Pediatric Health Information System (PHIS)

[©]Choosing Wisely Measures Report Card Definitions

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:Inpatient/Observation or ED Visit (Defined by the prompt)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 <= 3 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
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 >= 1 month and < 1 year
Length of Stay:	LOS <= 3 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)

- 131321Epinephrine181211Albuterol sulfate181231Levalbuterol HCI181235Metaproterenol sulfate
- 181245Terbutaline 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 >= 1 month and < 2 years
Length of Stay:	LOS <= 3 days
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 Mycoplasma pneumoniae
4831	Pneumonia due to Chlamydia
4838 Pne	eumonia due to other specified organism 4841
Pneumon	ia in cytomegalic inclusion disease 4843
Pneumon	ia 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 Bordetella pertussis with pneumonia
A3711	Whooping cough due to Bordetella parapertussis with pneumonia
A3781	Whooping cough due to other Bordetella 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 Streptococcus pneumoniae

J14 Pneumonia due to Hemophilus influenzae J150 Pneumonia due to Klebsiella pneumoniae Pneumonia due to Pseudomonas J151 J1520 Pneumonia due to staphylococcus, unspecified J15211 Pneumonia due to Methicillin susceptible Staphylococcus aureus 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)

154035Dexamethasone154063Hydrocortisone154071Methylprednisolone154081Prednisolone154083Prednisone

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</th>Length of Stay:LOS <= 3 days</th>

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
- 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
- 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
78055	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
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
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 O	rganic 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 disases 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	
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

