



ESP CASE DETECTION ALGORITHM

Asthma

Document Version 3.11

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Modification History

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	



1. Overview

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

2. Criteria used to identify cases using ESP data

I. 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
 - a. Prescriptions must be ≥ 1 day apart unless they are different medications prescribed on the same day
 - b. Diagnoses must be ≥ 1 day apart

II. ICD-9/ICD-10 CODES FOR CASE CRITERIA

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

III. 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