



Public Health  
England

# **Chlamydia Testing Activity Dataset**

## **Dataset Specification and Technical Guidance**

# About Public Health England

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HIV/STI Department  
Centre for Infectious Disease Surveillance & Control (CIDSC)  
Public Health England  
61 Colindale Avenue  
London NW9 5EQ  
Tel: 020 8200 4400  
<http://www.gov.uk/phe>  
[@PHE\\_uk](#)

Prepared by: CTAD team  
Version: 3.0

For queries relating to this document, please contact: [ctad@phe.gov.uk](mailto:ctad@phe.gov.uk)  
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# 1. Document Control

<b>Current version</b>	To provide guidance and specifications for the recording and extraction of CTAD data from laboratories in England processing LA/NHS commissioned chlamydia tests.		
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	Emma Hollis	All	12/12/2014
<b>Reviewers</b>	<b>Reviewer name</b>	<b>Section reviewed</b>	<b>Date reviewed</b>
	Kathy Lowndes	All	09/12/2014
	Ana Harb	All	01/10/2014
	Alireza Talebi	All	26/09/2014
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## 2. Background

The Chlamydia Testing Activity Dataset (CTAD) became a mandatory return in April 2012, superseding the National Chlamydia Screening Programme (NCSP) and the non-NCSP non-Genitourinary Medicine (GUM) (NNNG) data sources from primary care and community service chlamydia testing.

The purpose of CTAD is to collect data on all chlamydia tests undertaken in England from local authority (LA) / National Health Service (NHS) commissioned laboratories, to measure screening activity. These data are used to provide detailed reports, at a national and local level, on screening coverage, the proportion of chlamydia tests that are positive and the chlamydia diagnosis rate in England.

Since the Information Standard (ISB 1538) was approved in 2011 by the Information Standards Board for Health and Social Care (ISB), a number of amendments to the dataset are required to reflect changes in health boundaries and service delivery and improve data quality. This Information Standard has been revised to include one new item, an additional coding option within an existing item and retirement of one item, as outlined below. In addition, there are some minor changes to the NHS Data Dictionary coding options to two existing data items. These changes have now been accepted by the Standardisation Committee for Care Information (SCCI); the standard is SCCI1538.

The purpose of this document is to give an overview of the dataset specification. The information will be useful for laboratories, providers and commissioners.

Comprehensive guidance on completing and submitting the CTAD return for laboratory staff is available on the CTAD section of the HIV/STI [web portal](#)<sup>1</sup>.

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<sup>1</sup> [https://www.hpaweb services.org.uk/HIV\\_STI\\_WebPortal/Login.aspx](https://www.hpaweb services.org.uk/HIV_STI_WebPortal/Login.aspx)

## 3. Changes to the dataset

The aims of the minor changes to the dataset are:

- to remove and update the dependency on (now historic) Primary Care Trust (PCT) geographic boundaries
- to better understand screening practices across England
- to improve data quality and data accuracy

To fulfil these aims the following changes are proposed:

- Retire **PCT\_Testing\_Service** field  
The PCT geography is now disbanded. It is not considered appropriate to collect or request this information.
- New coding option for **testing\_service\_type** field  
Currently tests requested via the internet are included within the “other” code. The addition of code **06** for internet tests will allow for better understanding of screening practices across England. The proportion of testing done via the internet has expanded over the past few years. The addition of a code to identify it from “other” testing settings is an important step in monitoring use of internet services at the national and local level. It will also allow the **testing\_service\_type** field to be validated against local data for accuracy.
- New field **Venue\_code**  
This field will be populated with national site-specific codes namely Organisation Data Service (ODS) codes for GUM clinics, GPs, prisons etc. This will allow an improvement in the quality and accuracy of data. For some sites, for example outreach or tests requested via the internet, ODS codes will not be available.

## 4. Requirement

CTAD must be able to:

- provide data for surveillance of all LA/NHS commissioned chlamydia testing in England from data collected by laboratories in routine test processing procedures
- support submission to the previous specification for an introductory period of 6 months
- provide patient postcode of residence data for attribution of chlamydia tests by local authority of patient residence.

CTAD should be able to:

- attribute tests from all services and settings

- provide data to the quality detailed in the **commissioning specification**
- support SNOMED CT coding in the fields *specimen\_type* and *ct\_result*.

Sexual Health commissioners must:

- read and apply the specific requirements detailed in the CTAD commissioning guidance

Providers and laboratories must be able to:

- use reporting forms that are able to record information for all CTAD variables
- provide a suitable mechanism to identify the *testing\_service\_type* for all sites

## 5. Data Extract Specification

### 5.1. Description

The required fields, with their formatting, specifications, descriptions and definitions are given in appendices 1 - 3.

Each laboratory will be required to generate a quarterly disaggregated data extract of all chlamydia tests carried out using Nucleic Acid Amplification Tests (NAATs). The extract will include 20 data items.

