

# Lookups and mapping files – field names and definitions

Version 4 – June 2023

## Introduction

Primary Care data in this UK Biobank interim data release contains codes from clinical coding classification systems, but not the text describing the code. Researchers using data provided by UK Biobank will need code lookup tables to obtain text descriptions for the codes used in the data and mapping tables to translate codes between coding systems. Spreadsheets have been provided to help researchers select the codes required to identify sets of patients with specific diseases, conditions, or other features of interest: see accompanying '*all\_lkps\_maps\_v4.xlsx*' file. This document provides tables for each, showing field names and descriptions. Information sources, copyright information and acknowledgements, variable names and descriptions have also been provided, where possible.

**What's new in this version:** Previous versions of the spreadsheet, including version 3 (May 2021), contained an incorrect ICD-9 code 0794 described as "HUMAN IMMUNODEFICIENCY VIRUS (HIV POSITIVE)". This also appeared in the mapping sheets. This code has now been removed from all worksheets.

## Contents

BNF table .....	2
bnf_lkp   BNF version: 76.....	2
DM+D table.....	4
dmd_lkp   dm+d version: May 2019 release .....	4
ICD-9 and ICD-10 tables .....	5
icd9_lkp   ICD-9 version: April 1995 release .....	5
icd10_lkp   ICD-10 version: 5 <sup>th</sup> edition.....	5
icd9_icd10   ICD-9 version: April 1995 release   ICD-10 version: April 1995 release .....	6
Read V2 and CTV3 tables .....	7
read_v2_lkp   Read V2 version: April 2016 release .....	8
read_v2_drugs_lkp   Read V2 drugs version: April 2016 release .....	8
read_v2_icd9   Read V2 drugs version: April 2016 release   ICD-9 version: April 1995 release .....	8
read_v2_icd10   Read V2 version: April 2016 release   ICD-10 version: 5 <sup>th</sup> edition.....	8
read_v2_opcs4   Read V2 version: April 2016 release   OPCS-4 version: 4.7 .....	9
read_v2_drugs_bnf   Read V2 version: April 2016 release   BNF version: 68.....	9
read_v2_read_ctv3   Read V2 version: April 2016 release   Read CTV3 version: April 2018 release .....	9
read_ctv3_lkp   Read CTV3 version: April 2018 release .....	10
read_ctv3_icd9   Read CTV3 version: April 2018 release   ICD-9 version: April 1995 release .....	10
read_ctv3_read_v2   Read CTV3 version: April 2018 release   Read V2 version: April 2016 release .....	11
read_ctv3_icd10   Read CTV3 version: April 2018 release   ICD-10 version: 5 <sup>th</sup> edition .....	12
read_ctv3_opcs4   Read CTV3 version: April 2018 release   OPCS-4 version: 4.8 .....	13

## BNF table

Information sources used for the BNF lookup table descriptions:

<https://ebmdatalab.net/prescribing-data-bnf-codes/>

<https://digital.nhs.uk/data-and-information/areas-of-interest/prescribing/practice-level-prescribing-in-england-a-summary/practice-level-prescribing-glossary-of-terms>

<https://www.bnf.org/>

BNF codes available for download here, from the NHS Business Services Authority: <https://apps.nhsbsa.nhs.uk/infosystems/welcome>

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bnf\_lkp | BNF version: 76

Field Name	Description
<b>BNF_Presentation_Code</b>	The full BNF presentation code for the medication, dressing or appliance.  E.g., Yaltormin SR 500mg tablets, an antidiabetic drug with the chemical substance Metformin Hydrochloride, has a BNF code of 0601022B0BPAAAS.
<b>BNF_Chapter</b>	The associated BNF chapter, e.g. the endocrine system.  Characters 1 and 2 of the BNF_Presentation_Code denote the chapter. Chapter 6 covers the endocrine system. Hence, this is shown as <b>06</b> 01022B0BPAAAS.
<b>BNF_Section</b>	Relates to the section of the chapter in the BNF, e.g. drugs used in diabetes.  Characters 3 and 4 of the BNF_Presentation_Code denote the chapter section. Section 1 of chapter 6 covers drugs used in diabetes. Hence, this is shown as 06 <b>01</b> 022B0BPAAAS.
<b>BNF_Paragraph</b>	Shows the paragraph of the section in the BNF, e.g. antidiabetic drugs.  Characters 5 and 6 of the BNF_Presentation_Code denote the paragraph. Paragraph 2 of section 1 in chapter 6 covers antidiabetic drugs. Hence, this is shown as 0601 <b>02</b> 2B0BPAAAS.

