

Supplemental Information

Special Note: Choosing Wisely is an initiative of the American Board of Internal Medicine (ABIM) Foundation and has not reviewed or endorsed this report.

For all measures:

Patient Type: 0 - Inpatient; 3 - Observation
 Severity Levels: 1, 2, 3 (Minor, Moderate, Major)
 ICU Flag: ICU Flag = N

Achievable Benchmarks of Care (ABC):

ABCs are derived benchmarks that: 1) represent a measurable level of excellence, 2) are attainable, and (3) are derived from data in an objective and reproducible fashion. The ABC for the measure is calculated based on the performance of the top decile, with adjustments for sample size by participant/site.

Asthma Population defined as:

Age at Admit: Age in Years 3 thru 17
 Length of Stay: LOS ≤ 5 days
 Principal Dx (ICD): In Asthma Inclusion Codes list

Asthma Inclusion Codes:

49300	Extrinsic asthma, unspecified
49301	Extrinsic asthma with status asthmaticus
49302	Extrinsic asthma, with (acute) exacerbation
49310	Intrinsic asthma, unspecified
49311	Intrinsic asthma with status asthmaticus
49312	Intrinsic asthma, with (acute) exacerbation
49320	Chronic obstructive asthma, unspecified
49321	Chronic obstructive asthma, with status asthmaticus
49322	Chronic obstructive asthma, with (acute) exacerbation
49381	Exercise induced bronchospasm
49382	Cough variant asthma
49390	Asthma, unspecified, unspecified
49391	Asthma, unspecified type, with status asthmaticus
49392	Asthma, unspecified, with (acute) exacerbation
J4520	Mild intermittent asthma, uncomplicated
J4521	Mild intermittent asthma with (acute) exacerbation
J4522	Mild intermittent asthma with status asthmaticus
J4530	Mild persistent asthma, uncomplicated
J4531	Mild persistent asthma with (acute) exacerbation
J4532	Mild persistent asthma with status asthmaticus
J4540	Moderate persistent asthma, uncomplicated

SUPPLEMENTAL FIGURE 4 PHIS Choosing Wisely measures report card definitions. Source: PHIS database. Dx, diagnosis; ICU, intensive care unit; SARS, severe acute respiratory syndrome.

J4541	Moderate persistent asthma with (acute) exacerbation
J4542	Moderate persistent asthma with status asthmaticus
J4550	Severe persistent asthma, uncomplicated
J4551	Severe persistent asthma with (acute) exacerbation
J4552	Severe persistent asthma with status asthmaticus
J45901	Unspecified asthma with (acute) exacerbation
J45902	Unspecified asthma with status asthmaticus
J45909	Unspecified asthma, uncomplicated
J45990	Exercise induced bronchospasm
J45991	Cough variant asthma
J45998	Other asthma

Chest Radiograph defined as: (Asthma/Bronchiolitis Measure #1)

433011	Chest x-ray
433111	Chest posterior anterior (PA) x-ray
433211	Chest anterior posterior (AP) x-ray
433311	Chest PA and lateral x-ray
433411	Chest AP and lateral x-ray
433511	Chest lateral decubitus x-ray
433611	Chest lateral x-ray
433711	Chest inspiration/expiration x-ray
433911	Other specified chest x-ray

Asthma Exclusions:

- Dx Code (ICD) in Basic Exclusion List for Respiratory (See Appendix A)
- Dx Code (ICD) in Bronchiolitis inclusion codes list (466.11, 466.19, J21.0, J21.1, J21.8, J21.9)
- Dx Code (ICD) in Lower Tract Respiratory Infection inclusion codes list (See below)

Bronchiolitis Population defined as:

Age at Admit: Admit age \geq 1 month and $<$ 1 year

Length of Stay: LOS \leq 5 days

Principal Dx (ICD): In Bronchiolitis Inclusion Codes list

Bronchiolitis Inclusion Codes:

46611	Acute bronchiolitis due to respiratory syncytial virus (RSV)
46619	Acute bronchiolitis due to other infectious organisms
J210	Acute bronchiolitis due to respiratory syncytial virus
J211	Acute bronchiolitis due to human metapneumovirus
J218	Acute bronchiolitis due to other specified organisms
J219	Acute bronchiolitis, unspecified

Relievers defined as: (Bronchiolitis Measure #2)

131321	Epinephrine
181211	Albuterol sulfate

SUPPLEMENTAL FIGURE 4 Continued.