All data items must be reported in full using the relevant codes for 'Not known' where appropriate. In the case that data items are not available in the laboratory, please refer to appendix 2 for relevant codes for 'Not known'.

### 5.2. Time Period and Frequency

The extract will cover one calendar quarter. A timetable for submission dates is published on the CTAD data [webpage](#)<sup>2</sup>.

- Q1: January 1<sup>st</sup> – March 31<sup>st</sup>
- Q2: April 1<sup>st</sup> – June 30<sup>th</sup>
- Q3: July 1<sup>st</sup> – September 30<sup>th</sup>
- Q4: October 1<sup>st</sup> – December 31<sup>st</sup>

Reports will be run quarterly, 6 weeks after the end of the quarter.

### 5.3. Conformance

Data elements for this dataset are considered either required or mandatory (see Appendix 1).

- Required: required as part of NHS business rules and **should** be included where available or applicable
- Mandatory: **must** be provided. The data extract will be rejected if this data element is missing at submission.

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<sup>2</sup> <http://www.chlamydia-screening.nhs.uk/ps/info-management.asp>

## 5.4. Transmission

Data must be submitted electronically to the CTAD team at Public Health England (PHE) through the secure HIV & STI Web Portal (HSWP). Use of the portal requires a username and password which can be obtained from the CTAD team at PHE Colindale. The portal supports the Secure Sockets Layers (SSL) method of communication. Requests for user accounts should be sent to: [ctad@phe.gov.uk](mailto:ctad@phe.gov.uk). The portal can be found at:

[https://www.hpaweb services.org.uk/HIV\\_STI\\_WebPortal/Login.aspx](https://www.hpaweb services.org.uk/HIV_STI_WebPortal/Login.aspx)

## 5.5. Coding and formatting

All fields and coding are defined using the NHS data dictionary (Appendix 4).

Data extracts may be formatted into a comma delimited CSV or XML file. An example of the field content is also shown and is used to illustrate how the data should appear in the file (Appendix 3).

### 5.5.1. Macro formatting tool

A reformatting tool is available to improve quality of CTAD submissions (Current version is version 2.0). A user guide is available on the CTAD information management webpage on the NCSP [website](#)<sup>3</sup>. It is designed to be run prior to submission in order to reformat the data, in the following fields, into the correct format. The tool can also be used to link local codes to the codes required for CTAD. Version 3.0 of the macro is scheduled for publication in December 2014 and will function to make the following improvements to a file:

Data field	Reformatting
Lab_ID	Auto-completes Lab ID in the first column (optional).
Test_ID	Counts empty cells and shows the result at the end of reformatting.
NHS_number	Removes spaces, hyphens and underscores.
Gender	If local codes are set up it reformats them to CTAD specification requirements.
Ethnicity	Input a local code lookup for auto reformatting to CTAD specification requirements. Auto-inserts "99" code (Not known) into blank cells.
Postcode_residence	Auto-inserts "ZZ993WZ" (Not known) into blank

<sup>3</sup> <http://www.chlamydia screening.nhs.uk/ps/data.asp>

Postcode_GP Postcode_testing_service	cells.
Registered_GP_code	Auto-inserts "V81999" (Not known) into blank cells.
Venue_code	Auto-inserts "ZZ9999999" (Not known) into blank cells.
Specimen_type	Input a local code lookup for auto reformatting to CTAD specification requirements. Counts empty cells and shows the result at the end of reformatting.
Testing_service_type	Input a local code lookup for auto reformatting to CTAD specification requirements. Auto-inserts "99" (Not known) into blank cells.
Ct_result	Input a local code lookup for auto reformatting to CTAD specification requirements.
DOB Specimen_date Receipt_date Date_result_authorised	Reformats dates to CCYY-MM-DD.

### 5.5.2. Venue code

This data item will be included in the dataset from January 1 2015. The purpose is to provide information about the specific venue where the test was taken or picked up. An Organisation Data Service (ODS) Code should be entered. These are available for many sites where chlamydia testing is offered, for example GUM clinics and GP surgeries. A lookup table for venues with ODS codes is found within the CTAD site lookup file available on our [website](#) (due for publication December 2014). For venues without an ODS code please use "ZZ9999998" (not available) or where one cannot be determined from the information provided please use "ZZ9999999" for unknown. Note a choice of two fields may be entered here (see appendix 1 & 3).

### 5.5.3. Testing service type

Accurate coding of the testing service where the test was carried out or picked up from is essential to ensure that the data published reflect testing behaviours in different venues. Tests should be coded as either; GUM; community sexual health service (CSHS); General Practice (GP); Pharmacy; termination of pregnancy (ToP); Internet (new category) or Other. Tests requested through a texting or postal system should be included in the Internet category. If the testing service type is not clear from the test request form, please contact the provider to clarify how tests from the venue should be coded in CTAD.

Note: Tests coded as GUM in CTAD are removed and substituted with GUM tests reported via the GUMCAD reporting system to enable publication of data by local authority area of residence. Correct substitution relies on accurate coding of testing service type by laboratories reporting to CTAD.

