

Children's Health Alliance

Note: the table below is part of the (Cincinnati Children's) Children With Special Health Care Needs Identification Project (155 pediatricians/38 practices) which found that 30% of patients have at least one chronic condition when doing just (hospital and practice-based) data claims runs. Thinking this was an over-estimation of those needing focused care management, they reviewed the patients and refined the list based on 15 factors (such as multiple chronic conditions or one chronic condition that was not well-controlled). This resulted in an average of 15% of patient panel identified as needing care management. They divided list into two categories – always included and conditional, meaning only conditional patients needed chart reviews.

| Status | Diagnosis | Codes | | | | | | | Comments |
|---------------|-------------------|--------------|-------------|--------|---------------|--------|-------------|--------|---|
| Include | HIV | 042.00 | 079.53 | | | | | | |
| Include | CARCINOMA | 140.00 | thru | 216.20 | | 217.00 | thru | 239.90 | 08.31.09: Change 228.00 (Hemangioma NOS) to Conditional. - Change 228.01 (Skin/subcu-Hemangioma) to Exclude. - Change 216.10 (Benign eyelid neoplasm) to Conditional 12.21.09 216.30 - 216.90 (benign neoplasm) deleted |
| Include | NEUROFIBROMATOSIS | 237.70 | 237.71 | 237.72 | | | | | |
| Conditional | HYPERTHYROIDISM | 242.90 | 242.91 | | 775.30 | | | | |
| Conditional | HYPOTHYROIDISM | 243.00 | 244.00 | 244.10 | 244.20 | 244.30 | 244.80 | 244.90 | |
| Include | DIABETES | 250.00 | thru | 250.93 | | | | | |

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|-------------|-------------------------------|--------|-------------|--------|--------|--------|-------------|--------|--|
| Include | SCHWACKMAN DIAMOND (SDS) | 251.90 | | | | | | | |
| Include | CHRONIC ENDOCRINE | 253.00 | thru | 253.90 | | 255.00 | thru | 255.90 | |
| Include | PANHYPOPITUITARISM | 253.20 | | | | | | | |
| Include | ADRENAL INSUFFICIENCY | 255.41 | | | | | | | |
| Conditional | Sexual Precocity | 259.10 | | | | | | | 09.01.09 259.10 Added to conditional. |
| | | | | | | | | | |
| Include | RICKETS | 268.00 | 268.10 | 268.20 | 268.90 | | | | |
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| Include | PKU | 270.10 | | | | | | | |
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| | | | | | | | | | |
| Include | CYSTIC FIBROSIS | 277.00 | 277.01 | 277.02 | 277.03 | 277.09 | | | |
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| | | | | | | | | | |
| Include | HUNTER/HURLERS | 277.50 | | | | | | | |
| Conditional | OBESITY | 278.00 | | 278.02 | | | | | |
| Include | OBESITY | | 278.01 | | | | | | 04.27.10: Change from Conditional to Auto Include |
| Include | IMMUNODEFICIENCY DISORDERS | 279.00 | thru | 279.90 | | | | | |
| | | | | | | | | | |
| Include | SICKLE CELL DISEASE | 282.60 | 282.61 | 282.62 | 282.63 | 282.64 | 282.68 | 282.69 | |
| Include | HEMOPHILIA | 286.0 | 286.1 | 286.2 | 286.3 | 286.4 | 286.5 | 286.6 | |
| Include | VON WILLEBRAND DISEASE | 286.40 | | | | | | | |
| | | | | | | | | | |
| Include | PSYCHOSIS | 295.00 | thru | 296.16 | | 296.40 | thru | 298.90 | |
| Include | BIPOLAR DISORDER | 296.00 | thru | 296.16 | | 296.40 | thru | 296.99 | |

