ESP CASE DETECTION ALGORITHM

Asthma

**Document Version 3.11**

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**Modification History**

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| --- | --- | --- | --- |
| **Version** | **Date** | **Modification** | **By** |
| 3.11 | 10/11/2017 | Added ESP logo and MDPH branding | DPM |
| 3.1 | 6/30/2017 | Put most recent version of algorithm on new template | DPM |
| 3.0 | 10/4/2016 | Updated algorithm |  |
| 2.0 | 9/26/2016 |  |  |
| 1.0 | 5/29/2014 | Original case definition |  |

# Overview

The purpose of this document is to describe the criteria used to identify Asthma in MDPHnet data.

# Criteria used to identify cases using ESP data

## Case criteria

Asthma is defined as meeting criteria for any one of the following:

1. ≥2 ICD 9/10 codes or ≥2 prescriptions within a two-year period
   1. Prescriptions must be ≥ 1 day apart unless they are different medications prescribed on the same day
   2. Diagnoses must be ≥ 1 day apart

## Icd-9/icd-10 codes for case criteria

|  |  |  |  |
| --- | --- | --- | --- |
| Asthma | ICD-9 | 493.xx | Asthma |
| ICD-10 | J45 | Asthma |
| J46 | Acute severe asthma |

## **Medications** for case criteria

|  |  |
| --- | --- |
| Generic Name | Brand Names |
| Albuterol | AccuNeb, Ventolin, Proventil, ProAir, VoSpire, Airomir, Asmavent, salbutamol |
| Levalbuterol | Xopenex |
| Pirbuterol | Maxair |
| Arformoterol | Brovana |
| Formoterol | Foradil, Perforomist, Oxeze |
| Indacaterol | Arcapta |
| Salmeterol | Serevent |
| Beclomethasone | Qvar |
| Budesonide INH | Pulmicort |
| Ciclesonide INH | Alvesco |
| Flunisolide INH | Aerobid,Aerospan |
| Fluticasone INH | Flovent |
| Mometasone INH | Asmanex |
| Montelukast | Singulair |
| Zafirlukast | Accolate |
| Zileuton | Zyflo |
| Ipratropium | Atrovent |
| Tiotropium | Spiriva |
| Cromolyn INH | Intal, Gastrocrom, Nalcrom |
| Omalizumab | Xolair |
| Fluticasone + Salmeterol | Advair |
| Albuterol + Ipratropium | Combivent, Duoneb |
| Mometasone + Formoterol | Dulera, Zenhale |
| Budesonide + Formoterol | Symbicort |