

Acquired Syphilis v1
Definition Factsheet & Technical Brief

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Definition Description: Acquired syphilis is an infection caused by the bacterium *Treponema pallidum* that is most commonly transmitted via sexual contact. Syphilitic infections progress through multiple stages, alternating between symptomatic periods and periods of latency when no clinical signs or symptoms or infection are present. This definition was created by the CDC National Syndromic Surveillance Program (NSSP) for use with emergency department data to develop queries for acquired syphilis (i.e., non-congenital syphilis) in patients 10 years and older. Please note that the queries are developed using syphilis-related free text terms from chief complaint fields; International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and Tenth Revision, Clinical Modification (ICD-10-CM) discharge diagnosis codes; and Systematized Nomenclature of Medicine Clinical Terms (SNOMED CT) as the basis for identifying patient visits of interest and not the Council of State and Territorial Epidemiologists (CSTE) syphilis surveillance case definition. The queried patient visits may or may not represent data for a case patient included in National Notifiable Diseases Surveillance System (NNDSS) case data and further public health investigation may 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 extensive queries may exist that more broadly capture symptoms or other terms.

Key Considerations

These case definitions are intended for **surveillance and public health reporting** and may not fully align with clinical diagnosis or management or disease intervention practices. These definitions should not be utilized for meeting an individual patient's needs or for determining the specific partner services interventions that should be implemented.

Citations

1. Council of State and Territorial Epidemiologists (CSTE). **Syphilis (Acquired, including Congenital) 2018 Case Definition**. Available at: <https://ndc.services.cdc.gov/case-definitions/syphilis-2018>
2. Centers for Disease Control and Prevention (CDC). **Syphilis – CDC Fact Sheet**. Available at: <https://www.cdc.gov/std/syphilis/default.htm>.

New or Revised Definition: New Definition

Date Added to ESSENCE: August 2025

Use-Cases for Definition:

Case-finding: Tertiary

Trend monitoring: Primary

Early outbreak detection: Secondary

Emergent Condition: Not Intended as Use Case

Justification: There is no current syndromic surveillance definition for acquired syphilis available in ESSENCE.

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

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 notifiable diseases to be used when querying NSSP emergency department data. 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.

Validation Results:

		Total Visits (N)	Probable Visits (a)	Undetermined Visits (b)	Ruled Out Visits (c)	PPV (a/N)*100
Total		512	463	49	0	90.4%
Sex	Male					
	Female					
Age Groups	00-04					
	05-17					
	18-44					
	45-64					
	65+					

Footnote:

- A visit is considered a true positive/probable if it contains chief complaint free text and a discharge diagnosis code of acquired syphilis in patients 10 years and older.
- A visit is considered undetermined if it contains a discharge diagnosis code for syphilis, but the chief complaint text does not indicate symptoms related to syphilis.
- A visit is considered a false positive/rule-out if it contains chief complaint text or discharge diagnosis codes for congenital syphilis.

Limitations:

Acquired syphilis is a particularly challenging infection to diagnose, and no studies have evaluated the validity of chief complaint data or ICD-9-CM, ICD-10-CM, or SNOMED CT codes for monitoring trends in acquired syphilis diagnoses. Due to a lack of widely available, reliable, cost-effective, and rapid direct detection testing options, syphilis diagnosis relies on a combination of serologic treponemal and nontreponemal test results. Accurate diagnosis requires correct interpretation of these serologic test results in the context of findings from the patient's history, physical examination, and past syphilis serologic test results (if available). However, signs and symptoms of primary or secondary syphilis are often subtle or may be confused with other conditions, and syphilitic lesions may occur at anatomic sites where they go undetected by patients and clinical providers. Additionally, because syphilitic infections often include prolonged periods of latency when no signs or symptoms are present, detection is frequently dependent on screening practices which may vary widely by facility or provider. Furthermore, depending on the patient's stage of infection, HIV status, and serologic response to therapy, up to 24 months of follow-up may be needed upon completion of stage-appropriate treatment. Consequently, syphilis diagnostic codes may inaccurately reflect a patient's stage of syphilitic infection, be utilized as justification for screening or

presumptive treatment, or indicate follow-up of a prior treated syphilitic infection. In light of these limitations, the acquired syphilis data gathered through the use of this definition may represent under- or overestimates of syphilis diagnoses, and these data should be interpreted with caution.

Definition Fields and Structure:

To ensure that only patients with acquired syphilis are captured, include an age restricting the dataset to patients ages 10 and over. This can be done by:

- Selecting the “Age Range” age group filter.
- Using the drop down box and selecting the operator “greater than or equal to”.
- Typing “10” into the input box for Age Range.

