

# Prevention Quality Indicator in Emergency Department Settings 02 (PQE 02) Visits for Chronic Ambulatory Care Sensitive Conditions

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Area-Level Indicator

Type of Score: Rate

## Prepared by:

Agency for Healthcare Research and Quality

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## DESCRIPTION

Emergency Department (ED) visits for chronic ambulatory care sensitive conditions, for individuals ages 40 years and older, per 100,000 population. Includes asthma, chronic obstructive pulmonary disease (COPD), heart failure, acute diabetic hyper- and hypoglycemic complications, and chronic kidney disease. A first-listed diagnosis of lower respiratory infection with a secondary diagnosis of COPD or asthma is also included.

*[NOTE: The software provides the rate per population. However, common practice reports the measure as per 100,000 population. The user must multiply the rate obtained from the software by 100,000 to report visits per 100,000 population.]*

## NUMERATOR

ED visits of patients ages 40 years and older residing in a community who visit any ED (within state) with ANY of the following first-listed diagnoses: Asthma (**ASTHMA\***), COPD (**COPD\***), heart failure (**HEARTFAILURE\***), acute diabetic hyper- and hypoglycemic complications (**DMSTCX\***), or chronic kidney disease (**CKD\***). Also included is a first-listed diagnosis of lower respiratory infection (**LOWERRESPINFECTION\***) with a secondary diagnosis of COPD or asthma.

## NUMERATOR EXCLUSIONS

Exclude visits:

- With missing gender (SEX=missing), age (AGE=missing), first-listed diagnosis (DX1=missing), or county (PSTCO=missing)

## **DENOMINATOR**

Population ages 40 years and older in the metropolitan area<sup>1</sup> or county. Visits in the numerator are assigned to the denominator based on the metropolitan area or county of the patient residence, not the metropolitan area or county of the hospital where the discharge occurred.

<sup>1</sup> The term “metropolitan area” (MA) was adopted by the U.S. Census in 1990 and referred collectively to metropolitan statistical areas (MSAs), consolidated metropolitan statistical areas (CMSAs), and primary metropolitan statistical areas (PMSAs). In addition, “area” could refer to either 1) FIPS county, 2) modified FIPS county, 3) 1999 OMB Metropolitan Statistical Area, or 4) 2003 OMB Metropolitan Statistical Area. Micropolitan Statistical Areas are not used in the AHRQ QI software.

\* See below for code list

***Asthma diagnosis codes: (ASTHMA)***

J4520	Mild intermittent asthma, uncomplicated	J4550	Severe persistent asthma, uncomplicated
J4521	Mild intermittent asthma with (acute) exacerbation	J4551	Severe persistent asthma with (acute) exacerbation
J4522	Mild intermittent asthma with status asthmaticus	J4552	Severe persistent asthma with status asthmaticus
J4530	Mild persistent asthma, uncomplicated	J45901	Unspecified asthma with (acute) exacerbation
J4531	Mild persistent asthma with (acute) exacerbation	J45902	Unspecified asthma with status asthmaticus
J4532	Mild persistent asthma with status asthmaticus	J45909	Unspecified asthma, uncomplicated
J4540	Moderate persistent asthma, uncomplicated	J45990	Exercise induced bronchospasm
J4541	Moderate persistent asthma with (acute) exacerbation	J45991	Cough variant asthma
J4542	Moderate persistent asthma with status asthmaticus	J45998	Other asthma

***Chronic obstructive pulmonary disease diagnosis codes: (COPD)***

J410	Simple chronic bronchitis	J439	Emphysema, unspecified
J411	Mucopurulent chronic bronchitis	J440	Chronic obstructive pulmonary disease with (acute) lower respiratory infection
J418	Mixed simple and mucopurulent chronic bronchitis	J441	Chronic obstructive pulmonary disease with (acute) exacerbation
J42	Unspecified chronic bronchitis	J449	Chronic obstructive pulmonary disease, unspecified
J430	Unilateral pulmonary emphysema [macleod's syndrome]	J470	Bronchiectasis with acute lower respiratory infection
J431	Panlobular emphysema	J471	Bronchiectasis with (acute) exacerbation
J432	Centrilobular emphysema	J479	Bronchiectasis, uncomplicated
J438	Other emphysema		

***Heart failure diagnosis codes: (HEARTFAILURE)***

I0981	Rheumatic heart failure	I5041	Acute combined systolic (congestive) and diastolic (congestive) heart failure
I110	Hypertensive heart disease with heart failure	I5042	Chronic combined systolic (congestive) and diastolic (congestive) heart failure
I130	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	I5043	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure
I132	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	I50810	Right heart failure, unspecified
I501	Left ventricular failure, unspecified	I50811	Acute right heart failure
I5020	Unspecified systolic (congestive) heart failure	I50812	Chronic right heart failure
I5021	Acute systolic (congestive) heart failure	I50813	Acute on chronic right heart failure
I5022	Chronic systolic (congestive) heart failure	I50814	Right heart failure due to left heart failure
I5023	Acute on chronic systolic (congestive) heart failure	I5082	Biventricular heart failure
I5030	Unspecified diastolic (congestive) heart failure	I5083	High output heart failure
I5031	Acute diastolic (congestive) heart failure	I5084	End stage heart failure
I5032	Chronic diastolic (congestive) heart failure	I5089	Other heart failure
I5033	Acute on chronic diastolic (congestive) heart failure	I509	Heart failure, unspecified
I5040	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure		

