Supplementary Table 2: Diagnoses and ICD9 codes not associated with secondary outcomes present in medically-attended events following live attenuated influenza vaccine in the Marketscan Commercial claims database, 2010-2012

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| **Diagnosis** | **ICD9 Code** | **Frequency** |
| Acute appendicitis without mention of peritonitis | 540.9 | 38 |
| Dehydration | 276.51 | 27 |
| Acute appendicitis with generalized peritonitis | 540 | 17 |
| Functional digestive disorders not elsewhere classified | 564 | 9 |
| Other and unspecified episodic mood disorder | 296.9 | 8 |
| Other disorders of the urethra and urinary tract  | 599 | 8 |
| Major depressive affective disorder, recurrent episode, severe, without mention of psychotic behavior | 296.33 | 7 |
| Other and unspecified noninfectious gastroenteritis and colitis | 558.9 | 7 |
| Acute pyelonephritis | 590.1 | 7 |
| Other pyelonephritis or pyonephrosis not specified as acute or chronic | 590.8 | 7 |
| Other convulsions | 780.39 | 7 |
| Unspecified viral infection | 079.99 | 6 |
| Diabetes with ketoacidosis, type 1, uncontrolled | 250.13 | 6 |
| Epilepsy unspecified | 345.9 | 6 |
| Acute appendicitis with peritoneal abscess | 540.1 | 6 |
| Cellulitis and abscess of leg, except foot | 682.6 | 6 |
| Other and unspecified bipolar disorders | 296.8 | 5 |
| Compression of brain | 348.4 | 5 |
| Nonspecific mesenteric lymphadenitis | 289.2 | 4 |
| Acute tonsillitis | 463 | 4 |
| Universal ulcerative (chronic) colitis | 556.6 | 4 |
| Diseases of pancreas  | 577 | 4 |
| Vesicoureteral reflux | 593.7 | 4 |
| Acute lymphadenitis | 683 | 4 |
| Concussion | 850 | 4 |
| Unspecified septicemia | 038.9 | 3 |
| Attention deficit disorder with hyperactivity | 314.01 | 3 |
| Peritonsillar abscess | 475 | 3 |
| Persistent vomiting | 536.2 | 3 |
| Intestinal obstruction without mention of hernia | 560 | 3 |
| Paralytic ileus | 560.1 | 3 |
| Other constipation | 564.09 | 3 |
| Other cellulitis and abscess | 682 | 3 |
| Closed supracondylar fracture of humerus | 812.41 | 3 |
| Mechanical complication of nervous system device, implant, and graft | 996.2 | 3 |
| Salmonella infection, unspecified | 003.9 | 2 |
| Enteritis due to rotavirus | 008.61 | 2 |
| Colitis, enteritis, and gastroenteritis of presumed infectious origin | 009.1 | 2 |
| Streptococcal sore throat and scarlet fever | 034 | 2 |
| Methicillin suspectible Staphylococcus aureus septicemia | 038.11 | 2 |
| Infectious mononucleosis | 075 | 2 |
| Cat-scratch disease | 078.3 | 2 |
| Hyposmolality and/or hyponatremia | 276.1 | 2 |
| Immune thrombocytopenic purpura | 287.31 | 2 |
| Major depressive disorder single episode | 296.2 | 2 |
| Anorexia nervosa | 307.1 | 2 |
| Oppositional defiant disorder | 313.81 | 2 |
| Obstructive hydrocephalus | 331.4 | 2 |
| Grand mal status | 345.3 | 2 |
| Benign intracranial hypertension | 348.2 | 2 |
| Infective otitis externa | 380.1 | 2 |
| Acute febrile mucocutaneous lymph node syndrome | 446.1 | 2 |
| Chronic or unspecified gastric ulcer with hemorrhage | 531.4 | 2 |
| Appendicitis, unqualified | 541 | 2 |
| Unspecified disorder of liver | 573.9 | 2 |
| Other disorders of gallbladder | 575 | 2 |
| Acute kidney failure, unspecified | 584.9 | 2 |
| Calculus of kidney or ureter | 592 | 2 |
| Calculus of ureter | 592.1 | 2 |
| Other and unspecified ovarian cyst | 620.2 | 2 |
| Cellulitis and abscess of trunk | 682.2 | 2 |
| Cellulitis and abscess of upper arm and forearm | 682.3 | 2 |
| cellulitis and abscess of foot, except toes | 682.7 | 2 |
| Juvenile chronic polyarthritis | 714.3 | 2 |
| Other synovitis and tenosynovitis | 727.09 | 2 |
| Kyphoscoliosis and scoliosis | 737.3 | 2 |
| Syncope and collapse | 780.2 | 2 |
| Symptoms involving nervous and musculoskeletal systems | 781 | 2 |
| Other close skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of conciousness | 803.22 | 2 |
| Closed fracture of shaft or radius with ulna | 813.23 | 2 |
| Injury to liver wihtout mention of open wound into cavity laceration, unspecified | 864.05 | 2 |
| Anaphylactic reaction due to peanuts | 995.61 | 2 |
| Other postoperative infection | 998.59 | 2 |