#### 5.5.4. Postcode of residence

Data are attributed to lower tier local authorities (LTLA) using patient postcode of residence. If this is not provided, other reported location data are used such as the postcode of the testing service. However, if the LTLA where the patient was tested differs from the LTLA where they live then attribution will be inaccurate. For this reason, please ensure that patient postcode of residence information is specified on the test request form and entered onto the computer system at the laboratory for all tests except those taken in GUM settings.

#### 5.5.5. SNOMED CT coding

The data dictionary has been amended to allow use of SNOMED CT coding for two variables in the CTAD dataset; *specimen\_type* (*chlamydia testing*) and *ct\_result*. The coding has been added to reflect a move towards more regulated and unified coding nationally. Use of SNOMED CT coding in CTAD is currently optional and files using both types of coding will be accepted.

### 5.6. Inclusion criteria

- **Private Tests**

All private tests for chlamydia should be excluded. However, LA/NHS commissioned tests sent to a private laboratory for testing should be included.

- **De-duplication of records**

The laboratory should submit all tests processed and PHE will perform de-duplication of records. Any automatic de-duplication procedure that is performed by the laboratory prior to data submission should be reported with details when data is submitted.

- **Equivocal, inhibitory test results and insufficient samples**

All equivocal, inhibitory and insufficient chlamydia test results should be included in the data submission. 'Equivocal' test results are defined as tests with an unconfirmed initially reactive sample or invalid tests with unconfirmed reactive or unconfirmed positive results. 'Inhibitory' test results are defined as tests with an indeterminate test result. 'Insufficient' samples are those which do not have enough sample present to test.

- **Specimen types**

All *Chlamydia trachomatis* specimens should be reported. Tests for *Chlamydia suis* and *Chlamydia muridarum* should not be reported.

Submissions should include only chlamydia samples which have been transmitted sexually. This includes genital (i.e. urine samples, vulvovaginal swabs, cervical swabs, urethral swabs), rectal and pharyngeal samples. Any conjunctival chlamydial samples should be excluded.

## Appendix 1: Summary of CTAD dataset

Position*	Field Name	Description	NHS Data Dictionary Data Element	Format	Example	Conformance
1	Lab_ID	Laboratory ID code.	<b>LABORATORY CODE</b>	AN(5)	690F0	Mandatory <b>Must</b> be included
2	Test_ID	Test specific identifier number.	<b>TEST IDENTIFIER (CHLAMYDIA TESTING)</b>	AN(20)	V669157	Mandatory <b>Must</b> be included
3	Patient_ID	Unique patient identifier number.	<b>LOCAL PATIENT IDENTIFIER (EXTENDED)</b>	AN(20)	PAT123	Required <b>Should</b> be included
4	NHS_Number	Unique number assigned by NHS to all registered patients.	<b>NHS NUMBER</b>	AN(10)	1234567890	Required <b>Should</b> be included
5	NHS_Number_Status_Indicator	Status of the unique number assigned by NHS to all registered patients.	<b>NHS NUMBER STATUS INDICATOR CODE</b>	AN(2)	01	Required <b>Should</b> be included
6	Gender	Gender.	<b>PERSON STATED GENDER CODE</b>	AN(1)	1	Mandatory <b>Must</b> be included
7	DOB	Date of birth.	<b>PERSON BIRTH DATE</b>	AN(10)	1980-09-01	Required <b>Should</b> be included
8	Ethnicity	Patient's ethnic category.	<b>ETHNIC CATEGORY</b>	AN(2)	A	Mandatory <b>Must</b> be included
9	Postcode_Residence	Patient postcode of residence.	<b>POSTCODE OF USUAL ADDRESS</b>	AN(8)	SW27 3WW	Mandatory <b>Must</b> be included
10	Postcode_GP	Postcode of general practice.	<b>POSTCODE OF GENERAL MEDICAL PRACTICE (PATIENT REGISTRATION)</b>	AN(8)	SW27 3LL	Mandatory <b>Must</b> be included