Field Name	Description
<b>BNF_Subparagraph</b>	<p>Relates to the subparagraph of the paragraph, e.g. biguanides.</p> <p>Character 7 of the BNF_Presentation_Code denote the subparagraph. Subparagraph 2 of paragraph 2 in section 1 of chapter 6 relates to biguanides. Hence, this is shown as 0601022B0BPAAAS.</p>
<b>BNF_Chemical_Substance</b>	<p>Provides the international non-proprietary name, which is the official, generic and non-proprietary name given to a pharmaceutical drug or its active ingredient.</p> <p>Characters 8 and 9 of the BNF_Presentation_Code denote the chemical substance. The chemical substance for Yaltormin SR 500mg tablets is Metformin Hydrochloride, shown as 0601022B0BPAAAS.</p> <p>Note: Chapters 20 to 23 contain no chemical name, as these are dressings and appliances.</p>
<b>BNF_Product</b>	<p>Provides product name which can be proprietary e.g. Yaltormin SR, or the generic variant of the drug.</p> <p>Characters 10 and 11 of the BNF_Presentation_Code denote the product name. Yaltormin SR 500mg tablets are shown as BP (0601022B0BPAAAS), as are all other dosages of Yaltormin SR. The generic variant of a drug is always coded as AA.</p>
<b>BNF_Presentation</b>	<p>Provides more information on the product, e.g. whether it is a capsule, tablet or liquid, what the strength of the drug is, its volume (if liquid), sizes for various dressings, etc.</p> <p>Characters 12 and 13 of the BNF_Presentation_Code denote this. Yaltormin SR 500mg tablets are shown as AA (0601022B0BPAAAS), Yaltormin SR 750mg are shown as AB, and Yaltormin SR 1000mg as AC. Letters denoting strength do not always refer to the same formulation in other drugs – so AA in this example does not always refer to 500mg tablets for other chemicals.</p> <p>Characters 14 and 15 of the BNF_Presentation_Code relate to equivalent products. To illustrate, characters 14 and 15 of Yaltormin SR 500mg are coded with AS (0601022B0BPAAAS). All other products with the chemical substance Metformin Hydrochloride, with a dosage of 500mg, e.g. Meijumet 500mg, will be coded with AS.</p> <p>This structure is useful. If we want to look at the prescribing of all antidiabetic drugs, we can search our database for any items prescribed that begin with 060102. If we want to look at all generics in a paragraph, we can search under BNF_Product for AA.</p>

## DM+D table

### Information sources used for the DM+D lookup table descriptions:

TRUD files associated with DM+D are available for download from here: <https://isd.digital.nhs.uk/trud3/user/guest/group/0/home>

TRUD files used, from 'UK SNOMED CT Drug Extension, RF2: Full, Snapshot & Delta' file pack. [Date downloaded: 21/06/2019]

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### dmd\_lkp | dm+d version: May 2019 release

Field Name	Description
concept_id	dm+d code
term	Description of the dm+d code

## ICD-9 and ICD-10 tables

Information sources used for the ICD-9 and ICD-10 table descriptions:

TRUD files associated with ICD codes are available for download from here: <https://isd.digital.nhs.uk/trud3/user/guest/group/0/home>

TRUD files used from 'NHS ICD-10 5th Edition data files' file pack: ICD10\_Edition5\_CodesAndTitlesAndMetadataFileSpecification\_GB\_20160401, ICD10\_Edition5\_TablesOfCodingEquivalencesSpecification(analysis)\_GB\_20160401. [Date downloaded: 21/06/2019]

Additional files:

NHS Centre for Coding and Classification. Tables of Equivalence A Specification of the File Structure for Tables of Equivalence between ICD-9 and ICD-10 Version 1.1. Sep 1994.