| Shigellosis, unspecified | 004.9 | 1 |
| Intestinal infection due to clostridium difficile | 008.45 | 1 |
| Intestinal infection due to other organism, not elsewhere classified | 008.8 | 1 |
| Ill-defined intestinal infections | 009 | 1 |
| Pneumococcal septicemia | 038.2 | 1 |
| Toxic shock syndrome | 040.82 | 1 |
| Other specified non-arthropod-borne viral diseases of central nervous system | 049.8 | 1 |
| Dengue | 061 | 1 |
| Sweating fever | 078.2 | 1 |
| Viral and chlamydial infection in conditions classified elsewhere and of unspecified site | 079 | 1 |
| Other venereal diseases due to chlamydia trachomatis | 099.5 | 1 |
| Unspecified infectious and parasitic diseases | 136.9 | 1 |
| Malignant neoplasm of long bones of lower limb | 170.7 | 1 |
| Malignant neoplasm of frontal lobe | 191.1 | 1 |
| Malignant neoplasm of cerebellum nos | 191.6 | 1 |
| Malignant neoplasm of other parts of brain | 191.8 | 1 |
| Malignant neoplasm of brain, unspecified | 191.9 | 1 |
| Lymphoid leukemia | 204 | 1 |
| Benign neoplasm of colon | 211.3 | 1 |
| Lipoma of intra-abdominal organs | 214.3 | 1 |
| Other benign neoplasm of connective and other soft tissue of lower limb, including hip | 215.3 | 1 |
| Benign neoplasm of ovary | 220 | 1 |
| Neoplasms of unspecified nature | 239 | 1 |
| Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled | 250.41 | 1 |
| Other specified hypoglycemia | 251.1 | 1 |
| Hypoglycemia, unspecified | 251.2 | 1 |
| Nutritional marasmus | 261 | 1 |
| Unspecified protein-calorie malnutrition | 263.9 | 1 |
| Disorders of fluid electrolyte and acid-base balance | 276 | 1 |
| Acidosis | 276.2 | 1 |
| Morbid obesity | 278.01 | 1 |
| Iron deficiency anemia, unspecified | 280.9 | 1 |
| Hemolytic-uremic syndrome | 283.11 | 1 |
| Purpura and other hemorrhagic conditions | 287 | 1 |
| Thrombocytopenia, unspecified | 287.5 | 1 |
| Drug induced neutropenia | 288.03 | 1 |
| Lymphadenitis, unspecified, except mesenteric | 289.3 | 1 |
| Major depressive affective disorder, single episode, in partial or unspecified remission | 296.25 | 1 |
| Major depressive disorder recurrent episode | 296.3 | 1 |
| Major depressive affective disorder, recurrent episode, moderate | 296.32 | 1 |
| Major depressive affective disorder, recurrent episode, severe, specified as with psychotic behavior | 296.34 | 1 |
| Bipolar i disorder, most recent episode (or current) depressed | 296.5 | 1 |
| Bipolar i disorder, most recent episode (or current) mixed | 296.6 | 1 |
| Bipolar I disorder, most recent episode (or current) mixed, severe, without mention of psychotic behavior | 296.63 | 1 |
| Other specified episodic mood disorder | 296.99 | 1 |
| Unspecified pervasive developmental disorder | 299.9 | 1 |
| Conversion disorder | 300.11 | 1 |
| Dysthymic disorder | 300.4 | 1 |
| Sleep arousal disorder | 307.46 | 1 |
| Depressive disorder, not elsewhere classified | 311 | 1 |
| Intermittent explosive disorder | 312.34 | 1 |
| Bacterial meningitis | 320 | 1 |
| Pneumococcal meningitis | 320.1 | 1 |
| Intracranial and intraspinal abscess | 324 | 1 |
| Other cerebellar ataxia | 334.3 | 1 |
| Other acute postoperative pain | 338.18 | 1 |
| Epilepsy and recurrent seizures  | 345 | 1 |
| Generalized convulsive epilepsy  | 345.1 | 1 |
| Localization-related (focal) (partial) epilepsy and epileptic syndromes with simple partial seizures | 345.5 | 1 |
| Other forms of epilepsy and recurrent seizures, with intractable epilepsy | 345.81 | 1 |
| Vestibular neuronitis | 386.12 | 1 |
| Unspecified disease of pericardium | 423.9 | 1 |
| Other specified cardiac dysrhythmias | 427.89 | 1 |
| Intracerebral hemorrhage | 431 | 1 |
| Cerebral artery occlusion, unspecified with cerebral infarction | 434.91 | 1 |
| Unspecified transient cerebral ischemia | 435.9 | 1 |
| Supraglottitis unspecified | 464.5 | 1 |
| Retropharyngeal abscess | 478.24 | 1 |
| Empyema | 510 | 1 |
| Other diseases of lung | 518 | 1 |
| Pulmonary eosinophilia | 518.3 | 1 |
| Pulmonary insufficiency following trauma and surgery | 518.5 | 1 |
| Acute respiratory failure | 518.81 | 1 |
| Periapical abscess without sinus | 522.5 | 1 |