181231	Levalbuterol HCl
181235	Metaproterenol sulfate
181245	Terbutaline sulfate
181251	Pirbuterol acetate
181311	Ipratropium bromide
181315	Albuterol sulfate and ipratropium bromide

Bronchiolitis Exclusions:

- Dx Code (ICD) in Basic Exclusion List for Respiratory (See Appendix A)
- Dx Code (ICD) in Asthma inclusion codes list
- Dx Code (ICD) in Lower Tract Respiratory Infection inclusion codes list (See below)

Lower Respiratory Tract Infection (LRTI) defined as:

Age at Admit: Admit age \geq 1 month and $<$ 2 years
Principal Dx (ICD): In LRTI Inclusion Codes list

Lower Respiratory Tract Infection (LRTI) Inclusion Codes – Principal Dx (ICD):

46611	Acute bronchiolitis due to respiratory syncytial virus (RSV)
46619	Acute bronchiolitis due to other infectious organisms
4800	Pneumonia due to adenovirus
4801	Pneumonia due to respiratory syncytial virus
4802	Pneumonia due to parainfluenza virus
4803	Pneumonia due to SARS-associated coronavirus
4808	Pneumonia due to other virus not elsewhere classified
4809	Viral pneumonia, unspecified
481	Pneumococcal pneumonia [Streptococcus pneumoniae pneumonia]
4820	Pneumonia due to Klebsiella pneumoniae
4821	Pneumonia due to Pseudomonas
4822	Pneumonia due to Hemophilus influenzae [H. influenzae]
48230	Pneumonia due to unspecified Streptococcus
48231	Pneumonia due to Streptococcus, group A
48232	Pneumonia due to Streptococcus, group B
48239	Pneumonia due to other Streptococcus
48240	Pneumonia due to Staphylococcus, unspecified
48241	Methicillin susceptible pneumonia due to Staphylococcus aureus
48242	Methicillin resistant pneumonia due to Staphylococcus aureus
48249	Other Staphylococcus pneumonia
48281	Pneumonia due to anaerobes
48282	Pneumonia due to Escherichia coli [E. coli]
48283	Pneumonia due to other gram-negative bacteria
48284	Legionnaires' disease

48289	Pneumonia due to other specified bacteria
4829	Bacterial pneumonia, unspecified
4830	Pneumonia due to <i>Mycoplasma pneumoniae</i>
4831	Pneumonia due to <i>Chlamydia</i>
4838	Pneumonia due to other specified organism
4841	Pneumonia in cytomegalic inclusion disease
4843	Pneumonia in whooping cough
4845	Pneumonia in anthrax
4846	Pneumonia in aspergillosis
4847	Pneumonia in other systemic mycoses
4848	Pneumonia in other infectious diseases classified elsewhere
485	Bronchopneumonia, organism unspecified
486	Pneumonia, organism unspecified
4870	Influenza with pneumonia
A221	Pulmonary anthrax
A3701	Whooping cough due to <i>Bordetella pertussis</i> with pneumonia
A3711	Whooping cough due to <i>Bordetella parapertussis</i> with pneumonia
A3781	Whooping cough due to other <i>Bordetella</i> species with pneumonia
A3791	Whooping cough, unspecified species with pneumonia
A481	Legionnaires' disease
B250	Cytomegaloviral pneumonitis
B440	Invasive pulmonary aspergillosis
J09X1	Influenza due to identified novel influenza A virus with pneumonia
J1000	Influenza due to other identified influenza virus with unspecified type of pneumonia
J1001	Influenza due to other identified influenza virus with the same other identified influenza virus pneumonia
J1008	Influenza due to other identified influenza virus with other specified pneumonia
J1100	Influenza due to unidentified influenza virus with unspecified type of pneumonia
J1108	Influenza due to unidentified influenza virus with specified pneumonia
J120	Adenoviral pneumonia
J121	Respiratory syncytial virus pneumonia
J122	Parainfluenza virus pneumonia
J123	Human metapneumovirus pneumonia
J1281	Pneumonia due to SARS-associated coronavirus
J1289	Other viral pneumonia
J129	Viral pneumonia, unspecified
J13	Pneumonia due to <i>Streptococcus pneumoniae</i>
J14	Pneumonia due to <i>Hemophilus influenzae</i>
J150	Pneumonia due to <i>Klebsiella pneumoniae</i>
J151	Pneumonia due to <i>Pseudomonas</i>
J1520	Pneumonia due to staphylococcus, unspecified
J15211	Pneumonia due to Methicillin susceptible <i>Staphylococcus aureus</i>

