinguecula or Shock or (Transplant\* and "bone marrow?") or Weg?ner\*) | 58,657 |
| S17 | Palliative\* or Hospice? or "Supportive care" | 59,770 |
| S18 | (Health\* adj (service? or care or resource? or use? or utili?ation)) or ((Aggressi\* or amount? or critical or acute or extensive or terminal\* or "end of life" or end-of-life or EOL) adj3 care) or Emergenc\* or "Good death" or (Hospital adj (use? or utili?ation or visit?)) or Hospitali?ation or (Intensi\* adj3 (care or treatment?)) or "Last month? of life" or "Last year? of life" or "Life support" or "Life sustain\*" or "Pattern of care" or "Place of death" or "Quality of death" or Rehospitali?ation or Resuscitation or "Treatment intensit\*" | 278,747 |
| S19 | S2 or S3 or S4 or S5 or S6 or S7 or S8 or S9 or S10 or S11 or S12 or S13 or S14 or S15 or S16 | 1,247,321 |
| S20 | S1 or S17 or S18 or S19 | 545 |
| S21 | limit S20 to humans | 335 |
| S22 | limit S21 to (chinese or english) | 333 |
| S23 | limit S22 to yr="2010 - 2020" | 241 |
| S24 | limit S23 to age groups= fetus, conception to birth, infant, newborn: birth-1 month, infant: 1-23 months, child, preschool: 2-5 years, child: 6-12 years, adolescent: 13-18 years, adult: 19-44 years | 217 |
| S25 | limit S24 to publication type: clinical trial, doctoral dissertation, journal article, masters thesis, nursing interventions, randomized controlled trial, research | 184 |
| S26 | exclude Medline records | 51 |