Position*	Field Name	Description	NHS Data Dictionary Data Element	Format	Example	Conformance
11	Registered_GP_Code	National organisation code of registered general practice.	<b>GENERAL MEDICAL PRACTICE CODE (PATIENT REGISTRATION)</b>	AN(6)	Y00001	Mandatory <b>Must</b> be included
12	Postcode_Testing_Service	Postcode of testing service.	<b>POSTCODE OF TESTING SERVICE (CHLAMYDIA TESTING)</b>	AN(8)	SW27 3SS	Mandatory <b>Must</b> be included
13	Venue_code	The national site specific organisation code of the testing site.	<b>SITE CODE (PROVIDER OF CHLAMYDIA TEST) OR ORGANISATION CODE (PROVIDER OF CHLAMYDIA TEST)</b>	Min AN(5) Max AN(9) AN(3), AN(4) or AN(6)	RC367	Required <b>Should</b> be included
14	Specimen_Type	Specimen type.	<b>SPECIMEN TYPE (CHLAMYDIA TESTING) OR SPECIMEN TYPE (CHLAMYDIA TESTING SNOMED CT)</b>	N(2)  Min N(6) Max N(18)	01  390785003	Mandatory <b>Must</b> be included
15	Testing_Service_Type	Type of testing service.	<b>SERVICE TYPE (CHLAMYDIA TESTING)</b>	AN(2)	03	Mandatory <b>Must</b> be included
16	NCSP_Clinic_Code	NCSP clinic code.	<b>CLINIC CODE (NATIONAL CHLAMYDIA SCREENING PROGRAMME)</b>	AN(10)	5A1FA	Required <b>Should</b> be included
17	Specimen_Date	Date specimen taken	<b>SAMPLE COLLECTION DATE</b>	AN(10)	2007-10-29	Required <b>Should</b> be included
18	Receipt_Date	Date specimen received by laboratory.	<b>SAMPLE RECEIPT DATE</b>	AN(10)	2007-10-31	Mandatory <b>Must</b> be included
19	Date_Result_Authorised	Date result was authorised at the laboratory.	<b>INVESTIGATION RESULT DATE</b>	AN(10)	2007-10-31	Required <b>Should</b> be included
20	CT_Result	Result of chlamydia test.	<b>CHLAMYDIA TEST RESULT OR CHLAMYDIA TEST RESULT (SNOMED CT)</b>	N(2)  Min N(6) Max N(18)	02  413079006	Mandatory <b>Must</b> be included

\*Refers to the horizontal position of the field within CSV format

## Appendix 2: CTAD conformance

To meet the requirements of the CTAD dataset the submission must follow conformance as detailed in appendix 1.

### CTAD submitters **must**:

- Submit all data items identified in appendix 1 as mandatory
- Make sure a suitable system is in place at the lab to identify the testing sites/settings where the tests processed come from and a method of recording this information
- Ensure microbiology forms or other reporting forms used by the lab or provider for chlamydia samples collect the mandatory CTAD information.
- Provide data in either a .csv or .xml format

### CTAD submitters **should**:

- Use the CTAD reformatting tool (macro) to ensure consistency in the data submitted and improve data quality
- Liaise with providers and CTAD national team where problems arise in the quality of data sent to the lab or if there are problems in coding or extracting the data
- Use coding for “unknown” for data items where the information has not been provided to the lab

### Sexual health commissioners **must**:

- clearly specify all 20 CTAD variables with targets for completion and quality in contracts with providers and/or labs

### Sexual health commissioners **should**:

- ensure that providers and laboratories are supplied with the necessary guidance to fulfil dataset requirements
- check that current contract arrangements are sufficient to meet CTAD requirements and take steps to amend those which are not wherever possible

### Providers **must**:

- inform the laboratory if the site service type or setting changes in terms of the category to be assigned for the CTAD *testing service type*
- ensure if they are using their own test request forms that they are suitable for collection of all mandatory CTAD information

## Appendix 3: Example of CSV and XML formatting

An example of the field content for one row of data is shown below and is used to illustrate how the data should appear in the CSV and XML file formats. Files that do not comply with one of the required formats will be rejected when submitted to PHE.

### CSV Example

One record:

Lab\_ID,Test\_ID,Patient\_ID,NHS\_number,NHS\_Number\_Status\_Indicator,Gender,DOB,Ethnicity,Postcode\_Residence,Postcode\_GP,Registered\_GP\_Code,Postcode\_Testing\_Service,Venue\_code,Specimen\_Type,Testing\_Service\_Type,NCSP\_Clinic\_Code,Specimen\_Date,Receipt\_Date,Date\_Result\_Authorised,CT\_Result

69F20,GH10,ZML11384552,1234567890,03,2,1922-10-01,C,NW9 5EQ,NW9 5EQ,V81999,NW9 5EQ,3ENUHBDDET,3,03,5HG42,2011-01-01,2011-04-01,2011-05-01,02

### XML Example

XML data files submitted to CTAD should adhere to the following file naming convention:

**CTAD\_LLLLL\_QN\_YYYY.xml**

Where:       CTAD is fixed  
               LLLLL is the 5 character laboratory code  
               QN is the reporting quarter Q1, Q2, Q3, Q4  
               YYYY is the reporting year (e.g. 2012)

One record:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<CTAD >
  <CTest>
    <lab>69F20</lab>
    <testid>GH10</testid>
    <patid>ZML11384552</patid>
    <NHS>1234567890</NHS>
    <NHSi>3</NHSi>
    <gen>2</gen>
    <DOB>1922-10-01</DOB>
    <eth>c</eth>
    <pc>NW9 5EQ</pc>
    <pcgp>NW9 5EQ</pcgp>
    <gp>V81999</gp>
    <pcts>NW9 5EQ</pcts>
    <tsvenue>3ENUHBDDET</tsvenue>
```