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 Acquired Syphilis complaint free text terms:
 - The visit is included if it contains:
 1. A chief complaint related to Syphilis (“siphili” or “syphili” or “syphylu” or “syphilu” or “siphylu” or “syphilu” or “siphilli” or “syphilli” or “syphylu” or “syphilu” or “siphylli” or “siphillu” or “syphilli” or “sifili” or “syfyli” or “syfyly” or “syfilu” or “sifyli” or “sifilu” or “syfili”) **OR**
 2. A chief complaint related to General Paresis (“general paresis”) **OR**
 3. A chief complaint related to Tabes (“tabes”) **OR**
- Inclusion based on ICD-10-CM discharge diagnosis codes related to Acquired Syphilis:
 - The visit is included if it contains:
 1. A discharge diagnosis code related to Primary Syphilis (A51.0 or A51.1 or A51.2) **OR**
 2. A discharge diagnosis code related to Secondary Syphilis (A51.3 or A51.4) **OR**
 3. A discharge diagnosis code for Early Latent Syphilis (A51.5) **OR**
 4. A discharge diagnosis code for Early Syphilis, not specified as primary, secondary, or early latent syphilis (A51.9) **OR**
 5. A discharge diagnosis code for Cardiovascular or Cerebrovascular Syphilis (A52.0) **OR**
 6. A discharge diagnosis code related to Neurosyphilis, not specified as occurring during secondary syphilis (A52.1 or A52.2 or A52.3) **OR**
 7. A discharge diagnosis code for syphilis of other organs and tissues (A52.7) **OR**
 8. A discharge diagnosis code related to Late Syphilis, unspecified or specified as latent (A52.8 or A52.9) **OR**
 9. A discharge diagnosis code for Latent Syphilis, unspecified as early or late (A53.0) **OR**
 10. A discharge diagnosis code for Syphilis, unspecified (A53.9)
 11. A discharge diagnosis code for Syphilis complicating pregnancy (O98.11) **OR**
 12. A discharge diagnosis code for Syphilis complicating childbirth (O98.12) **OR**
 13. A discharge diagnosis code for Syphilis complicating the puerperium (O98.13) **OR**
- Inclusion based on ICD-9-CM discharge diagnosis codes related to Acquired Syphilis:
 - The visit is included if it contains:
 1. A discharge diagnosis code related to Primary Syphilis (091.0 or 091.1 or 091.2) **OR**
 2. A discharge diagnosis code related to Secondary Syphilis (091.3 or 091.4 or 091.5 or 091.6 or 091.7 or 091.8 or 091.9) **OR**
 3. A discharge diagnosis code related to Early Syphilis, Latent (092.0 or 092.9) **OR**
 4. A discharge diagnosis code for Aneurysm of aorta, specified as syphilitic (093.0) **OR**
 5. A discharge diagnosis code for Syphilitic aortitis (093.1) **OR**
 6. A discharge diagnosis code for Syphilitic endocarditis (093.2) **OR**
 7. A discharge diagnosis code related to Cardiovascular Syphilis (093.8 or 093.9) **OR**
 8. A discharge diagnosis code related to Neurosyphilis, not specified as occurring during secondary syphilis (094.0 or 094.1 or 094.2 or 094.3 or 094.8 or 094.9) **OR**
 9. A discharge diagnosis code related to Syphilis affecting other organs and tissues (095.0 or 095.1 or 095.2 or 095.3 or 095.4 or 095.5 or 095.6 or 095.7) **OR**
 10. A discharge diagnosis code related to Late Syphilis (095.8 or 095.9 or 096 or 097.0) **OR**
 11. A discharge diagnosis code for Latent Syphilis, unspecified (097.1) **OR**
 12. A discharge diagnosis code for Syphilis, unspecified (097.9) **OR**

13. A discharge diagnosis code for Syphilis complicating pregnancy, childbirth, or the puerperium (647.0) **OR**
- Inclusion based on SNOMED CT discharge diagnosis codes related to Acquired Syphilis:
 - The visit is included if it contains:
 1. A discharge diagnosis code for Syphilis (76272004) **OR**
 2. A discharge diagnosis code for Acquired Syphilis (240555007) **OR**
 3. A discharge diagnosis code related to Primary Syphilis (266127002 or 28198007 or 31015008 or 10345003 or 54274001 or 27460003 or 186847001 or 237447001 or 237447001) **OR**
 4. A discharge diagnosis code related to Secondary Syphilis (240557004 or 402947001 or 1052322008 or 77028001 or 266128007 or 59233003 or 63751007 or 186861006 or 80770009 or 52414005 or 60528006 or 81339006 or 51960003 or 58227000 or 1142099009 or 197348008 or 402952006 or 186854007 or 1052296002 or 192647003 or 59934002 or 1052319006 or 39085002 or 15993351000119107 or 85857008 or 1052321001 or 15993311000119106 or 62861003 or 1052300001 or 402948006 or 66281009 or 15993471000119105 or 1052323003 or 186850003 or 15993391000119102 or 15677881000119106 or 15677801000119103 or 15677841000119101 or 266129004 or 866115006) **OR**
 5. A discharge diagnosis code related to Oral Syphilis (235062007 or 713251003) **OR**
 6. A discharge diagnosis code related to Early Syphilis (186867005 or 186846005 or 266130009 or 186868000 or 1107004 or 31137003) **OR**
 7. A discharge diagnosis code related to Late Syphilis (72083004 or 186903006 or 788998009 or 1010615002 or 788975001 or 197757004 or 197347003 or 838317007 or 266136003 or 789121002 or 860894002 or 870319003 or 870273007 or 870347004 or 66887000 or 405635002 or 402951004 or 1142043006) **OR**
 8. A discharge diagnosis code related to Latent Syphilis (444150000 or 67125004) **OR**
 9. A discharge diagnosis code for Tertiary Syphilis (127058009) **OR**
 10. A discharge diagnosis code related to Quaternary Syphilis (278481001 or 240568004) **OR**
 11. A discharge diagnosis code for Neurosyphilis (26039008) **OR**
 12. A discharge diagnosis code related to Cardiovascular Syphilis (83883001 or 58056005 or 45058001 or 42770003) **OR**
 13. A discharge diagnosis code related to Ocular Syphilis (410478005 or 193786000) **OR**
 14. A discharge diagnosis code for Endocochlear Syphilis (232313005) **OR**
 15. A discharge diagnosis code related to Renal manifestations of Syphilis (59530001 or 29500006) **OR**
 16. A discharge diagnosis code related to Skeletomuscular manifestations of Syphilis (104471000119105 or 201738001 or 3743000450528008 or 49923008 or 88943008) **OR**
 17. A discharge diagnosis code related to Syphilis affecting specific organs (8555001 or 86028001 or 237446005) **OR**
 18. A discharge diagnosis code for Syphilitic prostatitis (197966009) **OR**
 19. A discharge diagnosis code related to Syphilitic gumma (64102008 or 235064008 or 21523006) **OR**
 20. A discharge diagnosis code related to Syphilides (240558009 or 240560006 or 402949003 or 240562003) **OR**
 21. A discharge diagnosis code related to Syphilitic iritis (711617002 or 15679561000119100 or 15679481000119100 or 15679681000119100) **OR**
 22. A discharge diagnosis code related to Syphilitic chancres (736686006 or 402941000 or 402940004 or 402942007) **OR**
 23. A discharge diagnosis code for Syphilitic aneurysm (234017002) **OR**
 24. A discharge diagnosis code for Syphilitic aortic aneurysm (12232008) **OR**
 25. A discharge diagnosis code for Syphilitic aortitis (20735004) **OR**
 26. A discharge diagnosis code for Syphilitic alopecia (59307008) **OR**
 27. A discharge diagnosis code related to Syphilitic bursitis (202933002 or 838317007) **OR**
 28. A discharge diagnosis code for Syphilitic myelitis (870293004) **OR**
 29. A discharge diagnosis code related to Syphilitic retinitis (410470003 or 15685521000119100 or 15685481000119100 or 15685441000119100) **OR**