SUPPLEMENTAL FIGURE 4 Continued.

J15212	Pneumonia due to Methicillin resistant Staphylococcus aureus
J1529	Pneumonia due to other staphylococcus
J153	Pneumonia due to streptococcus, group B
J154	Pneumonia due to other streptococci
J155	Pneumonia due to Escherichia coli
J156	Pneumonia due to other aerobic Gram-negative bacteria
J157	Pneumonia due to Mycoplasma pneumoniae
J158	Pneumonia due to other specified bacteria
J159	Unspecified bacterial pneumonia
J160	Chlamydial pneumonia
J168	Pneumonia due to other specified infectious organisms
J17	Pneumonia in diseases classified elsewhere
J180	Bronchopneumonia, unspecified organism
J181	Lobar pneumonia, unspecified organism
J182	Hypostatic pneumonia, unspecified organism
J188	Other pneumonia, unspecified organism
J189	Pneumonia, unspecified organism
J210	Acute bronchiolitis due to respiratory syncytial virus
J211	Acute bronchiolitis due to human metapneumovirus
J218	Acute bronchiolitis due to other specified organisms
J219	Acute bronchiolitis, unspecified

Systemic Steroids defined as: (LRTI Measure #3)

154035	Dexamethasone
154063	Hydrocortisone
154071	Methylprednisolone
154081	Prednisolone
154083	Prednisone

Lower Respiratory Tract Infection (LRTI) Exclusions:

- Dx Code (ICD) in Basic Exclusion List for Respiratory (See Appendix A)
- Dx Code (ICD) in list of Asthma Inclusion codes (See above)

Gastroesophageal Reflux defined as:

Age at Admit: Admit age <= 1 year

Principal Dx (ICD):

530.81	Esophageal Reflux
K21.9	Gastro-esophageal reflux disease without esophagitis

Acid Suppressors defined as: (GER Measure #4)

147200	Proton pump inhibitors, unspecified
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SUPPLEMENTAL FIGURE 4 Continued.

147201	Esomeprazole
147203	Dexlansoprazole
147205	Lansoprazole
147211	Pantoprazole sodium
147215	Omeprazole
147221	Rabeprazole
147229	Other specified proton pump inhibitors
147100	Histamine antagonists
147101	Cimetidine
147105	Famotidine
147111	Rantidine
147115	Nizatidine
147129	Other histamine antagonists

Gastroesophageal (GER) Exclusions – Dx Code (ICD):