*ICD-10 codes, terms and text used by permission of WHO, from: International Statistical Classification of Diseases and Related Health Problems, Tenth Revision (ICD-10). Vols 1-3. Geneva, World Health Organization, 1992-2016.*

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### icd9\_lkp | ICD-9 version: April 1995 release

Field Name	Description
ICD9	ICD-9 code
DESCRIPTION_ICD9	Description of the ICD-9 code

### icd10\_lkp | ICD-10 version: 5<sup>th</sup> edition

Field Name	Description
CODE	ICD-10 Code
ALT_CODE	ICD-10 Code, alternate form: This form strips the decimal point from the code and appends the filler X where the 3 character category is undivided. For example: A00.1 = A001 A46 = A46X A15.0 = A150 I70.00 = I7000

Field Name	Description
USAGE	Dagger / Asterisk indication
USAGE_UK	Dagger / Asterisk indication
DESCRIPTION	Longest preferred rubric
MODIFIER_4	4th character modifier suffix
MODIFIER_5	5th character modifier suffix
QUALIFIERS	Dual classification (asterisk codes)
GENDER_MASK	Gender mask: Identifies single sex conditions
MIN_AGE	Minimum age that applies to this code
MAX_AGE	Maximum age that applies to this code
TREE_DESCRIPTION	This data field also contains descriptions that are functional in the context of the 3 character descriptions of their parent category, and are thus suitable for presentation where that context is available. For example: C00 Malignant neoplasm of lip C00.0 External upper lip C00.1 External lower lip C00.2 External lip, unspecified

[icd9\\_icd10](#) | [ICD-9 version: April 1995 release](#) | [ICD-10 version: April 1995 release](#)

Field Name	Description
ICD9	ICD-9 code
DESCRIPTION_ICD9	Description of the ICD-9 code
ICD10	ICD-10 code
DESCRIPTION_ICD10	Description of the ICD-10 code

## Read V2 and CTV3 tables

### Information sources used for all Read V2 and CTV3 associated table descriptions:

TRUD files associated with Read codes are available for download from here: <https://isd.digital.nhs.uk/trud3/user/guest/group/0/home>

TRUD files used from 'NHS UK Read Codes Clinical Terms Version 3, Cross Maps' file pack: UK\_READ\_CTV3\_Contents\_20180401, UK\_READ\_Release\_Overview\_20180401, UK\_READ\_CTV3\_Techupd\_20180401, UK\_READ\_CTV3\_Termup\_20180401 [Date downloaded: 21/06/2019]

TRUD files used from 'NHS UK Read Codes Version 2' file pack: UKTC\_READ\_Release\_Overview\_20160401, UKTC\_READ\_V2\_Techupd\_20160401, UKTC\_READ\_V2\_Termup\_20160401 [Date downloaded: 22/01/2019]

TRUD files used from 'NHS Read Browser': UK\_READ\_Browser\_Manual\_20180401 [Date downloaded: 21/06/2019]

TRUD files used from 'The Read Codes Drug and Appliance Dictionary': UKTC\_READ\_DRUGS\_BNF\_20090102, UKTC\_READ\_DRUGS\_Monthly\_Release\_Update\_Report\_20160401 [Date downloaded: 21/03/2019]

TRUD files used from the 'NHS Data Migration' file pack: ctv3rctmap\_uk\_documentation\_20190601000001 [Date downloaded: 21/06/2019]

### Additional files:

Brear H, Cogman G. The Read Codes Version 2 Definition Codes. NHS Data Standards & Products. 2012 Aug.

Computer Aided Medical Systems Limited. The Read Codes System Developers' Guide. 1993 Jan.

Scottish Clinical Information Management In Practice. Read Terms for General Practice A Quick Introduction. 2014 Oct.

UK Terminology Centre. The Clinical Terms Version 3 (The Read Codes) Cross Mapping File. International Health Terminology Standards Development Organisation UK Terminology Centre. 2008 Apr.