```
<spe>3</spe>
<tst>03</tst>
<NCSP>5HG42</NCSP>
<spd>2011-01-01</spd>
<red>2011-04-01</red>
<auth>2011-05-01</auth>
<res>2</res>
</CTest>
</CTAD>
```

Please note that the format of a file containing multiple records should be as below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<CTAD >
  <CTest>
    Record 1 data as described above
  </CTest>
  <CTest>
    Record 2 data as described above
  </CTest>
  <CTest>
    Record 3 data as described above
  </CTest>
  .
  .
  .
  .
</CTAD>
```

## Appendix 4: Coding Specification for CTAD Extract

Data item	NHS data dictionary name and description	CTAD specific requirements
Lab_ID	<p><b>LABORATORY CODE</b>  <b>Format: an5</b> e.g. 69999</p> <p>A unique identifier for a <b>LABORATORY</b>. Pathology Laboratory Codes are maintained and issued by the <a href="#">Organisation Data Service</a>.</p>	
Test_ID	<p><b>TEST IDENTIFIER (CHLAMYDIA TESTING)</b>  <b>Format: an20</b> e.g. V669157</p> <p>A unique identifier of the chlamydia test performed.</p>	This must be unique per test within each quarterly submission to allow for accurate de-duplication of records.
Patient_ID	<p><b>LOCAL PATIENT IDENTIFIER (EXTENDED)</b>  <b>Format: an20</b> e.g. PAT123</p> <p>This is a number used to identify a <b>PATIENT</b> uniquely within a <a href="#">Health Care Provider</a>. It may be different from the <b>PATIENT</b>'s casenote number and may be assigned automatically by the computer system.</p> <p>Where care for NHS patients is sub-commissioned in the independent sector or overseas, the NHS commissioner PAS Number should be used. If no NHS PAS Number has been assigned the independent sector or overseas PAS Number should be used.</p>	<p>Where available this should be the patient identification number assigned by the provider, for example, the patient ID from the GUM clinic.</p> <p>If the provider patient identifier is not available then the lab assigned patient identification number should be used.</p>

NHS_Number	<p><b>NHS NUMBER</b>  <b>Format: an10</b> e.g. 1234567890</p> <p>The <b>NHS NUMBER</b>, the primary identifier of a <b>PERSON</b>, is a unique identifier for a <b>PATIENT</b> within the NHS in England and Wales.  This will not vary by any <b>ORGANISATION</b> of which a <b>PERSON</b> is a <b>PATIENT</b>.</p> <p>It is mandatory to record the <b>NHS NUMBER</b>. There are exceptions, such as Accident and Emergency care, sexual health and major incidents, as defined in existing national policies.</p> <p>The <b>NHS NUMBER</b> is 10 numeric digits in length. The tenth digit is a check digit used to confirm its validity. The check digit is validated using the Modulus 11 algorithm and the use of this algorithm is mandatory. There are 5 steps in the validation of the check digit:</p>	
NHS_Number_Status_Indicator	<p><b>NHS NUMBER STATUS INDICATOR CODE</b>  <b>Format: an2</b> e.g. 01  <i>Permitted National Codes:</i></p> <ul style="list-style-type: none"> <li>01 Number present and verified</li> <li>02 Number present but not traced</li> <li>03 Trace required</li> <li>04 Trace attempted - No match or multiple match found</li> <li>05 Trace needs to be resolved - (NHS Number or <b>PATIENT</b> detail conflict)</li> <li>06 Trace in progress</li> <li>07 Number not present and trace not required</li> <li>08 Trace postponed (baby under six weeks old)</li> </ul>	
Gender	<p><b>PERSON STATED GENDER CODE</b>  <b>Format: an1</b> e.g.1</p> <ul style="list-style-type: none"> <li>1 Male</li> <li>2 Female</li> <li>9 Intermediate (unable to be classified as either male or female)</li> </ul>	