30. A discharge diagnosis code for Syphilitic balanitis (402943002) **OR**
 31. A discharge diagnosis code related to Syphilitic cirrhosis (16070004 or 197305002) **OR**
 32. A discharge diagnosis code related to Syphilitic meningitis (301086002 or 68863007 or 186863009) **OR**
 33. A discharge diagnosis code for Syphilitic leukoderma (55768006) **OR**
 34. A discharge diagnosis code for Syphilitic panuveitis (870331001) **OR**
 35. A discharge diagnosis code related to Syphilitic myocarditis (4082005 or 194947001) **OR**
 36. A discharge diagnosis code for Syphilitic choroiditis (331151000119109) **OR**
 37. A discharge diagnosis code for Syphilis in childbirth (10759921000119100) **OR**
 38. A discharge diagnosis code for Syphilitic peritonitis (34964002) **OR**
 39. A discharge diagnosis code related to Syphilitic endocarditis (67391006 or 94851000119107 or 186875004 or 278480000 or 186878002 or 186877007) **OR**
 40. A discharge diagnosis code for Syphilitic episcleritis (11338007) **OR**
 41. A discharge diagnosis code for Syphilitic parkinsonism (38523005) **OR**
 42. A discharge diagnosis code related to Syphilitic pericarditis (3589003 or 194907008) **OR**
 43. A discharge diagnosis code related to Syphilitic encephalitis (26135000 or 230182006) **OR**
 44. A discharge diagnosis code related to Syphilitic optic atrophy (22386003 or 870319003) **OR**
 45. A discharge diagnosis code for Syphilitic valve disease (233849007) **OR**
 46. A discharge diagnosis code for Syphilitic skin disorder (371237000) **OR**
 47. A discharge diagnosis code for Syphilitic polyneuropathy (240569007) **OR**
 48. A discharge diagnosis code related to Syphilitic oral leukoplakia (235032001 or 402950003) **OR**
 49. A discharge diagnosis code for Syphilitic punched out ulcer (4483005) **OR**
 50. A discharge diagnosis code related to Syphilitic neuritis (19206003 or 36276008 or 302813001) **OR**
 51. A discharge diagnosis code for Syphilitic cerebral arteritis (230735006) **OR**
 52. A discharge diagnosis code for Syphilitic mucosal ulceration (240563008) **OR**
 53. A discharge diagnosis code for Secondary syphilitic gastritis (1052296002) **OR**
 54. A discharge diagnosis code for Syphilitic aortic incompetence (61612001) **OR**
 55. A discharge diagnosis code for Secondary syphilitic periostitis (69595007) **OR**
 56. A discharge diagnosis code for Syphilitic interstitial keratitis (44568006) **OR**
 57. A discharge diagnosis code for Syphilitic oral snail track ulcer (235065009) **OR**
 58. A discharge diagnosis code for Syphilitic coronary artery disease (240567009) **OR**
 59. A discharge diagnosis code for Secondary syphilitic iridocyclitis (30080002) **OR**
 60. A discharge diagnosis code for Syphilitic ostial coronary disease (62207008) **OR**
 61. A discharge diagnosis code for Tertiary syphilitic chorioretinitis (312955002) **OR**
 62. A discharge diagnosis code for Spastic spinal syphilitic paralysis (75299005) **OR**
 63. A discharge diagnosis code for Syphilitic posterior spinal sclerosis (315826004) **OR**
 64. A discharge diagnosis code for Rupture of syphilitic cerebral aneurysm (186893003) **OR**
 65. A discharge diagnosis code for Syphilitic disseminated retinochoroiditis (77939001) **OR**
 66. A discharge diagnosis code for Syphilitic infectious intermediate uveitis (1177029002) **OR**
 67. A discharge diagnosis code for Female syphilitic pelvic inflammatory disease (198175009) **OR**
 68. A discharge diagnosis code related to Maternal syphilis during pregnancy, childbirth and the puerperium (10759921000119107 or 199154009) **ANDNOT**
- All of the above must exclude:
 - A chief complaint related to Congenital Syphilis (“congenital siphilis” or “congenital syphylis” or “congenital syphylus” or “congenital syphilus” or “congenital siphylis” or “congenital syphillis” or “congenital syphyllis” or “congenital syphyllus” or “congenital syphillus” or “congenital siphyllis” or “congenital siphillus” or “congenital syphillis” or “congenital sifilis” or “congenital syfylis” or “congenital syfylus” or “congenital syfilus” or “congenital sifylis” or “congenital sifilus” or “congenital syfilis”) **OR**
 - An ICD-10-CM discharge diagnosis code for Congenital Syphilis (A50) **OR**
 - An ICD-10-CM discharge diagnosis code for Nonvenereal Syphilis (A65) **OR**
 - An ICD-9-CM discharge diagnosis code related to Congenital Syphilis (090.0 or 090.1 or 090.2 or 090.3 or 090.4 or 090.5 or 090.6 or 090.7 or 090.9) **OR**

