

Psittacosis v1
Definition Factsheet & Technical Brief

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Definition Purpose: Created by the CDC National Syndromic Surveillance Program (NSSP) for use with emergency department data to develop queries for all National Notifiable Diseases defined by the National Notifiable Disease Surveillance System (NNDSS). Please note that while the disease queries are developed using the NNDSS case definition as the basis for identifying patient visits of interest, the queried patient visits themselves may or may not represent a case patient in NNDSS and further public health investigation will most often be required. This query is intended to be a version 1 and may be further improved upon by the NSSP community of practice in the future. This query is intended to be narrow and capture visits with specific terms to support greater monitoring and actionable public health data. More complex and/or broader queries may exist that more broadly capture symptoms or travel-based terms.

New or Revised Definition: New Definition

Date Added to ESSENCE: February 2025

Definition Description: Designed to capture emergency department visits with a diagnostic code or textual indicator of possible psittacosis.

Use-Cases for Definition:

- ☒ Case-finding
- ☒ Trend monitoring
- ☒ Early outbreak detection

Justification: No query definition exists for psittacosis. CDC wants to use emergency department data to monitor trends.

Data Source During Development: Emergency Department Visits. Chief Complaint Query Validation dataset (CCQV) in ESSENCE.

Development Methods:

1. The CDC team used the NNDSS case definition of psittacosis to identify diagnostic codes (International Classification of Diseases, 9th & 10th Revision (ICD-9-CM, ICD-10-CM), SNOMED Clinical Terms (CT)) and chief complaint free-text for syndrome development.
2. The codes and free text were then categorized as inclusion or exclusion terms. These terms were formatted for querying in ESSENCE.
3. Text analysis was conducted on the initial query to find additional inclusion or exclusion terms.
4. The query was cross-checked internally as NSSP and by CDC subject matter experts as needed.

Validation Methods: This definition is part of the collection of definitions created by CDC NSSP for the rapid reportables project. The rapid reportables project is led by the CDC NSSP team to create definitions for all

nationally reportable diseases. These definitions focus on chief complaint text and diagnostic codes of the disease or its causative agents with no mention of symptoms. Select members of the Community of Practice were then asked to review line-level results for their jurisdictions and provide feedback to ensure the intended results of the definitions were met.

Definition Fields and Structure:

The Chief Complaint Discharge Diagnosis (CCDD) parsed field is used to query both the discharge diagnosis codes and chief complaint free text, and exclusions are incorporated as necessary.

- Inclusion based on psittacosis chief complaint free text terms:
 - The visit is included if it contains:
 1. A chief complaint related to disease name or variations of names – (“psittaco” or “psittaci” or or “sitacosis” or “ornithosis”) **OR**
- Inclusion based on ICD-10 discharge diagnosis codes related to psittacosis:
 - The visit is included if it contains:
 1. A discharge diagnosis code for infections caused by the disease agent Chlamydia psitacci – (A70) **OR**
- Inclusion based on ICD-9 discharge diagnosis codes related to psittacosis:
 - The visit is included if it contains:
 1. A discharge diagnosis code for ornithosis – (073.0 or 073.7 or 073.8 or 073.9) **OR**
- Inclusion based on SNOMED discharge diagnosis codes related to psittacosis:
 - The visit is included if it contains:
 1. A discharge diagnosis code for Ornithosis – (75116005) **OR**
 2. A discharge diagnosis code for the disease agent – (14590003) **OR**
 3. A discharge diagnosis code for exanthem caused by the disease agent – (735958007) **ANDNOT**
- Exclusion based on terms related to sexually transmitted disease or genitourinary complaint:
 - The visit is excluded if it contains
 1. A chief complaint containing the terms “groin”, or “sexual”, or “urinary tract”, or “genital”, or “genitourinary”, or “dysuria” **OR**
- Exclusion based on ICD-10 diagnosis codes related to sexually transmitted diseases or genitourinary complaint:
 - The visit is excluded if it contains:
 1. A discharge diagnosis code for Pain associated with micturition (R30) **OR**
 2. A discharge diagnosis code for Other disorders of the urinary system (N39) **OR**
 3. A discharge diagnosis code for Contact with and (suspected) exposure to infections with a predominantly sexual mode of transmission (Z20.2) **OR**
 4. A discharge diagnosis code for Encounter for screening for infections with a predominantly sexual mode of transmission (Z11.3)

Detailed Definition Components

Table 1. Inclusion and exclusion terms.

Variable Type	Terms	Description
Inclusions		
Discharge Diagnosis: ICD-10-CM	A70	<i>Chlamydia psittaci</i> infections
Discharge Diagnosis: ICD-9-CM	073.0	Ornithosis with pneumonia
	073.7	Ornithosis with other specified complications
	073.8	Ornithosis with unspecified complication
	073.9	Ornithosis, unspecified
Discharge Diagnosis: SNOMED concepts	14590003	<i>Chlamydia psittaci</i> (organism)
	75116005	Ornithosis (disorder)
	735958007	Exanthem caused by <i>Chlamydia psittaci</i> (disorder)
Chief Complaint Terms	psittac[io]	
	sitacosis	
	ornithosis	
Exclusions		
Discharge Diagnosis: ICD-10-CM	R30	Pain associated with micturition
	N39	Other disorders of urinary system
	Z20.2	Contact with and (suspected) exposure to infections with a predominantly sexual mode of transmission
	Z11.3	Encounter for screening for infections with a predominantly sexual mode of transmission
Chief Complaint Terms	groin	
	sexual	
	urinary tract	
	genital	
	genitourinary	
	dysuria	

Table 2. *ESSENCE* syntax

(,^psittac[i]o^,OR,^sitacosis^,OR,^ornithosis^,OR,^;A70^,OR,^;073[0789];^,OR,^;14590003;^,OR,^;75116005;^,OR,^;735958007;^,),andnot,(,^groin^,OR,^sexual^,OR,^urinary tract^,OR,^genital^,OR,^genitourinary^,OR,^dysuria^,OR,^;R30^,OR,^;N39^,OR,^;Z202^,OR,^;Z113^,)