DOB	<p><b>PERSON BIRTH DATE</b>  <b>Format: an10 CCYY-MM-DD</b> e.g. 1980-09-01</p> <p>The date on which a <b>PERSON</b> was born or is officially deemed to have been born.</p>																																																									
Ethnicity	<p><b>ETHNIC CATEGORY</b>  <b>Format: an2</b> e.g.A</p> <p>The ethnicity of a <b>PERSON</b>, as specified by the <b>PERSON</b>. Note: <b>ETHNIC CATEGORY</b> is the classification used for the 2001 census. The <a href="#">Office for National Statistics</a> has developed a further breakdown of the group from that given, which may be used locally.</p> <table border="0"> <tr> <td colspan="2"><u>White</u></td> <td colspan="2"><u>Asian or Asian British</u></td> </tr> <tr> <td>A</td> <td>British</td> <td>H</td> <td>Indian</td> </tr> <tr> <td>B</td> <td>Irish</td> <td>J</td> <td>Pakistani</td> </tr> <tr> <td>C</td> <td>Any other White background</td> <td>K</td> <td>Bangladeshi</td> </tr> <tr> <td></td> <td></td> <td>L</td> <td>Any other Asian background</td> </tr> <tr> <td colspan="2"><u>Mixed</u></td> <td colspan="2"><u>Black or Black British</u></td> </tr> <tr> <td>D</td> <td>White and Black Caribbean</td> <td>M</td> <td>Caribbean</td> </tr> <tr> <td>E</td> <td>White and Black African</td> <td>N</td> <td>African</td> </tr> <tr> <td>F</td> <td>White and Asian</td> <td>P</td> <td>Any other Black background</td> </tr> <tr> <td>G</td> <td>Any other mixed background</td> <td></td> <td></td> </tr> <tr> <td colspan="4"><u>Other Ethnic Groups</u></td> </tr> <tr> <td>R</td> <td>Chinese</td> <td></td> <td></td> </tr> <tr> <td>S</td> <td>Any other ethnic group</td> <td></td> <td></td> </tr> <tr> <td>Z</td> <td>Not stated</td> <td></td> <td></td> </tr> </table> <p>National code Z - Not Stated should be used where the <b>PERSON</b> has been given the opportunity to state their <b>ETHNIC CATEGORY</b> but chose not to.</p>	<u>White</u>		<u>Asian or Asian British</u>		A	British	H	Indian	B	Irish	J	Pakistani	C	Any other White background	K	Bangladeshi			L	Any other Asian background	<u>Mixed</u>		<u>Black or Black British</u>		D	White and Black Caribbean	M	Caribbean	E	White and Black African	N	African	F	White and Asian	P	Any other Black background	G	Any other mixed background			<u>Other Ethnic Groups</u>				R	Chinese			S	Any other ethnic group			Z	Not stated			
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Postcode_Residence	<p><b>POSTCODE OF USUAL ADDRESS</b>  <b>Format: an8</b> e.g. SW27 3WW</p> <p><b>POSTCODE OF USUAL ADDRESS</b> is the <b>POSTCODE</b> of the <b>ADDRESS</b> nominated by the <b>PATIENT</b></p> <p>If a <b>POSTCODE</b> is not known (for example, the <b>PATIENT</b> has no fixed abode, the <b>PATIENT</b> is an <b>Overseas Visitor</b> etc.) the appropriate <b>Organisation Data Service</b> pseudo <b>POSTCODE</b> should be used. The pseudo <b>POSTCODES</b> can be found on the <b>Organisation Data Service</b> website at: <b>Look Ups</b>.</p>	<p>Default codes:</p> <p>ZZ99 3WZ  The postcode of usual address is not known or not stated</p> <p>ZZ99 3VZ  The patient has no fixed abode</p> <p>ZZ99 naZ  For overseas visitors use the relevant country pseudo postcode commencing ZZ99 followed by a numeric then an alpha character, then a Z. For example ZZ99 6CZ is the pseudo-postcode for India. Pseudo-Country postcodes can be found in the <b>NHS Postcode Directory</b></p>
Postcode_GP	<p><b>POSTCODE OF GENERAL MEDICAL PRACTICE (PATIENT REGISTRATION)</b>  <b>Format: an8</b> e.g. SW27 3LL</p> <p>The <b>POSTCODE</b> of the address of the primary <b>General Medical Practitioner Practice</b> where the <b>PERSON</b> is registered.</p>	

Registered_GP_Code	<p><b>GENERAL MEDICAL PRACTICE CODE (PATIENT REGISTRATION)</b>  <b>Format: an6</b> e.g. Y00001</p> <p>The <b>ORGANISATION CODE</b> of the <b>GP Practice</b> that the <b>PATIENT</b> is registered with.</p> <p><b>Use of Organisation Data Service Default Codes</b>  <b>V81997</b> should be used when a <b>PATIENT</b> presents, who is not currently registered at a <b>GP Practice</b>, <i>but is eligible to be registered should they wish to.</i>  <b>V81998</b> should be used where a <b>PATIENT</b> should not have a registered <b>GP Practice</b>, due for instance to them having only recently entered the country.  <b>V81999</b> should be used where it is not possible to determine a <b>PATIENT's</b> registered <b>GP Practice</b> code, but it is known that they should have one, or where it is impossible to determine whether they should or shouldn't have a registered practice (for instance the <b>PATIENT</b> cannot communicate and is unidentified).</p>	The general medical practice that the patient is registered with
Postcode_Testing_Service	<p><b>POSTCODE OF TESTING SERVICE (CHLAMYDIA TESTING)</b>  <b>Format: an8</b> e.g. SW27 3SS</p> <p>This is the <b>POSTCODE</b> of the <b>ORGANISATION</b> where the chlamydia test <b>SAMPLE</b> was taken.</p>	<p>This should be the postcode of where the test was taken or picked up. For internet test kits, please use the postcode of the lab as default.</p> <p>If the test was in a GP setting then the postcode of the GP surgery should be in this field as well as in the Postcode_GP field.</p>