261	Nutritional marasmus
262	Other severe protein-calorie malnutrition
2630	Malnutrition of moderate degree
2631	Malnutrition of mild degree
2632	Arrested development following protein-calorie malnutrition
2638	Other protein-calorie malnutrition
2639	Unspecified protein-calorie malnutrition
32720	Organic sleep apnea, unspecified
32721	Primary central sleep apnea
32723	Obstructive sleep apnea (adult) (pediatric)
32727	Central sleep apnea in conditions classified elsewhere
32729	Other organic sleep apnea
53010	Unspecified esophagitis
53011	Reflux esophagitis
53012	Acute esophagitis
53013	Eosinophilic esophagitis
53019	Other esophagitis
53311	Acute peptic ulcer of unspecified site with perforation, with obstruction
53320	Acute peptic ulcer of unspecified site with hemorrhage and perforation, without mention of obstruction
53321	Acute peptic ulcer of unspecified site with hemorrhage and perforation, with obstruction
53330	Acute peptic ulcer of unspecified site without mention of hemorrhage and perforation, without mention of obstruction
53331	Acute peptic ulcer of unspecified site without mention of hemorrhage and perforation, with obstruction
53340	Chronic or unspecified peptic ulcer of unspecified site with hemorrhage, without mention of obstruction
53341	Chronic or unspecified peptic ulcer of unspecified site with hemorrhage, with obstruction
53350	Chronic or unspecified peptic ulcer of unspecified site with perforation, without mention of obstruction

SUPPLEMENTAL FIGURE 4 Continued.

53351	Chronic or unspecified peptic ulcer of unspecified site with perforation, with obstruction
53360	Chronic or unspecified peptic ulcer of unspecified site with hemorrhage and perforation, without mention of obstruction
53361	Chronic or unspecified peptic ulcer of unspecified site with hemorrhage and perforation, with obstruction
53370	Chronic peptic ulcer of unspecified site without mention of hemorrhage or perforation, without mention of obstruction
53371	Chronic peptic ulcer of unspecified site without mention of hemorrhage or perforation, with obstruction
53390	Peptic ulcer of unspecified site, unspecified as acute or chronic, without mention of hemorrhage or perforation, without mention of obstruction
53391	Peptic ulcer of unspecified site, unspecified as acute or chronic, without mention of hemorrhage or perforation, with obstruction
53500	Acute gastritis, without mention of hemorrhage
53501	Acute gastritis, with hemorrhage
53510	Atrophic gastritis, without mention of hemorrhage
53511	Atrophic gastritis, with hemorrhage
53520	Gastric mucosal hypertrophy, without mention of hemorrhage
53521	Gastric mucosal hypertrophy, with hemorrhage
53530	Alcoholic gastritis, without mention of hemorrhage
53531	Alcoholic gastritis, with hemorrhage
53540	Other specified gastritis, without mention of hemorrhage
53541	Other specified gastritis, with hemorrhage
53550	Unspecified gastritis and gastroduodenitis, without mention of hemorrhage
53551	Unspecified gastritis and gastroduodenitis, with hemorrhage
53560	Duodenitis, without mention of hemorrhage
53561	Duodenitis, with hemorrhage
53570	Eosinophilic gastritis, without mention of hemorrhage
53571	Eosinophilic gastritis, with hemorrhage
77081	Primary apnea of newborn
77082	Other apnea of newborn
77934	Failure to thrive in newborn
78051	Insomnia with sleep apnea, unspecified
78053	Hypersomnia with sleep apnea, unspecified
78057	Unspecified sleep apnea
78341	Failure to thrive
78603	Apnea
79982	Apparent life threatening event in infant
E41	Nutritional marasmus
E42	Marasmic kwashiorkor
E43	Unspecified severe protein-calorie malnutrition
E440	Moderate protein-calorie malnutrition
E441	Mild protein-calorie malnutrition
E45	Retarded development following protein-calorie malnutrition
E46	Unspecified protein-calorie malnutrition

SUPPLEMENTAL FIGURE 4 Continued.