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| Conditional | DEPRESSION (ACUTE) | 296.20 | 296.21 | 296.22 | 296.23 | 296.24 | 296.25 | 296.26 | |
| Conditional | DEPRESSION (RECURRENT) | 296.30 | 296.31 | 296.32 | 296.33 | 296.34 | 296.35 | 296.36 | |
| Include | AUTISM | 299.00 | 299.10 | 299.80 | | | | | |
| Include | ASPERGERS | 299.80 | | | | | | | |
| Conditional | MENTAL DISORDERS | 300.00 | thru | 307.00 | | 307.20 | thru | 316.00 | *307.10 (Anorexia nervosa) is auto include. Rest of range is conditional. |
| Conditional | PANIC DISORDER | 300.01 | 300.21 | | | | | | |
| Conditional | ANXIETY DISORDER | 300.00 | thru | 300.90 | | | | | |
| Conditional | OBSESSIVE COMPULSIVE DISORDER | 300.30 | 300.40 | | | | | | |
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| Include | ANOREXIA NERVOSA | 307.10 | | | | | | | |
| Conditional | TIC | 307.20 | 307.21 | 307.22 | 307.23 | | 333.30 | | |
| Conditional | TOURETTE DISEASE | 307.23 | | | | | | | |
| | | | | | | | | | |
| Conditional | ADD | 314.00 | 314.01 | 314.1 | 314.20 | 314.80 | 314.90 | | |
| Conditional | ADHD | 314.01 | | | | | | | |
| Conditional | SPECIFIC LEARNING DISABILITY / LEARNING DIFFICULTIES | 315.00 | 315.01 | 315.02 | 315.09 | 315.10 | 315.20 | 315.31 | |
| Conditional | DYSLEXIA | 315.02 | | 784.61 | | | | | |
| | | | | | | | | | |
| Conditional | SPEECH/LANGUAGE DISORDER | 315.31 | | | | | | | |
| Conditional | EXPRESSIVE SPEECH DELAY | 315.31 | | | | | | | |
| | | | | | | | | | |
| Conditional | MENTAL RETARDATION | 317.00 | 318.00 | | 319.00 | | | | |
| Include | MENTAL RETARDATION | 318.10 | 318.20 | | | | | | |

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| Include | Coats' Syndrome | 362.12 | | | | | | | 02.11.10 362.12 Added to Auto Include (Coats' Syndrome-Exudative Retinopathy) |
| Include | PIGMENTARY RETINAL DYSTROPHY | 362.74 | | | | | | | 07.06.10 Added as alato include |
| Include | VISION LOSS (SEVERE) | 369.00 | thru | 369.90 | | | | | |
| Conditional | NYSTAGMUS | 379.50 | 379.51 | 379.52 | 379.53 | 379.54 | 379.55 | 379.56 | |
| Include | HEARING LOSS (SEVERE) | 389.10 | thru | 389.70 | | | | | 06.19.09: 389.8 and 389.9 (Hearing loss codes) Excluded. |
| Include | CHRONIC CARDIAC DISORDER | | | | | | | | |
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| Include | ANEURYSM | 441.00 | thru | 441.90 | | | | | |
| Conditional | ALLERGIES | 477.00 | 477.10 | 477.20 | 477.80 | 477.90* | 995.3* | | 12.21.09: Delete IF this is the only DX for the patient. |
| Conditional | ASTHMA | 493.00 | thru | 493.92 | | | | | 04.27.10: Identification through asthma registry. |
| Include | CHRONIC RESPIRATORY DISORDER | 518.89 | 519.90 | | | | | | |
| Include | EOSINOPHILIC ESOPHAGITIS | 530.10 | | | | | | | 08.26.10 Added to list as Auto Include |
| | | | | | | | | | |
| Include | CROHN'S DISEASE | 555.00 | 555.10 | 555.20 | 555.90 | | | | |

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|-------------|----------------------------------|--------|-------------|--------|--------|--------|--------|--------|---|
| Include | ULCERATIVE COLITIS | 556.00 | 556.10 | 556.20 | 556.30 | 556.40 | 556.50 | 556.60 | |
| | | | | | | | | | |
| Include | CHRONIC LIVER DISORDER | 571.40 | thru | 573.90 | | | | | |
| Include | CELIAC DISEASE | 579.00 | | | | | | | |
| Include | CHRONIC RENAL DISORDER | 581.00 | thru | 587.00 | | | | | |
| | | | | | | | | | |
| Include | RENAL INSUFFICIENFY | 585.90 | | | | | | | |
| | | | | | | | | | |
| Conditional | VESICO-URETERAL REFLUX | 593.70 | 593.71 | 593.72 | 593.73 | | | | |
| Conditional | DERMATITISAND ECZEMA | 692.00 | 692.90 | | | | | | 04.27.10: Add as Conditional. (Exclude if this is their only DX) |
| | | | | | | | | | |
| Include | LUPUS/SLE | 710.00 | | | | | | | |
| Include | DERMATOMYOSITIS | 710.30 | | | | | | | 07.06.10: Added as Auto Include |
| Include | JUVENILE RHEUMATOID ARTHRITIS | 714.30 | 714.31 | 714.32 | 714.33 | | | | |
| Conditional | MYALGIA AND MYOSITIS, UNSECIFIED | 729.10 | | | | | | | 04.27.10: Added as Conditional |
| Conditional | SCOLIOSIS (ACQUIRED POSTURAL) | 737.00 | thru | 737.90 | | | | | |