Venue_code	<p><b>SITE CODE (PROVIDER OF CHLAMYDIA TEST)</b>  <b>Format: Min an5 max an9</b> e.g. RC367</p> <p><i>or</i></p> <p><b>ORGANISATION CODE (PROVIDER OF CHLAMYDIA TEST)</b>  <b>Format: an3, an4, an6</b> e.g. ZZ9999</p> <p>An identifier for a <b>CLINIC OR FACILITY</b>.  An Organisation Data Service (<b>ODS</b>) Code should be entered. This code can be ascertained direct from ODS:  <a href="http://systems.hscic.gov.uk/data/ods">http://systems.hscic.gov.uk/data/ods</a></p>	<p>This is a unique code assigned by ODS and includes sites such as GUM clinics, GP surgeries, healthcare venues, pharmacies and prisons.</p> <p>An ODS site code lookup is available on the CTAD information management <a href="#">webpage</a>.</p> <p>ODS codes are not available for all sites and testing types, for example internet tests. In these circumstances use  ZZ9999998 - Not applicable</p> <p>Where an ODS code is not provided and cannot be determined from other information available use  ZZ9999999 - Not known</p>
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Specimen_Type	<p><b>SPECIMEN TYPE (CHLAMYDIA TESTING)</b>  <b>Format: an2</b> e.g. 01</p> <p>The type of specimen used for Chlamydia testing. Any conjunctiva chlamydia <b>SAMPLES</b> should be excluded.</p> <p><i>National Codes:</i></p> <p>01 Urine  02 Genital  03 Rectal  04 Pharyngeal</p> <p><b><u>OR</u></b></p> <p><b>SPECIMEN TYPE (CHLAMYDIA TESTING SNOMED CT)</b>  <b>Format: min n6 max n18</b> e.g. 390785003</p> <p><i>SNOMED CT codes:</i></p> <p>390785003 urethral chlamydia swab (procedure)  285589007 endocervical swab (procedure)  776591000000105 throat swab for chlamydia (procedure)  472859009 taking anal swab for chlamydia (procedure)  412761009 urine screen for chlamydia (procedure)</p>	Either type of coding will be accepted into the dataset.
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Testing_Service_Type	<p><b>SERVICE TYPE (CHLAMYDIA TESTING)</b>  <b>Format: an2</b> e.g. 03</p> <p>The type of <b>SERVICE</b> providing chlamydia testing.</p> <p>01 Genitourinary Medicine Services Includes testing done in Genitourinary Medicine clinics reported to <a href="#">Genitourinary Medicine Clinic Activity Data Set (GUMCAD)</a>.</p> <p>02 Community Sexual Health Services Includes testing carried out in <a href="#">Sexual and Reproductive Health Services/Contraception and Sexual Health (CASH)</a> services/Community Contraceptive Services excludes Contraceptive Services within <a href="#">GP Practices</a>. Includes young <b>PERSON</b>'s sexual health services e.g. Brook clinics and SexSense. It also includes pre-instrumentation screening e.g. Intrauterine Devices where undertaken at CASH services and postal kits handed out at community sexual health services.</p> <p>03 General Medical Practitioner Practice Includes post kits handed out at the <a href="#">GP Practice</a>.</p> <p>04 Pharmacy Premises Includes testing carried out in community pharmacies, including post kits handed out at the pharmacy.</p> <p>05 Termination of Pregnancy (TOP) Services Includes testing undertaken in TOP services at all stages including medical and surgical. Includes all NHS and private providers including British Pregnancy Advice Service (BPAS), Marie Stopes and Pregnancy Crisis Centre. It also includes post kits handed out in TOP Services.</p> <p>06 Internet Includes all tests sourced via the internet.</p> <p>XX Other Any other testing service type which does not fit into categories 01 - 05 e.g. chlamydia screening offices, antenatal and obstetric services, military, education, occupational health, prison, youth services, outreach, accident and emergency, minor injuries, NHS walk-in centres and <a href="#">Hospitals</a>.</p>	<p>Where the testing service type is unknown or unverified please check the chlamydia testing venue site lookup on the <a href="#">NCSP website</a>. If further clarification is required liaise with the provider to assign the correct testing service type to each testing venue.</p> <p>Tests requested through a texting system should be included in the Internet category.</p>
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NCSP_Clinic_Code	<p><b>CLINIC CODE (NATIONAL CHLAMYDIA SCREENING PROGRAMME)</b>  <b>Format: an10</b> e.g. 5A1FA</p> <p>The <b>CLINIC OR FACILITY CODE</b> (allocated by <b>Public Health England</b>) of the clinic performing the chlamydia test.</p>	<p>A unique identifier previously used by venues participating in the NCSP. Codes assigned by PHE via a web based facility. All NCSP clinic codes are categorised into 16 different venue types.</p> <p>This coding system is no longer maintained or verified. Testing service type should not be assigned from these codes alone.</p>
Specimen_Date	<p><b>SAMPLE COLLECTION DATE</b>  <b>Format: an10</b> CCYY-MM-DD e.g. 2007-10-29</p> <p>The date that a <b>SAMPLE</b> collection takes place or the start of a period for <b>SAMPLE</b> collection.</p>	
Receipt_Date	<p><b>SAMPLE RECEIPT DATE</b>  <b>Format: an10</b> CCYY-MM-DD e.g. 2007-10-31</p> <p>The date of receipt of a <b>SAMPLE</b> by a <b>LABORATORY</b>.</p>	