- An ICD-9-CM discharge diagnosis code for Nonvenereal Syphilis (104.0) **OR**
- A SNOMED CT discharge diagnosis code related to Congenital Syphilis (35742006 or 87318008 or 9941009 or 192008 or 27648007 or 4359001 or 86443005 or 266126006 or 82323002 or 109436001 or 1177081002 or 827006 or 186833000 or 735515000 or 6267005 or 266125005 or 721583004 or 1142095003 or 235898000 or 1142031005 or 703134008 or 866106004 or 1142112002 or 46235002 or 722118005) **OR**
- A SNOMED CT discharge diagnosis code for non-venereal endemic syphilis (271426000) **OR**
- A discharge diagnosis code for Nasal Syphilis (232367004)

Plain Language Description

The definition uses discharge diagnosis codes and free-text chief complaint terms. The definition requires that an emergency department visit contains a reference to the condition by its discharge diagnosis code (in at least one of the following: ICD-9-CM, ICD-10-CM, SNOMED CT diagnostic codes), or by the condition name listed in the chief complaint text. Therefore, the acquired syphilis v1 syndromic surveillance definition includes ICD-10-CM, and SNOMED CT diagnostic codes for acquired syphilis, along with direct mentions of acquired syphilis (including misspellings of syphilis) in chief complaint text. To ensure that only acquired syphilis was captured, we excluded records with chief complaint text and discharge diagnosis codes for congenital syphilis.

Suggested Use in Analysis

This definition combines all acquired syphilis infections, including acquired syphilis infections in women who are pregnant. To identify acquired syphilis in pregnant women, we suggest using ESSENCE fields like age group and CCDD category to identify these occurrences (details below).

Acquired syphilis infections in pregnant women

- Combine acquired syphilis definition **AND**
 - Age group ≥ 10 **AND**
 - CC and DD Category = “CDC Pregnancy and Pregnancy Loss and Delivery v1”

Detailed Definition Components

Table 1. Inclusion and exclusion terms...

Terms	Description
Inclusion	
International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM)	
A51.0	Primary genital syphilis
A51.1	Primary anal syphilis
A51.2	Primary syphilis of other sites
A51.3	Secondary syphilis of skin and mucous membranes
A51.31	Condyloma latum
A51.32	Syphilitic alopecia
A51.39	Other secondary syphilis of skin
A51.4	Other secondary syphilis
A51.41	Secondary syphilitic meningitis
A51.42	Secondary syphilitic female pelvic disease
A51.43	Secondary syphilitic oculopathy
A51.44	Secondary syphilitic nephritis
A51.45	Secondary syphilitic hepatitis
A51.46	Secondary syphilitic osteopathy
A51.49	Other secondary syphilitic conditions
A51.5	Early syphilis, latent
A51.9	Early syphilis, unspecified
A52.0	Cardiovascular and cerebrovascular syphilis

A52.1	Symptomatic neurosyphilis
A52.2	Asymptomatic neurosyphilis
A52.3	Neurosyphilis, unspecified
A52.7	Other symptomatic late syphilis
A52.8	Late syphilis, latent
A52.9	Late syphilis, unspecified
A53.0	Latent syphilis, unspecified as early or late
A53.9	Syphilis, unspecified
O98.1	Syphilis complicating pregnancy, childbirth and the puerperium
O98.11	Syphilis complicating pregnancy
O98.111	Syphilis complicating pregnancy, first trimester
O98.112	Syphilis complicating pregnancy, second trimester
O98.113	Syphilis complicating pregnancy, third trimester
O98.119	Syphilis complicating pregnancy, unspecified trimester
O98.12	Syphilis complicating childbirth
O98.13	Syphilis complicating the puerperium
International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM)	
091.0	Genital Syphilis (primary)
091.1	Primary anal syphilis
091.2	Other primary syphilis
091.3	Secondary syphilis of skin or mucous membranes
091.4	Adenopathy due to secondary syphilis
091.5	Uveitis due to secondary syphilis
091.50	Syphilitic uveitis, unspecified
091.51	Syphilitic chorioretinitis (secondary)
091.52	Syphilitic iridocyclitis (secondary)
091.6	Secondary syphilis of viscera and bone
091.61	Secondary syphilitic periostitis
091.62	Secondary syphilitic hepatitis
091.69	Secondary syphilis of other viscera
091.7	Secondary syphilis, relapse
091.8	Other forms of secondary syphilis
091.81	Acute syphilitic meningitis (secondary)
091.82	Syphilitic alopecia
091.89	Other forms of secondary syphilis
091.9	Unspecified secondary syphilis
092.0	Early syphilis, latent, serological relapse after treatment
092.9	Early syphilis, latent, unspecified
093.0	Aneurysm of aorta, specified as syphilitic
093.1	Syphilitic aortitis
093.2	Syphilitic endocarditis
093.20	Syphilitic endocarditis of valve, unspecified
093.21	Syphilitic endocarditis of mitral valve
093.22	Syphilitic endocarditis of aortic valve
093.23	Syphilitic endocarditis of tricuspid valve
093.24	Syphilitic endocarditis of pulmonary valve
093.8	Other specified cardiovascular syphilis
093.81	Syphilitic pericarditis
093.82	Syphilitic myocarditis
093.89	Other specified cardiovascular syphilis
093.9	Cardiovascular syphilis, unspecified
094.0	Tabes dorsalis
094.1	General paresis
094.2	Syphilitic meningitis
094.3	Asymptomatic neurosyphilis