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| Include | CONGENITAL ANOMALIES | 740.00 | thru | 743.39 | | 743.41 | thru | 759.90 | <p>Check with Keith to take out the C.A.s that may need to be conditional. & PDA. - 08.18.09: Exclude 752.51 (undescended testis) & 752.52 (retractile testis) - 08.31.09: Change 750.10 (Tongue anomaly NOS) to Conditional. - Change 750.00 (Tongue tied) to Exclude - Change 754.81 (Pectus excavatum) to Conditional. - Change 745.40 (VSD) to Conditional (CHANGE BACK TO AUTO ON 04.27.2010) - Change 752.90 (Genital organ anomaly NOS) to Conditional - Change 752.69 (Penile anomalies NEC) to Conditional. (Now, exclude on 04.27.2010) - Change 755.63 (Congenital hip deformity NEC) to Conditional - Change 755.60 (Lower limb anomaly NOS) to Conditional - Change 754.30 (Cong hip disloc-unilat) to Conditional - Change 752.61 (Hypospadias) to Conditional -</p> |
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| | | | | | | | | | 12.21.09: 743.65 (other anomalies of the lacrimal duct) & 754.61 (pes planus) deleted 04.27.2010 :752.42, (Imperforate hymen) Excluded. 754.10 (torticollis) Excluded. 743.62: (Congenital Eyelid anomaly) Change from Auto to Conditional) |
| include | SPINA BIFIDA | 741.00 | 741.01 | 741.02 | 741.03 | 741.90 | 741.91 | 741.92 | |
| Conditional | COLOBOMA | 743.40 | | | | | | | |
| | | | | | | | | | |
| include | SEPTO-OPTIC DYSPLASIA | 743.90 | | | | | | | |
| include | TETRALOGY OF FALLOT | 745.2 | | | | | | | |
| include | HYPOLASTIC LEFT HEART | 746.70 | | | | | | | |
| include | CHD- CONGENITAL | 746.90 | | | | | | | |
| include | AORTIC ATRESIA/STENOSIS | 747.22 | | | | | | | |
| | | | | | | | | | |
| Include | CLEFT PALATE | 749.00 | thru | 749.25 | | | | | |
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| Include | SCOLIOSIS (CONGENITAL) | 754.20 | | | | | | | |
| Include | LARSEN SYNDROME | 755.80 | | | | | | | |

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| Conditional | GOLDENHAR(*Auto Include. See comments) | 756.00 | | | | | | | 08.31.09 Code 756.00 changed to conditional due to a variety of other conditions that don't warrant Auto Include - See above in Congenital Anomalies |
| | | | | | | | | | |
| Include | EHLER-DANLOS | 756.83 | | | | | | | |
| Include | DOWNS SYNDROME | 758.00 | | | | | | | |
| Include | VCF SYNDROME | 758.32 | | | | | | | |
| Include | TURNER SYNDROME | 758.60 | | | | | | | |
| Include | WILLIAMS SYNDROME | 758.90 | | | | | | | |
| | | | | | | | | | |
| Include | MARFAN'S SYNDROME | 759.82 | | | | | | | |
| Include | FRAGILE X | 759.83 | | | | | | | |
| Include | CORNELIA DE LANGE SYNDROME | 759.89 | | | | | | | |
| Include | BECKWITH-WIEDEMANN | 759.89 | | | | | | | |
| Include | CHARGE SYNDROME | 759.90 | | | | | | | |
| Include | FETAL ALCOHOL SYNDROME | 760.71 | | | | | | | |
| Conditional | PREMATURITY | 765.00 | thru | 765.29 | | | | | |
| Conditional | BRONCHOPULMON DYSPLASIA | 770.70 | | | | | | | |
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| Conditional | SEIZURE | 780.39 | | | | | | | |
| Conditional | ABNORMAL WEIGHT GAIN | 783.10 | | | | | | | 04.27.10: (Abnormal weight gain) Added as conditional |
| Conditional | DEVELOPMENTAL DELAY | 783.40 | 783.42 | | | | | | |