<p>Date_Result_Authorised</p>	<p><b>INVESTIGATION RESULT DATE</b>  <b>Format: an10 CCYY-MM-DD e.g. 2007-10-31</b></p> <p>The date on which an investigation was concluded e.g. the date the result was authorised.</p>	
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<p>CT_Result</p>	<p><b>CHLAMYDIA TEST RESULT</b>  <b>Format: an2</b> e.g.02</p> <p>The result of the chlamydia test undertaken.</p> <p>01 Positive                  02 Negative                  03 Equivocal - tests with an unconfirmed initially reactive sample or invalid tests with unconfirmed reactive or unconfirmed positive results                  04 Insufficient specimen - samples which do not have enough sample present to test                  05 Inhibitory result - tests with an indeterminate test result                  XX Other - tests can not be categorised as options 01 - 05: Unable to process sample</p> <p><b><u>OR</u></b></p> <p><b>CHLAMYDIA TEST RESULT (SNOMED CT)</b>  <b>Format: min n6 max n18</b> e.g. 201431000000103</p> <p><b>CHLAMYDIA TEST RESULT (SNOMED CT)</b> is the SNOMED CT concept ID which is used to identify the result of the Chlamydia test.</p> <table border="0"> <tr> <td>201441000000107</td> <td>chlamydia test positive (finding)</td> </tr> <tr> <td>413079006</td> <td>Chlamydia polymerase chain reaction positive (finding) Chlamydia antigen enzyme-linked immunosorbent assay positive (finding)</td> </tr> <tr> <td>314527009</td> <td>urine chlamydia trachomatis test positive (finding)</td> </tr> <tr> <td>415798001</td> <td>chlamydia test negative (finding)</td> </tr> <tr> <td>201431000000103</td> <td>Chlamydia polymerase chain reaction negative (finding) Chlamydia antigen enzyme-linked immunosorbent assay negative (finding)</td> </tr> <tr> <td>314526000</td> <td>urine chlamydia trachomatis test negative (finding)</td> </tr> <tr> <td>415797006</td> <td>chlamydia test equivocal (finding)</td> </tr> <tr> <td>247371000000107</td> <td>specimen unsatisfactory for evaluation (finding)*</td> </tr> <tr> <td>125154007</td> <td>inhibition of nucleic acid amplification test for Chlamydia trachomatis (finding)</td> </tr> <tr> <td>448374002</td> <td></td> </tr> </table>	201441000000107	chlamydia test positive (finding)	413079006	Chlamydia polymerase chain reaction positive (finding) Chlamydia antigen enzyme-linked immunosorbent assay positive (finding)	314527009	urine chlamydia trachomatis test positive (finding)	415798001	chlamydia test negative (finding)	201431000000103	Chlamydia polymerase chain reaction negative (finding) Chlamydia antigen enzyme-linked immunosorbent assay negative (finding)	314526000	urine chlamydia trachomatis test negative (finding)	415797006	chlamydia test equivocal (finding)	247371000000107	specimen unsatisfactory for evaluation (finding)*	125154007	inhibition of nucleic acid amplification test for Chlamydia trachomatis (finding)	448374002		<p>Either type of coding will be accepted into the dataset.</p>
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\*AN = Alpha-numeric, N = Numeric, A = Character. Number in brackets denotes the string length. Code entries which are shorter than the string length should not include leading/trailing zeroes or spaces

## Appendix 5: Submission validation

The CTAD system has been designed in such a way that all data validation is done after a file is submitted to the **CTAD portal**<sup>4</sup>. For this reason there is no validation of data included in the .xml schema. Data must conform to the format defined appendices 1,3 and 4 to be accepted. The CTAD portal software validates submissions to check that the specification is met. If data does not conform, the following error messages are sent to the submitter:

Error Code	Error Message
1	Dataset is not in CSV/XML format
2	Incorrect field name
3	Data fields are not the correct data type or data format
4	Data fields have a null value
5	1 or more cells contain unrecognised codes (reference look-up tables)
6	Data from outside of specified quarter
7	The reported specimen date is later than the receipt date
8	The reported authorized date is earlier than the receipt date
9	Duplicate test ID in the current dataset
10	Duplicate data record in the current dataset
11	Age out of range of acceptable values i.e. Invalid age = 200
12	Date covers more than 1 calendar quarter
13	Errors account for more than 10% of the data

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<sup>4</sup> [https://www.hpaweb services.org.uk/HIV\\_STI\\_WebPortal/Login.aspx](https://www.hpaweb services.org.uk/HIV_STI_WebPortal/Login.aspx)