52419Other specified anomaly of relationship of jaw to cranial base7450Common truncus74510Complete transposition of great vessels74511Double outlet right ventricle74512Corrected transposition of great vessels74513Other transposition of great vessels7452Tetralogy of Fallot7453Common ventricle 7454 Ventricular septaldefect74560Endocardial cushion defect, unspecified type74561Ostium secundum type atrial septal defect74562Ostium secundum type atrial septal defect74563Ostium primum defect74564Other endocardial cushion defects7455Other bulbus cordis anomalies and anomalies of cardiac septal closure74560Congenital pulmonary valve, congenital74600Congenital pulmonary valve, congenital74601Atresia of pulmonary valve, congenital74602Stenosis of pulmonary valve, congenital74603Other congenital anomalies of pulmonary valve7461Tricuspid atresia and stenosis, congenital7463Congenital insufficiency7464Congenital insufficiency7465Congenital miral insufficiency7466Congenital miral insufficiency7467Hypoplastic left heart syndrome7468Congenital miral insufficiency7464Obstructive anomalies of heart, ongenital7468Congenital miral insufficiency7464Obstructive anomalies of heart, ongenital7468Coronary artery anomaly, co	52412	Other jaw asymmetry
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74609Other congenital anomalies of pulmonary valve7461Tricuspid atresia and stenosis, congenital 7462 Ebstein's anomaly7463Congenital stenosis of aortic valve7464Congenital insufficiency of aortic valve7465Congenital mitral stenosis7466Congenital mitral stenosis7467Hypoplastic left heart syndrome74681Subaortic stenosis, congenital74682Cor triatriatum74683Infundibular pulmonic stenosis, congenital, not elsewhere classified74684Obstructive anomalies of heart, congenital, not elsewhere classified74685Coronary artery anomaly, congenital74686Congenital heart block74687Malposition of heart and cardiac apex74689Other specified congenital anomalies of heart7469Unspecified congenital anomaly of heart7470Patent Ductus Areteriosus74710Coarctation of aorta (preductal) (postductal)	74601	Atresia of pulmonary valve, congenital
7461Tricuspid atresia and stenosis, congenital 7462 Ebstein's anomaly7463Congenital stenosis of aortic valve7464Congenital insufficiency of aortic valve7465Congenital mitral stenosis7466Congenital mitral stenosis7467Hypoplastic left heart syndrome74681Subaortic stenosis, congenital74682Cor triatriatum74683Infundibular pulmonic stenosis, congenital74684Obstructive anomalies of heart, congenital, not elsewhere classified74685Coronary artery anomaly, congenital74686Congenital heart block74687Malposition of heart and cardiac apex74689Other specified congenital anomalies of heart7469Unspecified congenital anomaly of heart7470Patent Ductus Areteriosus74710Coarctation of aorta (preductal) (postductal)	74602	Stenosis of pulmonary valve, congenital
Ebstein's anomaly7463Congenital stenosis of aortic valve7464Congenital insufficiency of aortic valve7465Congenital mitral stenosis7466Congenital mitral stenosis7467Hypoplastic left heart syndrome74681Subaortic stenosis, congenital74682Cor triatriatum74683Infundibular pulmonic stenosis, congenital, not elsewhere classified74684Obstructive anomalies of heart, congenital, not elsewhere classified74685Coronary artery anomaly, congenital74686Congenital heart block74687Malposition of heart and cardiac apex74689Other specified congenital anomalies of heart7470Patent Ductus Areteriosus74710Coarctation of aorta (preductal) (postductal)	74609	Other congenital anomalies of pulmonary valve
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 Subaortic stenosis, congenital Cor triatriatum Infundibular pulmonic stenosis, congenital Obstructive anomalies of heart, congenital, not elsewhere classified Coronary artery anomaly, congenital Congenital heart block Congenital heart block Malposition of heart and cardiac apex Malposition of heart anomalies of heart Unspecified congenital anomalies of heart Unspecified congenital anomaly of heart Patent Ductus Areteriosus Coarctation of aorta (preductal) (postductal) 	7466	Congenital mitral insufficiency
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 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 Areteriosus 74710 Coarctation of aorta (preductal) (postductal) 	74681	Subaortic 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 Areteriosus 74710 Coarctation of aorta (preductal) (postductal) 		Cor triatriatum
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 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 Areteriosus 74710 Coarctation of aorta (preductal) (postductal) 	74684	Obstructive anomalies of heart, congenital, not elsewhere classified
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 74689 Other specified congenital anomalies of heart 7469 Unspecified congenital anomaly of heart 7470 Patent Ductus Areteriosus 74710 Coarctation of aorta (preductal) (postductal) 	74686	Congenital heart block
 7469 Unspecified congenital anomaly of heart 7470 Patent Ductus Areteriosus 74710 Coarctation of aorta (preductal) (postductal) 		
7470 Patent Ductus Areteriosus74710 Coarctation of aorta (preductal) (postductal)	74689	
74710 Coarctation of aorta (preductal) (postductal)	7469	
	7470	
74720 Congenital anomaly of aorta, unspecified		
	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 E8419	Meconium ileus in cystic fibrosis 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
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
16783	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 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

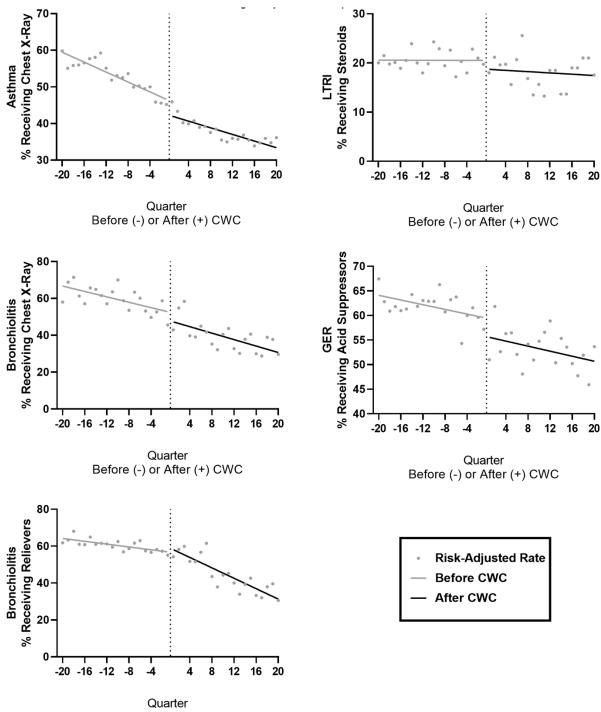
Q244	Congenital subaortic stenosis
Q245	Malformation of coronary vessels
Q246	Congenital heart block
Q248	Other specified congenital malformations of heart
Q249	Congenital malformation of heart, unspecified
Q250	Patent ductus arteriosus
Q251	Coarctation of aorta
Q252	Atresia of aorta
Q253	Supravalvular 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