***Diabetes short term complications diagnosis codes: (DMSTCX)***

E1010	Type 1 diabetes mellitus with ketoacidosis without coma	E11649	Type 2 diabetes mellitus with hypoglycemia without coma
E1011	Type 1 diabetes mellitus with ketoacidosis with coma	E1165	Type 2 diabetes mellitus with hyperglycemia
E10641	Type 1 diabetes mellitus with hypoglycemia with coma	E1169	Type 2 diabetes mellitus with other specified complication
E10649	Type 1 diabetes mellitus with hypoglycemia without coma	E1300	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)
E1065	Type 1 diabetes mellitus with hyperglycemia	E1301	Other specified diabetes mellitus with hyperosmolarity with coma
E1069	Type 1 diabetes mellitus with other specified complication	E1310	Other specified diabetes mellitus with ketoacidosis without coma
E1100	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	E1311	Other specified diabetes mellitus with ketoacidosis with coma
E1101	Type 2 diabetes mellitus with hyperosmolarity with coma	E13641	Other specified diabetes mellitus with hypoglycemia with coma
E1110	Type 2 diabetes mellitus with ketoacidosis without coma	E13649	Other specified diabetes mellitus with hypoglycemia without coma
E1111	Type 2 diabetes mellitus with ketoacidosis with coma	E1365	Other specified diabetes mellitus with hyperglycemia
E11641	Type 2 diabetes mellitus with hypoglycemia with coma	E1369	Other specified diabetes mellitus with other specified complication

***Chronic kidney disease diagnosis codes: (CKD)***

I120	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	N19	Unspecified kidney failure
I129	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	N262	Page kidney
N181	Chronic kidney disease, stage 1	Z4822	Encounter for aftercare following kidney transplant
N182	Chronic kidney disease, stage 2 (mild)	Z4901	Encounter for fitting and adjustment of extracorporeal dialysis catheter
N183	Chronic kidney disease, stage 3 (moderate)	Z4902	Encounter for fitting and adjustment of peritoneal dialysis catheter
N1830	Chronic kidney disease, stage 3 unspecified	Z4931	Encounter for adequacy testing for hemodialysis
N1831	Chronic kidney disease, stage 3a	Z4932	Encounter for adequacy testing for peritoneal dialysis
N1832	Chronic kidney disease, stage 3b	Z9115	Patient's noncompliance with renal dialysis
N184	Chronic kidney disease, stage 4 (severe)	Z91151	Patient's noncompliance with renal dialysis due to financial hardship
N185	Chronic kidney disease, stage 5	Z91158	Patient's noncompliance with renal dialysis for other reason
N186	End stage renal disease	Z940	Kidney transplant status
N189	Chronic kidney disease, unspecified	Z992	Dependence on renal dialysis

***Lower respiratory infection (bronchitis or bacterial or unspecified pneumonia) diagnosis codes:  
(LOWERRESPIRECTION)***

B012	Varicella pneumonia	J153	Pneumonia due to streptococcus, group B
B052	Measles complicated by pneumonia	J154	Pneumonia due to other streptococci
B0681	Rubella pneumonia	J157	Pneumonia due to mycoplasma pneumoniae
J09X1	Influenza due to identified novel influenza A virus with pneumonia	J159	Unspecified bacterial pneumonia
J1000	Influenza due to other identified influenza virus with unspecified type of pneumonia	J160	Chlamydial pneumonia
J1001	Influenza due to other identified influenza virus with the same other identified influenza virus pneumonia	J168	Pneumonia due to other specified infectious organisms
J1008	Influenza due to other identified influenza virus with other specified pneumonia	J180	Bronchopneumonia, unspecified organism
J1100	Influenza due to unidentified influenza virus with unspecified type of pneumonia	J181	Lobar pneumonia, unspecified organism
J1108	Influenza due to unidentified influenza virus with specified pneumonia	J188	Other pneumonia, unspecified organism
J120	Adenoviral pneumonia	J189	Pneumonia, unspecified organism
J121	Respiratory syncytial virus pneumonia	J200	Acute bronchitis due to mycoplasma pneumoniae
J122	Parainfluenza virus pneumonia	J201	Acute bronchitis due to hemophilus influenzae
J123	Human metapneumovirus pneumonia	J202	Acute bronchitis due to streptococcus
J1281	Pneumonia due to SARS-associated coronavirus	J203	Acute bronchitis due to coxsackievirus
J1282	Pneumonia due to coronavirus disease 2019	J204	Acute bronchitis due to parainfluenza virus
J1289	Other viral pneumonia	J205	Acute bronchitis due to respiratory syncytial virus
J129	Viral pneumonia, unspecified	J206	Acute bronchitis due to rhinovirus
J13	Pneumonia due to streptococcus pneumoniae	J207	Acute bronchitis due to echovirus
J14	Pneumonia due to hemophilus influenzae	J208	Acute bronchitis due to other specified organisms
J1520	Pneumonia due to staphylococcus, unspecified	J209	Acute bronchitis, unspecified
J15211	Pneumonia due to methicillin susceptible staphylococcus aureus	J22	Unspecified acute lower respiratory infection



*Lower respiratory infection (bronchitis or bacterial or unspecified pneumonia) diagnosis codes:*  
**(LOWERRESPINFECTION)**

J15212	Pneumonia due to methicillin resistant staphylococcus aureus	J40	Bronchitis, not specified as acute or chronic
J1529	Pneumonia due to other staphylococcus		