094.8	Other specified neurosyphilis
094.81	Syphilitic encephalitis
094.82	Syphilitic parkinsonism
094.83	Syphilitic disseminated retinochoroiditis
094.84	Syphilitic optic atrophy
094.85	Syphilitic retrobulbar neuritis
094.86	Syphilitic acoustic neuritis
094.87	Syphilitic ruptured cerebral aneurysm
094.89	Other specified neurosyphilis
094.9	Neurosyphilis, unspecified
095.0	Syphilitic episcleritis
095.1	Syphilis of lung
095.2	Syphilitic peritonitis
095.3	Syphilis of liver
095.4	Syphilis of kidney
095.5	Syphilis of bone
095.6	Syphilis of muscle
095.7	Syphilis of synovium, tendon, and bursa
095.8	Other specified forms of late symptomatic syphilis
095.9	Late symptomatic syphilis, unspecified
096	Late syphilis, latent
097.0	Late syphilis, unspecified
097.1	Latent syphilis, unspecified
097.9	Syphilis, unspecified
647.0	Syphilis complicating pregnancy, childbirth, or the puerperium
647.00	Syphilis of mother, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable
647.01	Syphilis of mother, complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
647.02	Syphilis of mother, complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
647.03	Syphilis of mother, complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication
647.04	Syphilis of mother, complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication
SNOMED CT Concepts	
76272004	Syphilis
235062007	Oral syphilis
72083004	Late syphilis
59530001	Syphilis of kidney
444150000	Latent syphilis
410478005	Ocular syphilis
50528008	Syphilis of bone
266127002	Primary syphilis
8555001	Syphilis of lung
86028001	Syphilis of liver
713251003	Gingival disease caused by Treponema pallidum
240555007	Acquired syphilis
237446005	Syphilis of breast
49923008	Syphilis of tendon
240557004	Secondary syphilis
88943008	Syphilis of muscle
278481001	Quaternary syphilis
37430004	Syphilis of synovium
186903006	Late latent syphilis
788998009	Ocular late syphilis

28198007	Primary syphilis of lip
31015008	Primary anal syphilis
232313005	Endocochlear syphilis
1010615002	Late syphilis of lung
788975001	Late syphilis of skin
186867005	Latent early syphilis
866115006	Lues maligna
197757004	Late syphilis of kidney
197966009	Syphilitic prostatitis
83883001	Cardiovascular syphilis
10345003	Primary syphilis of tonsils
54274001	Primary syphilis of fingers
402947001	Late secondary syphilis
27460003	Primary syphilis of breast
186847001	Primary genital syphilis
58056005	Syphilis of mitral valve
240568004	Meningovascular syphilis – quaternary stage
67125004	Latent syphilis with positive serology
1052322008	Secondary syphilis of eye
193786000	Keratitis due to syphilis
77028001	Secondary syphilis of anus
237447001	Primary syphilis of nipple
197347003	Hepatitis in late syphilis
266128007	Rash of secondary syphilis
59233003	Secondary syphilis of skin
63751007	Secondary syphilis of bone
186846005	Early symptomatic syphilis
186861006	Secondary syphilis relapse
80770009	Secondary syphilis of liver
52414005	Secondary syphilis of vulva
45058001	Syphilis of pulmonary valve
42770003	Syphilis of tricuspid valve
60528006	Secondary syphilis of mouth
81339006	Secondary syphilis of tonsil
51960003	Secondary syphilis of pharynx
58227000	Secondary syphilis of viscera
838317007	Bursitis due to late syphilis
240556008	Primary extragenital syphilis
1142099009	Secondary syphilis of synovium
197348008	Hepatitis in secondary syphilis
266136003	Acquired syphilis - late latent
402952006	Anetoderma secondary to syphilis
789121002	Late syphilis of mucous membrane
266130009	Acquired syphilis - early latent
186854007	Uveitis due to secondary syphilis
860894002	Episcleritis due to late syphilis
26039008	Neurosyphilis
870319003	Optic atrophy due to late syphilis
29500006	Urethral stricture due to syphilis
1052296002	Gastritis due to secondary syphilis
104471000119105	Charcot arthropathy due to syphilis
192647003	Secondary syphilitic meningitis
59934002	Secondary syphilitic adenopathy
1052319006	Secondary syphilis of nervous system
39085002	Secondary syphilis of mucous membrane