| Major anomalies of jaw size, mandibular hypoplasia | 524.04 | 1 |
| Sialoadenitis | 527.2 | 1 |
| Oral aphthae | 528.2 | 1 |
| Gastritis and duodenitis | 535 | 1 |
| Unspecified gastritis and gastroduodenitis | 535.5 | 1 |
| Unspecified functional disorder of stomach | 536.9 | 1 |
| Pylorospasm | 537.81 | 1 |
| Ventral hernia with obstruction | 552.2 | 1 |
| Regional enteritis of large intestine | 555.1 | 1 |
| Regional enteritis of unspecified site | 555.9 | 1 |
| Intestinal or peritoneal adhesions with obstruction (postoperative) (postinfection) | 560.81 | 1 |
| Peritoneal abscess | 567.22 | 1 |
| Other specified disorders of intestine | 569.89 | 1 |
| Cholelithiasis  | 574 | 1 |
| Nephrotic syndrome with unspecified pathological lesion in kidney | 581.9 | 1 |
| Other ureteric obstruction | 593.4 | 1 |
| Torsion of ovary, ovarian pedicle, or fallopian tube | 620.5 | 1 |
| Excessive or frequent menstruation | 626.2 | 1 |
| Other current conditions classifiable elsewhere of mother, postpartum condition or complication | 648.94 | 1 |
| Cellulitis and abscess of other specified sites | 682.8 | 1 |
| Dermatitis due to substances taken internally | 693 | 1 |
| Erythematous conditions  | 695 | 1 |
| Ritter's disease | 695.81 | 1 |
| Lichenification and lichen simplex chronicus | 698.3 | 1 |
| Dermatomyositis | 710.3 | 1 |
| Pyogenic arthritis, pelvic region and thigh | 711.05 | 1 |
| Displacement of thoracic or lumbar intervertebral disc without myelopathy | 722.1 | 1 |
| Enthesopathy of knee | 726.6 | 1 |
| Tenosynovitis of foot and ankle | 727.06 | 1 |
| Disorders of muscle ligament and fascia | 728 | 1 |
| Other disorders of muscle, ligament, and fascia | 728.89 | 1 |
| Pain in limb | 729.5 | 1 |
| Unspecified osteomyelitis, ankle and foot | 730.27 | 1 |
| Nonunion of fracture | 733.82 | 1 |
| Other and unspecified disorders of bone and cartilage | 733.9 | 1 |
| Unequal leg length (acquired) | 736.81 | 1 |
| Other acquired deformity of other parts of limb | 736.89 | 1 |
| Congenital anomalies of genital organs | 752 | 1 |
| Other obstructive defects of renal pelvis and ureter | 753.29 | 1 |
| Congenital musculoskeletal deformities of spine | 754.2 | 1 |
| Congenital subluxation of hip, bilateral | 754.33 | 1 |
| Other congenital deformity of hip (joint) | 755.63 | 1 |
| Anomalies of foot, not elsewhere classified | 755.67 | 1 |
| Other congenital musculoskeletal anomalies | 756 | 1 |
| Transient alteration of awareness | 780.02 | 1 |
| Abnormality of gait | 781.2 | 1 |
| Lack of coordination | 781.3 | 1 |
| Loss of weight | 783.21 | 1 |
| Symptoms involving cardiovascular system | 785 | 1 |
| Other respiratory abnormalities | 786.09 | 1 |
| Bacteremia | 790.7 | 1 |
| Fracture of base of skull | 801 | 1 |
| Closed fracture of lumbar vertebra without mention of spinal cord injury | 805.4 | 1 |
| Closed fracture of one rib | 807.01 | 1 |
| Closed fracture of shaft of humerus | 812.21 | 1 |
| Open fracture of shaft of humerus | 812.31 | 1 |
| Closed fracture of lateral condyle of humerus | 812.42 | 1 |
| Closed fracture of subtrochanteric section of neck of femur | 820.22 | 1 |
| Closed fracture of shaft of femur | 821.01 | 1 |
| Closed fracture of upper end of fibula with tibia | 823.02 | 1 |
| Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, with brief [less than one hour] loss of consciousness | 851.82 | 1 |
| Extradural hemorrhage following injury without mention of open intracranial wound, with no loss of consciousness | 852.41 | 1 |
| Injury to liver without mention of open wound into cavity, laceration, moderate | 864.03 | 1 |
| Injury to spleen without mention of open wound into cavity, massive parenchymal disruption | 865.04 | 1 |
| Injury to other intra-abdominal organs without mention of open wound into cavity, peritoneum | 868.03 | 1 |
| Poisoning by aromatic analgesics, not elsewhere classified | 965.4 | 1 |
| Toxic effect of other specified metals | 985.8 | 1 |
| Child maltreatment syndrome | 995.5 | 1 |
| Mechanical complication due to cardiac pacemaker (electrode) | 996.01 | 1 |
| Other respiratory complications | 997.39 | 1 |
| Other specified complications of procedures not elsewhere classified | 998.89 | 1 |