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| Conditional | GROSS MOTOR DELAY | 783.40 | 783.42 | | | | | | |
| Conditional | FAILURE TO THRIVE | 783.41 | | | | | | | |
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| Include | TRAUMATIC BRAIN INJURY-CONCUSSION | 850.11 | thru | 854.50 | | 851.00 | thru | 854.19 | 04.27.10: 85000 excluded (Concussion without loss of consciousness). |
| Conditional | TRAUMATIC BRAIN INJURY- CONCUSSION | 850.99 | | | | | | | 04.27.10: 85090 (Concussion NOS) change from Auto to Conditional). |
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| Conditional | LEAD POISONING | 984.00 | 984.10 | 984.80 | 984.90 | | | | |
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| Conditional | CHILD ABUSE | 995.50 | 995.51 | 995.52 | 995.53 | 995.54 | 995.55 | 995.59 | |
| Conditional | SEXUAL ABUSE | 995.53 | | | | | | | |

Hydrocephalis 331.3, 33.4,

Deaths Attributed to Pediatric Complex Chronic Conditions

Note: This list represents a modification of one used previously in a retrospective longitudinal study of mortality patterns in Washington State, which, in turn, had been based, in part, on studies of hospitalization patterns of children with costly illnesses and with congenital defects. The authors modified the list by including epilepsy and by expanding the range of ICD-9 codes for the subcategories of mental retardation, central nervous system degeneration and disease, and malignancy. Feudner, et al, <http://pediatrics.aappublications.org/content/107/6/399.full.html>

| Diagnosis | Code |
|------------------------------|-------------|
| Human immunodeficiency virus | 42 |
| | |
| Malignancy | 140-0-239.9 |
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Center for Infants and Children with Special Needs Care Coordination Toolkit (appendix 1, pg. 24) Cincinnati Children's Hospital Medical Center, 2004

<http://www.medicalhomeinfo.org/downloads/pdfs/CareCoordinationToolkit06.pdf>

Note: These codes were contributed by the providers who participated in Carl Cooley's 2001 learning collaborative, *Building a Medical Home: Improvement Strategies in Primary Care for Children*

| Diagnosis | Code |
|-----------------|---------|
| HIV | 42.00 |
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| Carcinoma | 140-239 |
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| Hyperthyroidism | 242.90 |
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| Diabetes | 250.00 |

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| Bone and joint anomalies | 259.4 |
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| Amino acid metabolism | 270.0-270.9 |
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| Carbohydrate metabolism | 271.0-271.9 |
| Lipid metabolism | 272.0-272.9 |
| Other metabolic disorders | 275.0 - 275.3 |
| Cystic fibrosis | 277 |
| Other metabolic disorders | 277.2, 277.4, 277.6, 277.8 and 277.9 |
| Storage disorders | 277.3 and 277.5 |
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| Hereditary immunodeficiency | 279.0-279.9 |
| Hereditary Anemias | 282.0-282.4 |
| Sickle cell disease | 282.5-282.6 |
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| Hereditary immunodeficiency | 288.1-288.2 |
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| PKU | 270.10 |
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| Cystic Fibrosis | 277.00 |
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| Obesity | 278.00 |
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| Immunodeficiency Disorders | 279.30 |
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| Sickle Cell Disease | 282.60 |
| Hemophilia | 286.00 |
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| Bipolar Disorder | 296.80 |