G4730	Sleep apnea, unspecified
G4731	Primary central sleep apnea
G4733	Obstructive sleep apnea (adult) (pediatric)
G4737	Central sleep apnea in conditions classified elsewhere
G4739	Other sleep apnea
K200	Eosinophilic esophagitis
K208	Other esophagitis
K209	Esophagitis, unspecified
K210	Gastro-esophageal reflux disease with esophagitis
K270	Acute peptic ulcer, site unspecified, with hemorrhage
K271	Acute peptic ulcer, site unspecified, with perforation
K272	Acute peptic ulcer, site unspecified, with both hemorrhage and perforation
K273	Acute peptic ulcer, site unspecified, without hemorrhage or perforation
K274	Chronic or unspecified peptic ulcer, site unspecified, with hemorrhage
K275	Chronic or unspecified peptic ulcer, site unspecified, with perforation
K276	Chronic or unspecified peptic ulcer, site unspecified, with both hemorrhage and perforation
K277	Chronic peptic ulcer, site unspecified, without hemorrhage or perforation
K279	Peptic ulcer, site unspecified, unspecified as acute or chronic, without hemorrhage or perforation
K2900	Acute gastritis without bleeding
K2901	Acute gastritis with bleeding
K2920	Alcoholic gastritis without bleeding
K2921	Alcoholic gastritis with bleeding
K2930	Chronic superficial gastritis without bleeding
K2931	Chronic superficial gastritis with bleeding
K2940	Chronic atrophic gastritis without bleeding
K2941	Chronic atrophic gastritis with bleeding
K2950	Unspecified chronic gastritis without bleeding
K2951	Unspecified chronic gastritis with bleeding
K2960	Other gastritis without bleeding
K2961	Other gastritis with bleeding
K2970	Gastritis, unspecified, without bleeding
K2971	Gastritis, unspecified, with bleeding
K2980	Duodenitis without bleeding
K2981	Duodenitis with bleeding
K2990	Gastroduodenitis, unspecified, without bleeding
K2991	Gastroduodenitis, unspecified, with bleeding
K5281	Eosinophilic gastritis or gastroenteritis
P283	Primary sleep apnea of newborn
P284	Other apnea of newborn
P926	Failure to thrive in newborn
R0681	Apnea, not elsewhere classified

SUPPLEMENTAL FIGURE 4 Continued.

- R6251 Failure to thrive (child)
R6813 Apparent life threatening event in infant (ALTE)

Appendix A: Basic Exclusion List for Respiratory

- 261 Nutritional marasmus
262 Other severe protein-calorie malnutrition
2630 Malnutrition of moderate degree
2631 Malnutrition of mild degree
2638 Other protein-calorie malnutrition
2639 Unspecified protein-calorie malnutrition
2734 Alpha-1-antitrypsin deficiency
2762 Acidosis
27700 Cystic fibrosis without mention of meconium ileus
27701 Cystic fibrosis with meconium ileus
27702 Cystic fibrosis with pulmonary manifestations
27703 Cystic fibrosis with gastrointestinal manifestations
27709 Cystic fibrosis with other manifestations
317 Mild intellectual disabilities
3180 Moderate intellectual disabilities
3181 Severe intellectual disabilities
3182 Profound intellectual disabilities
319 Unspecified intellectual disabilities
32720 Organic sleep apnea, unspecified
32721 Primary central sleep apnea
32723 Obstructive sleep apnea (adult) (pediatric)
32727 Central sleep apnea in conditions classified elsewhere
32729 Other organic sleep apnea
3430 Diplegic infantile cerebral palsy
3431 Hemiplegic infantile cerebral palsy
3432 Quadriplegic infantile cerebral palsy
3433 Monoplegic infantile cerebral palsy
3434 Infantile hemiplegia
3438 Other specified infantile cerebral palsy
3439 Infantile cerebral palsy, unspecified
3481 Anoxic brain damage
34830 Encephalopathy, unspecified
34831 Metabolic encephalopathy
34839 Other encephalopathy
3489 Unspecified condition of brain
490 Bronchitis, not specified as acute or chronic