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	p (Trend)
Asthma											
Chest radiograph	52.8 (51.9, 53.7)	53.6 (52.8, 54.5)	48.5 (47.6 <i>,</i> 49.4)	45.9 (45.1 <i>,</i> 46.8)	42.4 (41.5 <i>,</i> 43.2)	38 (37.2 <i>,</i> 38.9)	35.7 (34.9 <i>,</i> 36.5)	32.4 (31.6 <i>,</i> 33.3)	32.5 (31.7 <i>,</i> 33.3)	32 (31.2, 32.8)	<.001
Bronchiolitis											
Chest radiograph	58.4 (57.3, 59.5)	56.9 (55.8 <i>,</i> 58)	55.8 (54.8 <i>,</i> 56.9)	51.5 (50.4, 52.5)	45.8 (44.8 <i>,</i> 46.8)	40 (39, 41)	36.8 (35.7, 37.9)	30.9 (30, 31.9)	28.3 (27.4, 29.2)	26.9 (26.1 <i>,</i> 27.8)	<.001
Relievers	64 (62.8, 65.1)	63.4 (62.3 <i>,</i> 64.5)	62.9 (61.8 <i>,</i> 64)	60.8 (59.8, 61.9)	58.9 (57.8, 59.9)	56.8 (55.8, 57.9)	51.9 (50.7, 53)	38.3 (37.2 <i>,</i> 39.3)	31.2 (30.3, 32.1)	27.4 (26.6, 28.3)	<.001
Lower Respir	atory Tract Infect	ion	·								
Systemic steroids	15.1 (13.8, 16.4)	14.3 (13.1 <i>,</i> 15.6)	14.8 (13.5 <i>,</i> 16.1)	15.8 (14.4, 17.2)	15.5 (14, 16.9)	14.8 (13.4, 16.2)	13.5 (12, 14.9)	10.6 (9.4, 11.9)	12 (10.7 <i>,</i> 13.2)	12.2 (10.8, 13.5)	<.001
GER											
Acid Suppressors	63 (60.8, 65.3)	62.2 (59.9 <i>,</i> 64.5)	62.3 (59.9 <i>,</i> 64.7)	60.7 (58.1 <i>,</i> 63.3)	59.3 (56.5 <i>,</i> 62.2)	56.6 (53.5 <i>,</i> 59.7)	51.5 (48.3 <i>,</i> 54.7)	52.6 (49.1 <i>,</i> 56)	48.9 (45.4 <i>,</i> 52.4)	48.9 (45.3 <i>,</i> 52.5)	<.001

Table A. Aggregate trends in utilization of low-value services (average adjusted percent (95% CI)) over five years before (2008-2012) and after (2013-2017) publication of CWC-PHM recommendations.

Footnote:

p(Trend) - p-value for overall trend over 10 years. The values are adjusted for patient demographic and clinical factors that were found to be significantly different (p<0.01, Table 2) before and after the intervention on bivariate analyses



Before (-) or After (+) CWC

Figure 1- supplemental online graphic.

Trends in average utilization rates of low-value services over five years before and after CWC.

Footnote:

Y-axes: each dot represents risk adjusted average utilization rate. X-axes: time in 3 months intervals (quarters) before and after CWC.