15993351000119107	Iritis of left eye due to secondary syphilis
85857008	Secondary syphilis, relapse (treated)
201738001	Post-infective arthropathy in syphilis
1052321001	Secondary syphilis of digestive system
15993311000119106	Iritis of right eye due to secondary syphilis
870273007	Posterior uveitis due to late syphilis
62861003	Secondary syphilis, relapse (untreated)
1052300001	Proctocolitis due to secondary syphilis
402948006	Nail dystrophy due to secondary syphilis
870347004	Retrobulbar neuritis due to late syphilis
66281009	Chorioretinitis due to secondary syphilis
15993471000119105	Iritis of bilateral eyes due to secondary syphilis
1052323003	Secondary syphilis of musculoskeletal system
186850003	Secondary syphilis of skin and mucous membrane
402951004	Oral mucous membrane lesion due to late syphilis
1142043006	Regurgitation of pulmonary valve due to late syphilis
15993391000119102	Retinitis of bilateral eyes due to secondary syphilis
15677881000119106	Chorioretinitis of left eye due to secondary syphilis
15677801000119103	Chorioretinitis of right eye due to secondary syphilis
66887000	Late syphilis, latent (positive serology, negative cerebrospinal fluid 2 years after)
15677841000119101	Chorioretinitis of bilateral eyes due to secondary syphilis
186868000	Serological relapse after treatment of latent early syphilis
127058009	Paroxysmal cold hemoglobinuria associated with tertiary syphilis
405635002	Late syphilis with clinical manifestations other than neurosyphilis
1107004	Early latent syphilis, positive serology, negative cerebrospinal fluid, with relapse after treatment
31137003	Early latent syphilis, positive serology, negative cerebrospinal fluid, less than 2 years after infection
266129004	Secondary syphilis of viscera or bone
64102008	Syphilitic gumma
240558009	Macular syphilide
240560006	Papular syphilide
402949003	Nodular syphilide
711617002	Syphilitic iritis
240562003	Pustular syphilide
736686006	Syphilitic chancre
234017002	Syphilitic aneurysm
20735004	Syphilitic aortitis
59307008	Syphilitic alopecia
202933002	Syphilitic bursitis
870293004	Syphilitic myelitis
410470003	Syphilitic retinitis
402943002	Syphilitic balanitis
16070004	Syphilitic cirrhosis
301086002	Syphilitic meningitis
55768006	Syphilitic leukoderma
870331001	Syphilitic panuveitis
4082005	Syphilitic myocarditis
331151000119109	Syphilitic choroiditis
10759921000119100	Syphilis in childbirth
34964002	Syphilitic peritonitis
15679561000119100	Left syphilitic iritis
67391006	Syphilitic endocarditis
11338007	Syphilitic episcleritis
38523005	Syphilitic parkinsonism

3589003	Syphilitic pericarditis
26135000	Syphilitic encephalitis
15679481000119100	Right syphilitic iritis
22386003	Syphilitic optic atrophy
233849007	Syphilitic valve disease
371237000	Syphilitic skin disorder
838317007	Late syphilitic bursitis
240569007	Syphilitic polyneuropathy
15685521000119100	Left syphilitic retinitis
1177076006	Syphilitic dacryoadenitis
12232008	Syphilitic aortic aneurysm
82355002	Syphilitic aortic stenosis
312934004	Syphilitic chorioretinitis
866090003	Syphilitic meningomyelitis
15685481000119100	Right syphilitic retinitis
402941000	Syphilitic chancre of vulva
402940004	Syphilitic chancre of penis
235032001	Syphilitic oral leukoplakia
68863007	Acute syphilitic meningitis
197305002	Syphilitic portal cirrhosis
15679681000119100	Bilateral syphilitic iritis
4483005	Syphilitic punched out ulcer
194947001	Acute syphilitic myocarditis
230182006	Late syphilitic encephalitis
19206003	Syphilitic acoustic neuritis
230735006	Syphilitic cerebral arteritis
870319003	Late syphilitic optic atrophy
240563008	Syphilitic mucosal ulceration
194907008	Acute syphilitic pericarditis
1052296002	Secondary syphilitic gastritis
61612001	Syphilitic aortic incompetence
15685441000119100	Bilateral syphilitic retinitis
36276008	Syphilitic retrobulbar neuritis
235064008	Syphilitic gumma of oral cavity
402950003	Syphilitic leukoplakia of tongue
94851000119107	Syphilitic valvular endocarditis
69595007	Secondary syphilitic periostitis
44568006	Syphilitic interstitial keratitis
235065009	Syphilitic oral snail track ulcer
240567009	Syphilitic coronary artery disease
30080002	Secondary syphilitic iridocyclitis
62207008	Syphilitic ostial coronary disease
312955002	Tertiary syphilitic chorioretinitis
75299005	Spastic spinal syphilitic paralysis
315826004	Syphilitic posterior spinal sclerosis
186863009	Acute secondary syphilitic meningitis
186875004	Syphilitic endocarditis of mitral valve
186893003	Rupture of syphilitic cerebral aneurysm
278480000	Syphilitic endocarditis of aortic valve
77939001	Syphilitic disseminated retinochoroiditis
21523006	Syphilitic gumma of central nervous system
186878002	Syphilitic endocarditis of pulmonary valve
1177029002	Syphilitic infectious intermediate uveitis
186877007	Syphilitic endocarditis of tricuspid valve
402942007	Syphilitic chancre of oral mucous membranes