496	Chronic airway obstruction, not classified elsewhere
5111	Pleurisy with effusion, with mention of a bacterial cause other than tuberculosis
5119	Unspecified pleural effusion
51661	Neuroendocrine cell hyperplasia of infancy
51662	Pulmonary interstitial glycogenosis
51663	Surfactant mutations of the lung
51664	Alveolar capillary dysplasia with vein misalignment
51669	Other interstitial lung diseases of childhood
5168	Other specified alveolar and parietoalveolar pneumonopathies
5169	Unspecified alveolar and parietoalveolar pneumonopathy
51881	Acute respiratory failure
51882	Other pulmonary insufficiency, not elsewhere classified
51883	Chronic respiratory failure
51884	Acute and chronic respiratory failure
51889	Other diseases of lung not classified elsewhere
51911	Acute bronchospasm
52400	Unspecified anomaly of jaw size
52401	Maxillary hyperplasia
52402	Mandibular hyperplasia
52403	Maxillary hypoplasia
52404	Mandibular hypoplasia
52405	Macrogenia
52406	Microgenia
52407	Excessive tuberosity of jaw
52409	Other specified anomaly of jaw size
52410	Unspecified anomaly of relationship of jaw to cranial base
52411	Maxillary asymmetry
52412	Other jaw asymmetry
52419	Other specified anomaly of relationship of jaw to cranial base
7450	Common truncus
74510	Complete transposition of great vessels
74511	Double outlet right ventricle
74512	Corrected transposition of great vessels
74519	Other transposition of great vessels
7452	Tetralogy of Fallot
7453	Common ventricle
7454	Ventricular septal defect
7455	Ostium secundum type atrial septal defect
74560	Endocardial cushion defect, unspecified type
74561	Ostium primum defect
74569	Other endocardial cushion defects

SUPPLEMENTAL FIGURE 4 Continued.

7457	Cor biloculare
7458	Other bulbus cordis anomalies and anomalies of cardiac septal closure
7459	Unspecified defect of septal closure
74600	Congenital pulmonary valve anomaly, unspecified
74601	Atresia of pulmonary valve, congenital
74602	Stenosis of pulmonary valve, congenital
74609	Other congenital anomalies of pulmonary valve
7461	Tricuspid atresia and stenosis, congenital
7462	Ebstein's anomaly
7463	Congenital stenosis of aortic valve
7464	Congenital insufficiency of aortic valve
7465	Congenital mitral stenosis
7466	Congenital mitral insufficiency
7467	Hypoplastic left heart syndrome
74681	Subaortic stenosis, congenital
74682	Cor triatriatum
74683	Infundibular pulmonic stenosis, congenital
74684	Obstructive anomalies of heart, congenital, not elsewhere classified
74685	Coronary artery anomaly, congenital
74686	Congenital heart block
74687	Malposition of heart and cardiac apex
74689	Other specified congenital anomalies of heart
7469	Unspecified congenital anomaly of heart
7470	Patent Ductus Arteriosus
74710	Coarctation of aorta (preductal) (postductal)
74720	Congenital anomaly of aorta, unspecified
74860	Congenital anomaly of lung, unspecified
74869	Other congenital anomalies of lung
74900	Cleft palate, unspecified
74901	Unilateral, unspecified
74902	Cleft palate, unilateral, incomplete
74903	Cleft palate, bilateral, complete
74904	Cleft palate, bilateral, incomplete
74910	Cleft lip, unspecified
74911	Cleft lip, unilateral, complete
74912	Cleft lip, unilateral, incomplete
74913	Cleft lip, bilateral, complete
74914	Cleft lip, bilateral, incomplete
74920	Cleft palate with cleft lip, unspecified
74921	Cleft palate with cleft lip, unilateral, complete
74922	Cleft palate with cleft lip, unilateral, incomplete

74923	Cleft palate with cleft lip, bilateral, complete
74924	Cleft palate with cleft lip, bilateral, incomplete
74925	Other combinations of cleft palate with cleft lip
7560	Congenital anomalies of skull and face bones
7678	Other specified birth trauma
76870	Hypoxic-ischemic encephalopathy, unspecified
76871	Mild hypoxic-ischemic encephalopathy
76872	Moderate hypoxic-ischemic encephalopathy
76873	Severe hypoxic-ischemic encephalopathy
7707	Chronic respiratory disease arising in the perinatal period
77081	Primary apnea of newborn
77082	Other apnea of newborn
77934	Failure to thrive in newborn
78051	Insomnia with sleep apnea, unspecified
78053	Hypersomnia with sleep apnea, unspecified
78057	Unspecified sleep apnea
78341	Failure to thrive
78603	Apnea
V440	Tracheostomy status
V550	Attention to tracheostomy
E41	Nutritional marasmus
E42	Marasmic kwashiorkor
E43	Unspecified severe protein-calorie malnutrition
E440	Moderate protein-calorie malnutrition
E441	Mild protein-calorie malnutrition
E46	Unspecified protein-calorie malnutrition
E840	Cystic fibrosis with pulmonary manifestations
E8411	Meconium ileus in cystic fibrosis
E8419	Cystic fibrosis with other intestinal manifestations
E848	Cystic fibrosis with other manifestations
E849	Cystic fibrosis, unspecified
E872	Acidosis
E8801	Alpha-1-antitrypsin deficiency
F70	Mild intellectual disabilities
F71	Moderate intellectual disabilities
F72	Severe intellectual disabilities
F73	Profound intellectual disabilities
F78	Other intellectual disabilities
F79	Unspecified intellectual disabilities
G4730	Sleep apnea, unspecified
G4731	Primary central sleep apnea