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| Central nervous system degeneration and disease | 330.0-337.9 |
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| Infantile Cerebral Palsy | 343.0-343.9 |
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| Epilepsy | 345.0-345.9 |
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| Muscular dystrophies and myopathies | 359.0-359.3 |
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| TIC | 333.30 |
| Wernig-Hoffman | 335.00 |
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| Cerebral Palsy | 343.90 |
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| Epilepsy (General non-Conclusive) | 345.00 |
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| Epileptic Convulsions | 345.10-345.91 |
| Epilepsy (General non-Conclusive) | 345.90 |
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| Muscular Dystrophy | 359.00 |
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| Cardiomyopathies | 425.0-425.4 |
| Conduction disorders and dysrhythmias | 426.0 - 427.4, 427.6 - 427.9 |
| Cardiomyopathies | 429.1 |
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| Hereditary immunodeficiency | 446.1 |
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| Diaphragm and abdominal wall | 553.3 |
| Inflammatory bowel disease | 555.0-556.9 |

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| Vision Loss (Severe) | 369.90 |
| Strabismus | 378.90 |
| Nystagmus | 379.50 |
| Chronic Serious Otitis Media | 381.10 |
| Hearing Loss (Severe) | 389.00 |
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| Allergic Rhinitis | 477.90 |
| Asthma | 493.90 |
| Chronic Respiratory Disorder | 519.90 |
| Gastroesophageal Reflux | 530.10 |
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| Chrohns Disease | 555.90 |

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| Chronic liver disease and cirrhosis | 571.4-571.9 |
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| Chronic renal failure | 585 |
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| Bone and joint disorders | 737.3 |

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| Constipation | 564.00 |
| Chronic Liver Disorder | 571.90 |
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| Chronic Renal Disorder | 582.90 |
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| UTI | 599.00 |
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| Eczema | 692.90 |
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| Acne | 706.10 |
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| Juvenile Rheumatoid Arthritis | 714.30 |
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| Scoliosis (Acquired Postural) | 737.30 |

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| Brain and spinal cord malformations | 740-0-742.9 |
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| Congenital Anomalies | 740-759 |
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| Heart and great vessel malformations | 745.0-747.4 |
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| Respiratory malformations | 748.0-748.9 |
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| Congenital anomalies | 750.3 |
| Congenital anomalies | 751.1-751.3 |
| Congenital anomalies | 751.6 - 751.9 |
| Congenital anomalies | 753.0-753.9 |
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| Coloboma | 743.49 |
| Congenital Dacryostenosis | 743.65 |
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| Scoliosis (Congenital) | 754.20 |
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| Bone and joint anomalies | 756.0 - 756.5 |
| Diaphragm and abdominal wall | 756.6 - 756.7 |
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| Chromosomal anomalies | 758.0 - 758.9 |
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| Other congenital anomalies | 759.7 - 759.9 |
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| Chronic respiratory disease | 770.7 |
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| Fetal Alcohol Syndrome | 760.71 |
| Prematurity | 765.10 |
| Bronchopulmon Dysplasia | 770.70 |
| Cardio Neurogenic Syncope | 780.20 |
| Febrile Seizure | 780.31 |
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| Seizure NOS | 780.39 |
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| Developmental Delay | 783.40 |

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| Post Traumatic Seizures | 780.33 |
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Borderline Intellectual functioning
Hydrocephalus
Microcephaly
Cataracts
Congenital anomaly of the eye
Glaucoma
Diabetic Retinopathy
Arthritis
Osteogenesis Imperfectus
Club Foot
Diplegia
Multiple Sclerosis
Myasthenia Gravis
Paralysis (para-quad-di)
Poliomyelitis
Adjustment Disorders
Conduct Disorder
Oppositional Defiant Disorder
Agoraphobia
Phobias
PTSD
Separation Anxiety Disorder
Bulimia
Impulse control Disorder
Cyclothymic Disorder
Dysthymic Disorder
Personality Disorders (9)
Reactive Attachment Disorder
Psychotic Disorders (5)
Somatoform Disorder
Aplastic Anemia
AIDS
Blood disorder that requires
hospitalization once a month

Childhood Disintegrative Disorder (PDD)
Chronic Granulomatous Disease
Coagulation Defects
Congenital cystic lung
Congenital heart anomaly
Cushings snydrome
Encephalopathy
Fetal drug addiction
Heart murmer, vigorous activity curtailed
Heart disease
Hemophilia
Hypertension
Other Human T-Cell Lymphotropic Viros-III
Kidney Disease
Leukemia
Liver disease
Lupus
Misplaced Facial feature
Organic Brain Syndrome
Pancreatic Disease
PDD-NOS
Rett Disorder
Sarcomas
Shaken Infant Syndrome
Nutritional deficiency