198175009	Female syphilitic pelvic inflammatory disease
302813001	Syphilitic acoustic neuritis - quaternary stage
199154009	Maternal syphilis during pregnancy, childbirth and the puerperium
Chief Complaint	
“siphili” or “syphyli” or “syphylu” or “syphilu” or “siphyli” or “siphilu” or “syphili”	
“siphilli” or “syphylli” or “syphyllu” or “syphillu” or “siphylli” or “siphillu” or “syphilli”	
“sifili” or “syfyli” or “syfyly” or “syfilu” or “sifyli” or “sifilu” or “syfili”	
“general paresis”	
“tabes”	
Exclusion	
International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM)	
A50	Congenital Syphilis
A50.0	Early congenital syphilis, symptomatic
A50.01	Early congenital syphilitic oculopathy
A50.02	Early congenital syphilitic osteochondropathy
A50.03	Early congenital syphilitic pharyngitis
A50.04	Early congenital syphilitic pneumonia
A50.05	Early congenital syphilitic rhinitis
A50.06	Early cutaneous congenital syphilis
A50.07	Early mucocutaneous congenital syphilis
A50.08	Early visceral congenital syphilis
A50.09	Other early congenital syphilis, symptomatic
A50.1	Early congenital syphilis, latent
A50.2	Early congenital syphilis, unspecified
A50.3	Late congenital syphilitic oculopathy
A50.30	Late congenital syphilitic oculopathy, unspecified
A50.31	Late congenital syphilitic interstitial keratitis
A50.32	Late congenital syphilitic chorioretinitis
A50.39	Other late congenital syphilitic oculopathy
A50.4	Late congenital neurosyphilis [juvenile neurosyphilis]
A50.40	Late congenital neurosyphilis, unspecified
A50.41	Late congenital syphilitic meningitis
A50.42	Late congenital syphilitic encephalitis
A50.43	Late congenital syphilitic polyneuropathy
A50.44	Late congenital syphilitic optic nerve atrophy
A50.45	Juvenile general paresis
A50.49	Other late congenital neurosyphilis
A50.5	Other late congenital syphilis, symptomatic
A50.51	Clutton's joints
A50.52	Hutchinson's teeth
A50.53	Hutchinson's triad
A50.54	Late congenital cardiovascular syphilis
A50.55	Late congenital syphilitic arthropathy
A50.56	Late congenital syphilitic osteochondropathy
A50.57	Syphilitic saddle nose
A50.59	Other late congenital syphilis, symptomatic
A50.6	Late congenital syphilis, latent
A50.7	Late congenital syphilis, unspecified
A50.9	Congenital syphilis, unspecified
A65	Nonvenereal syphilis
International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM)	
090.0	Early congenital syphilis, symptomatic
090.1	Early congenital syphilis, latent
090.2	Early congenital syphilis, unspecified
090.3	Syphilitic interstitial keratitis

090.4	Juvenile neurosyphilis
090.5	Other late congenital syphilis, symptomatic
090.6	Late congenital syphilis, latent
090.7	Late congenital syphilis, unspecified
090.9	Congenital syphilis, unspecified
104.0	Nonvenereal endemic syphilis
SNOMED Concepts	
35742006	Congenital syphilis
87318008	Congenital syphilis with gumma
9941009	Congenital syphilitic choroiditis
192008	Congenital syphilitic hepatomegaly
27648007	Congenital syphilitic periostitis
4359001	Early congenital syphilis (less than 2 years)
86443005	Hutchinson's teeth
266126006	Late congenital neurosyphilis
82323002	Late congenital syphilis (2 years or more)
109436001	Moon's molar teeth
1177081002	Mulberry molar teeth
10759921000119107	Syphilis in mother complicating childbirth
827006	Late congenital syphilis, latent (positive serology - cerebrospinal fluid, 2 years OR more)
186833000	Early congenital syphilis - latent
735515000	Symptomatic late congenital syphilis
6267005	Congenital syphilitic meningitis
266125005	Early congenital syphilis with symptoms
721583004	Mucocutaneous early congenital syphilis
1142095003	Late congenital syphilis of cardiovascular system
235898000	Pericellular fibrosis of congenital syphilis
1142031005	Optic atrophy due to late congenital syphilis
703134008	Hypoplasia of enamel due to congenital syphilis
866106004	Interstitial keratitis due to late congenital syphilis
1142112002	Sensorineural deafness due to late congenital syphilis
199154009	Maternal syphilis during pregnancy, childbirth and the puerperium
46235002	Early latent congenital syphilis, positive serology, negative spinal fluid
722118005	Congenital nephrotic syndrome due to congenital infection
271426000	Non-venereal endemic syphilis
232367004	Nasal syphilis
Chief Complaint	
"congenital siphilis" or "congenital syphylis" or "congenital syphylus" or "congenital syphilus" or "congenital siphylis" or "congenital siphilus" or "congenital syphilis"	
"congenital siphillis" or "congenital syphyllis" or "congenital syphyllus" or "congenital syphillus" or "congenital siphyllis" or "congenital siphillus" or "congenital syphillis"	
"congenital sifilis" or "congenital syfyilis" or "congenital syfyilus" or "congenital syfilus" or "congenital sifyilis" or "congenital sifilus" or "congenital syfilis"	