SUPPLEMENTAL FIGURE 4 Continued.

G4733	Obstructive sleep apnea (adult) (pediatric)
G4737	Central sleep apnea in conditions classified elsewhere
G4739	Other sleep apnea
G800	Spastic quadriplegic cerebral palsy
G801	Spastic diplegic cerebral palsy
G802	Spastic hemiplegic cerebral palsy
G803	Athetoid cerebral palsy
G804	Ataxic cerebral palsy
G808	Other cerebral palsy
G809	Cerebral palsy, unspecified
G931	Anoxic brain damage, not elsewhere classified
G9340	Encephalopathy, unspecified
G9341	Metabolic encephalopathy
G9349	Other encephalopathy
G939	Disorder of brain, unspecified
I6783	Posterior reversible encephalopathy syndrome
J40	Bronchitis, not specified as acute or chronic
J449	Chronic obstructive pulmonary disease, unspecified
J80	Acute respiratory distress syndrome
J8409	Other alveolar and parieto-alveolar conditions
J8483	Surfactant mutations of the lung
J84841	Neuroendocrine cell hyperplasia of infancy
J84842	Pulmonary interstitial glycogenosis
J84843	Alveolar capillary dysplasia with vein misalignment
J84848	Other interstitial lung diseases of childhood
J8489	Other specified interstitial pulmonary diseases
J849	Interstitial pulmonary disease, unspecified
J90	Pleural effusion, not elsewhere classified
J918	Pleural effusion in other conditions classified elsewhere
J9600	Acute respiratory failure, unspecified whether with hypoxia or hypercapnia
J9601	Acute respiratory failure with hypoxia
J9602	Acute respiratory failure with hypercapnia
J9610	Chronic respiratory failure, unspecified whether with hypoxia or hypercapnia
J9611	Chronic respiratory failure with hypoxia
J9612	Chronic respiratory failure with hypercapnia
J9620	Acute and chronic respiratory failure, unspecified whether with hypoxia or hypercapnia
J9621	Acute and chronic respiratory failure with hypoxia
J9622	Acute and chronic respiratory failure with hypercapnia
J9690	Respiratory failure, unspecified, unspecified whether with hypoxia or hypercapnia
J9691	Respiratory failure, unspecified with hypoxia
J9692	Respiratory failure, unspecified with hypercapnia