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[read\\_v2\\_lkp | Read V2 version: April 2016 release](#)

Field Name	Description
<b>read_code</b>	Read V2 code
<b>term_code</b>	<p>There is more than one way of describing the same clinical concept. For example, a 'Myocardial Infarction' may be referred to as a 'Heart Attack'. In Read V2, 'term codes' are typically synonyms that are different text descriptions of the same thing.</p> <p>Those marked with '0' denote the preferred term. Those marked with '11', '12' ... are synonyms.</p> <p>Over time, some synonyms have been added that have a different meaning to the preferred term. Use of such synonyms where their meaning is different from the preferred term should be avoided.</p>
<b>term_description</b>	Description of the Read V2 code

[read\\_v2\\_drugs\\_lkp | Read V2 drugs version: April 2016 release](#)

Field Name	Description
<b>read_code</b>	Read V2 code
<b>term_description</b>	Description of the Read V2 code
<b>status_flag</b>	No information could be sourced for the meaning of this variable

[read\\_v2\\_icd9 | Read V2 drugs version: April 2016 release | ICD-9 version: April 1995 release](#)

Field Name	Description
<b>read_code</b>	Read V2 code
<b>icd9_code</b>	Mapped ICD-9 code
<b>icd9_code_def</b>	Signifies, e.g., whether or not the Read V2 code matches to a single ICD-9 code, if the ICD-9 code is a parent code that links to several child codes, if the ICD-9 code is asterisk or dagger code, a dagger-asterisk combination, etc.

[read\\_v2\\_icd10 | Read V2 version: April 2016 release | ICD-10 version: 5<sup>th</sup> edition](#)

Field Name	Description
<b>read_code</b>	Read V2 code
<b>icd10_code</b>	Mapped ICD-10 code
<b>icd10_code_def</b>	Signifies, e.g., whether or not the Read V2 code matches to a single ICD-10 code, if the ICD-10 code is a parent code that links to several child codes, if the ICD-10 code is asterisk or dagger code, a dagger-asterisk combination, etc.



[read\\_v2\\_opcs4](#) | Read V2 version: April 2016 release | OPCS-4 version: 4.7

Field Name	Description
<b>read_code</b>	Read V2 code
<b>opcs_4.2_code</b>	Mapped OPCS-4 code
<b>opcs_code_def</b>	Signifies, e.g., whether or not the Read V2 code matches to a single OPCS-4 code, if the OPCS-4 code is a parent code that links to several child codes, etc.

[read\\_v2\\_drugs\\_bnf](#) | Read V2 version: April 2016 release | BNF version: 68

Field Name	Description
<b>read_code</b>	Read V2 code
<b>bnf_code</b>	Associated BNF code. For this particular mapping file, the read_code - bnf_code combination is unique. The bnf_code field contains the code as a set of 8 (4 pairs) numeric characters, separated by ' ' e.g. 02.05.01.00.

[read\\_v2\\_read\\_ctv3](#) | Read V2 version: April 2016 release | Read CTV3 version: April 2018 release

Field Name	Description
<b>CHAPTER</b>	Read V2 chapter
<b>READV2_CODE</b>	Read V2 code
<b>READV2_DESC</b>	Description of the Read V2 code
<b>TERMV2_DESC</b>	There is more than one way of describing the same clinical concept. For example, a 'Myocardial Infarction' may be referred to as a 'Heart Attack'. In this instance, the term descriptions are typically synonyms that are different text descriptions of the same thing
<b>TERMV2_ORDER</b>	As above, descriptions come in two categories, preferred and synonymous. The preferred term is the accepted official terminology, and the synonymous terms provide alternative definitions to this terminology. In relation to TERMV2_DESC, those marked with '00' denote the preferred term. Those marked with '11', '12' ... are synonyms
<b>TERMV2_TYPE</b>	P = preferred term, S = synonym
<b>READV3_CODE</b>	Read CTV3 code
<b>TERMV3_CODE</b>	The five character alphanumeric code for a CTV3 Term. Individual CTV3 concept codes, such as 'X20QM' in Table 2, can have multiple different terms associated with them. Each term is available in 30-, 60- and 198- character variants and each such triad has its own five-character term code (e.g. 'Y21Eu', 'Y21Ev', 'Y21Ew' and 'Y21Ex'). Of all the term codes associated with a given concept code, one is the 'preferred' term for that concept and the others 'synonyms'.
<b>TERMV3_TYPE</b>	P = preferred term, S = synonym
<b>TERMV3_DESC</b>	Description of the Read CTV3 code