Table 2. ESSENCE syntax in the CCDD parsed field

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(,^s[iy]ph[iy]l[iu]^,OR,^s[iy]ph[iy]l[iu]^,OR,^s[iy]f[iy]l[iu]^,OR,^general paresis^,OR,^tabes^,OR,^;091[0-9];^,OR,^;092[09];^,OR,^;093[0-289];^,OR,^;094[0-389];^,OR,^;095[0-9];^,OR,^;096;^,OR,^;097[019];^,OR,^;A5[1-3]^,OR,^;0981[1-3]^,OR,^;76272004;^,OR,^;235062007;^,OR,^;72083004;^,OR,^;59530001;^,OR,^;444150000;^,OR,^;410478005;^,OR,^;50528008;^,OR,^;266127002;^,OR,^;8555001;^,OR,^;86028001;^,OR,^;713251003;^,OR,^;240555007;^,OR,^;237446005;^,OR,^;49923008;^,OR,^;240557004;^,OR,^;88943008;^,OR,^;278481001;^,OR,^;37430004;^,OR,^;186903006;^,OR,^;788998009;^,OR,^;28198007;^,OR,^;31015008;^,OR,^;232313005;^,OR,^;1010615002;^,OR,^;788975001;^,OR,^;186867005;^,OR,^;866115006;^,OR,^;197757004;^,OR,^;197966009;^,OR,^;83883001;^,OR,^;10345003;^,OR,^;54274001;^,OR,^;402947001;^,OR,^;27460003;^,OR,^;186847001;^,OR,^;58056005;^,OR,^;240568004;^,OR,^;67125004;^,OR,^;1052322008;^,OR,^;193786000;^,OR,^;77028001;^,OR,^;237447001;^,OR,^;197347003;^,OR,^;266128007;^,OR,^;59233003;^,OR,^;63751007;^,OR,^;186846005;^,OR,^;186861006;^,OR,^;80770009;^,OR,^;52414005;^,OR,^;45058001;^,OR,^;42770003;^,OR,^;60528006;^,OR,^;81339006;^,OR,^;51960003;^,OR,^;58227000;^,OR,^;838317007;^,OR,^;240556008;^,OR,^;1142099009;^,OR,^;197348008;^,OR,^;266136003;^,OR,^;402952006;^,OR,^;789121002;^,OR,^;266130009;^,OR,^;186854007;^,OR,^;860894002;^,OR,^;26039008;^,OR,^;870319003;^,OR,^;29500006;^,OR,^;1052296002;^,OR,^;104471000119105;^,OR,^;192647003;^,OR,^;59934002;^,OR,^;1052319006;^,OR,^;39085002;^,OR,^;15993351000119107;^,OR,^;85857008;^,OR,^;201738001;^,OR,^;1052321001;^,OR,^;15993311000119106;^,OR,^;870273007;^,OR,^;62861003;^,OR,^;1052300001;^,OR,^;402948006;^,OR,^;870347004;^,OR,^;66281009;^,OR,^;15993471000119105;^,OR,^;1052323003;^,OR,^;186850003;^,OR,^;402951004;^,OR,^;1142043006;^,OR,^;15993391000119102;^,OR,^;15677881000119106;^,OR,^;15677801000119103;^,OR,^;66887000;^,OR,^;15677841000119101;^,OR,^;186868000;^,OR,^;127058009;^,OR,^;405635002;^,OR,^;1107004;^,OR,^;31137003;^,OR,^;266129004;^,OR,^;64102008;^,OR,^;240558009;^,OR,^;240560006;^,OR,^;402949003;^,OR,^;711617002;^,OR,^;240562003;^,OR,^;736686006;^,OR,^;234017002;^,OR,^;20735004;^,OR,^;59307008;^,OR,^;202933002;^,OR,^;870293004;^,OR,^;410470003;^,OR,^;402943002;^,OR,^;16070004;^,OR,^;301086002;^,OR,^;55768006;^,OR,^;870331001;^,OR,^;4082005;^,OR,^;331151000119109;^,OR,^;10759921000119100;^,OR,^;34964002;^,OR,^;15679561000119100;^,OR,^;67391006;^,OR,^;11338007;^,OR,^;38523005;^,OR,^;3589003;^,OR,^;26135000;^,OR,^;15679481000119100;^,OR,^;22386003;^,OR,^;233849007;^,OR,^;371237000;^,OR,^;838317007;^,OR,^;240569007;^,OR,^;15685521000119100;^,OR,^;1177076006;^,OR,^;12232008;^,OR,^;82355002;^,OR,^;312934004;^,OR,^;866090003;^,OR,^;15685481000119100;^,OR,^;402941000;^,OR,^;402940004;^,OR,^;235032001;^,OR,^;68863007;^,OR,^;197305002;^,OR,^;15679681000119100;^,OR,^;4483005;^,OR,^;194947001;^,OR,^;230182006;^,OR,^;19206003;^,OR,^;230735006;^,OR,^;870319003;^,OR,^;240563008;^,OR,^;194907008;^,OR,^;1052296002;^,OR,^;61612001;^,OR,^;15685441000119100;^,OR,^;36276008;^,OR,^;235064008;^,OR,^;402950003;^,OR,^;94851000119107;^,OR,^;69595007;^,OR,^;44568006;^,OR,^;235065009;^,OR,^;240567009;^,OR,^;30080002;^,OR,^;62207008;^,OR,^;312955002;^,OR,^;75299005;^,OR,^;315826004;^,OR,^;186863009;^,OR,^;186875004;^,OR,^;186893003;^,OR,^;278480000;^,OR,^;77939001;^,OR,^;21523006;^,OR,^;186878002;^,OR,^;1177029002;^,OR,^;186877007;^,OR,^;402942007;^,OR,^;198175009;^,OR,^;302813001;^,OR,^;199154009;^,ANDNOT,(^congenital s[iy]ph[iy]l[iu]s^,OR,^congenital s[iy]ph[iy]l[iu]s^,OR,^congenital s[iy]f[iy]l[iu]s^,OR,^;090[0-79];^,OR,^;1040;^,OR,^;A50^,OR,^;A65^,OR,^;35742006;^,OR,^;87318008;^,OR,^;9941009;^,OR,^;192008;^,OR,^;27648007;^,OR,^;4359001;^,OR,^;86443005;^,OR,^;266126006;^,OR,^;82323002;^,OR,^;109436001;^,OR,^;1177081002;^,OR,^;10759921000119107;^,OR,^;827006;^,OR,^;186833000;^,OR,^;735515000;^,OR,^;6267005;^,OR,^;266125005;^,OR,^;721583004;^,OR,^;1142095003;^,OR,^;235898000;^,OR,^;1142031005;^,OR,^;703134008;^,OR,^;866106004;^,OR,^;1142112002;^,OR,^;199154009;^,OR,^;46235002;^,OR,^;722118005;^,OR,^;271426000;^,OR,^;232367004;^,)
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Use the following URL and click Configuration Options to see the query setup:

https://essence2.syndromicsurveillance.org/nssp_essence/servlet/TemporalTimeSeriesViewer?sessionAttributeID=5024_07_08_2025_14_56_17_8262