J9801	Acute bronchospasm
J984	Other disorders of lung
M2600	Unspecified anomaly of jaw size
M2601	Maxillary hyperplasia
M2602	Maxillary hypoplasia
M2603	Mandibular hyperplasia
M2604	Mandibular hypoplasia
M2605	Macrogenia
M2606	Microgenia
M2607	Excessive tuberosity of jaw
M2609	Other specified anomalies of jaw size
M2610	Unspecified anomaly of jaw-cranial base relationship
M2611	Maxillary asymmetry
M2612	Other jaw asymmetry
M2619	Other specified anomalies of jaw-cranial base relationship
P150	Birth injury to liver
P151	Birth injury to spleen
P152	Sternomastoid injury due to birth injury
P153	Birth injury to eye
P154	Birth injury to face
P155	Birth injury to external genitalia
P158	Other specified birth injuries
P159	Birth injury, unspecified
P270	Wilson-Mikity syndrome
P271	Bronchopulmonary dysplasia originating in the perinatal period
P278	Other chronic respiratory diseases originating in the perinatal period
P279	Unspecified chronic respiratory disease originating in the perinatal period
P283	Primary sleep apnea of newborn
P284	Other apnea of newborn
P9160	Hypoxic ischemic encephalopathy [HIE], unspecified
P9161	Mild hypoxic ischemic encephalopathy [HIE]
P9162	Moderate hypoxic ischemic encephalopathy [HIE]
P9163	Severe hypoxic ischemic encephalopathy [HIE]
P926	Failure to thrive in newborn
Q200	Common arterial trunk
Q201	Double outlet right ventricle
Q202	Double outlet left ventricle
Q203	Discordant ventriculoarterial connection
Q204	Double inlet ventricle
Q205	Discordant atrioventricular connection
Q208	Other congenital malformations of cardiac chambers and connections

SUPPLEMENTAL FIGURE 4 Continued.

Q209	Congenital malformation of cardiac chambers and connections, unspecified
Q210	Ventricular septal defect
Q211	Atrial septal defect
Q212	Atrioventricular septal defect
Q213	Tetralogy of Fallot
Q214	Aortopulmonary septal defect
Q218	Other congenital malformations of cardiac septa
Q219	Congenital malformation of cardiac septum, unspecified
Q220	Pulmonary valve atresia
Q221	Congenital pulmonary valve stenosis
Q222	Congenital pulmonary valve insufficiency
Q223	Other congenital malformations of pulmonary valve
Q225	Ebstein's anomaly
Q226	Hypoplastic right heart syndrome
Q228	Other congenital malformations of tricuspid valve
Q229	Congenital malformation of tricuspid valve, unspecified
Q230	Congenital stenosis of aortic valve
Q231	Congenital insufficiency of aortic valve
Q232	Congenital mitral stenosis
Q233	Congenital mitral insufficiency
Q234	Hypoplastic left heart syndrome
Q238	Other congenital malformations of aortic and mitral valves
Q239	Congenital malformation of aortic and mitral valves, unspecified
Q240	Dextrocardia
Q241	Levocardia
Q242	Cor triatriatum
Q243	Pulmonary infundibular stenosis
Q244	Congenital subaortic stenosis
Q245	Malformation of coronary vessels
Q246	Congenital heart block
Q248	Other specified congenital malformations of heart
Q249	Congenital malformation of heart, unspecified
Q250	Patent ductus arteriosus
Q251	Coarctation of aorta
Q252	Atresia of aorta
Q253	Supravalvular aortic stenosis
Q254	Other congenital malformations of aorta
Q331	Accessory lobe of lung
Q335	Ectopic tissue in lung
Q338	Other congenital malformations of lung
Q339	Congenital malformation of lung, unspecified

Q351	Cleft hard palate
Q353	Cleft soft palate
Q357	Cleft uvula
Q359	Cleft palate, unspecified
Q360	Cleft lip, bilateral
Q361	Cleft lip, median
Q369	Cleft lip, unilateral
Q370	Cleft hard palate with bilateral cleft lip
Q371	Cleft hard palate with unilateral cleft lip
Q372	Cleft soft palate with bilateral cleft lip
Q373	Cleft soft palate with unilateral cleft lip
Q374	Cleft hard and soft palate with bilateral cleft lip
Q375	Cleft hard and soft palate with unilateral cleft lip
Q378	Unspecified cleft palate with bilateral cleft lip
Q379	Unspecified cleft palate with unilateral cleft lip
Q750	Craniosynostosis
Q752	Hypertelorism
Q758	Other specified congenital malformations of skull and face bones
Q759	Congenital malformation of skull and face bones, unspecified
R0681	Apnea, not elsewhere classified
R6251	Failure to thrive (child)
Z430	Encounter for attention to tracheostomy
Z930	Tracheostomy status

SUPPLEMENTAL FIGURE 4 Continued.