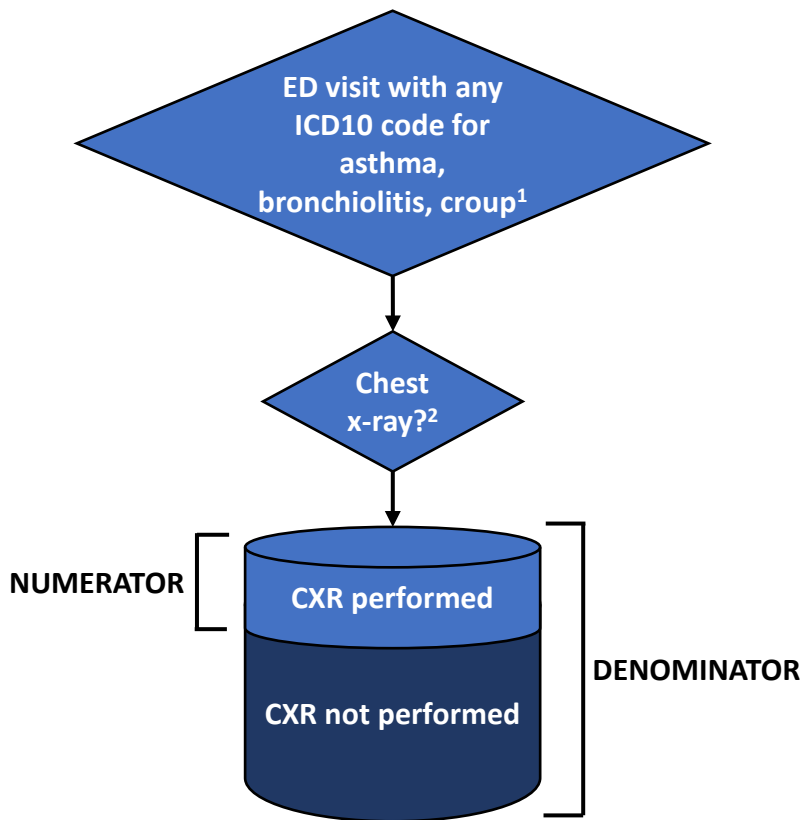


# MEDIC

## Pediatric Respiratory Illness Measure Specification Flow Diagram

Ages <18 years old (children)



<sup>1</sup>ED visits with an associated ICD 10 diagnostic code for any of the following:

- Asthma (J45.X)
- Bronchiolitis (J21.X)
- Croup (J05.0)

<sup>2</sup>CPT codes<sup>3</sup> 71045, 71046, 71047, 71048 (1 view, 2 views, 3 views, 4 views respectively)

$$\% \text{ CXR utilization} = \frac{\# \text{ eligible cases w/ CXR}}{\text{total \# eligible pediatric respiratory cases}}$$

These additional data points are collected but are NOT included in the calculation of this utilization measure:

- Fever duration  $\geq 72$  hours
- Chest pain
- First wheezing episode
- Toxic, ill-appearing, or lethargic
- Focal auscultatory lung sounds
- Foreign body ingestion/choking episode within last 2 weeks
- Worsening respiratory status in ED<sup>4</sup>
- History of MEDIC-defined chronic conditions, respiratory devices, or O<sub>2</sub> dependence<sup>5</sup>

### Chest X-Ray Utilization Measure:

**Quality initiative measure reported as:** % pediatric respiratory cases with CXR

**Denominator** = ED visits of children with respiratory illness diagnoses

**Numerator** = ED visits of children with respiratory illness diagnoses receiving a CXR (CPT codes 71045, 71046, 71047, 71048)

<sup>3</sup>CPT codes for CXR changed in 2018. For this measure, the following CPT codes were used to identify cases with a CXR in 2018 and earlier: 71010 (1 view), 71015 (1 view), 71020 (2 views). Since that change in 2018, the 4 new CPT codes for CXR listed above are used.

<sup>4</sup>Worsening respiratory status includes the following: Continuous beta agonist use in ED, accessory muscle usage, retractions, nasal flaring, grunting, head bobbing, hypoxia, >1 racemic epinephrine treatment in the ED, magnesium sulfate, use of high flow O<sub>2</sub>, intubation, CPAP/ BiPAP, child is unable to feed/self-hydrate.

<sup>5</sup>History of MEDIC-defined chronic conditions, respiratory devices, or O<sub>2</sub> dependence includes: Bronchopulmonary dysplasia, cancer (active treatment), ciliary dyskinesia, congenital heart dx (excluding isolated valve disease and/or patent ductus arteriosus), cystic fibrosis, HIV/AIDS, patient was premature (<37 weeks gestation), sickle cell disease, spinal muscular atrophy (or similar degenerative neuromuscular condition such as muscular dystrophy), tracheostomy, transplantation (solid organ or bone marrow), ventilator dependence (invasive or non-invasive), home supplemental O<sub>2</sub>, other (i.e., conjoined twins or other very rare diseases affecting the respiratory system).

### NOTES:

- The following **cases** are also included in this measure:
  - Cases in which the CPT code for an eligible CXR is missing from a case (i.e., it did not come over as part of the electronic data feed) but the abstractor sees in the chart that a CXR was performed and answers "yes" to the case abstraction question of whether a CXR was performed or not.
  - Cases in which there is a CPT code for an eligible CXR in the electronic data but the abstractor answers "no" to the case abstraction question of whether a CXR was performed or not.
- Cases abstracted between May 2018 - May 2019 also included the abstraction question of "Did the patient have documentation of a respiratory illness treated with antibiotics within the last 1 month?"