[read\\_ctv3\\_lkp](#) | Read CTV3 version: April 2018 release

Field Name	Description
<b>read_code</b>	Read CTV3 code.
<b>term_description</b>	Description of the Read Code.
<b>description_type</b>	Descriptions come in two categories, preferred (P) and synonymous (S). The preferred term is the accepted official terminology, and the synonymous terms provide alternative definitions to this terminology. To illustrate, the concept of asthma can be described as "Asthma" (this is the default, or preferred term), but can also be described as "Bronchial Asthma" (a synonym).
<b>status</b>	Codes are marked as Current (C), Optional (O) or Extinct (E). Values marked as R had meanings that referred to other CTV codes, (e.g. "See 0111.") These meanings have been replaced with the meanings of the codes referred to, to facilitate text searching within code meanings.

[read\\_ctv3\\_icd9](#) | Read CTV3 version: April 2018 release | ICD-9 version: April 1995 release

Field Name	Description
<b>read_code</b>	Read CTV3 code.
<b>icd9_code</b>	Mapped ICD-9 code.
<b>mapping_status</b>	Denotes the nature of the mapping. Contains letters E, G, D, R, A and U. E = Exact one-to-one mapping. There is an exact match between host and target codes. There are no alternatives. G = Target concept more general. The mapping is correct, but Read coded concept is more detailed. There are no alternatives. D = Default mapping. Indicates either an alternative that is most acceptable in the absence of other information or a partial mapping in cases where one Read code maps onto a pair of target codes. There is not necessarily a default among a set of alternatives (other than in OPCS-4 and ICD-10). R = Requires checking. This alternative mapping must be checked against the default that has also been supplied in the table. (Different rubric from default). A = Alternative mapping. All alternatives that are not marked as D or R fall into this category. (Same rubric as default). U = Unspecified. Not used.
<b>refine_flag</b>	Denotes whether or not the target code is sufficiently detailed to be acceptable. 3-character ICD codes are usually not acceptable, for example. Covers addition of 4th and 5th digit extensions in ICD, 4th character in OPCS-4. C = Completely refined. M = Mandatory to refine further. P = Possible but not mandatory to refine further
<b>add_code_flag</b>	Denotes whether or not the target system specifies that extra codes might be added to the target code (e.g. aetiology codes in ICD and site codes in OPCS-4). C = Complete. No further codes need be added. M = Mandatory to add a further code.

Field Name	Description
	P = Possible but not mandatory to add a further code.
<b>element_num</b>	A Read code may need several target codes for a complete mapping, but each of these may have alternatives. Therefore, each set of alternatives is given a distinct element number. Element numbers start at 0, incrementing by 1. There are rarely more than two sets.
<b>block_num</b>	<p>A block is a complete set of target codes for a mapping from any one Read code (including all alternatives to the suggested codes). There are a number of occasions where more than one block exists for a Read code. This occurs, for example, when a Read code maps either to a single target code or to a target code plus a second code (which may itself have alternatives).</p> <p>Blocks are numbered successively 0, 1, 2...</p> <p>Note that elements exist within blocks and that usually there is only one block.</p>

[read\\_ctv3\\_read\\_v2](#) | [Read CTV3 version: April 2018 release](#) | [Read V2 version: April 2016 release](#)

Field Name	Description
<b>READV3_CODE</b>	Read CTV3 code
<b>TERMV3_CODE</b>	Read CTV3 term code
<b>TERMV3_TYPE</b>	Descriptions come in two categories, preferred (P) and synonymous (S). The preferred term is the accepted official terminology, and the synonymous terms provide alternative definitions to this terminology. To illustrate, the concept of asthma can be described as "Asthma" (this is the default, or preferred term), but can also be described as "Bronchial Asthma" (a synonym)
<b>TERMV3_DESC</b>	Description of the Read CTV3 code
<b>READV2_CODE</b>	Read V2 code
<b>READV2_DESC</b>	Description of the Read V2 code
<b>TERMV2_ORDER</b>	Similar to the term_code variable in the read_v2_lkp file, those marked with '00' denote the preferred term. Those marked with '11', '12' ... are synonyms
<b>TERMV2_TYPE</b>	See TERMV3_TYPE description
<b>TERMV2_DESC</b>	Description of the associated Read V2 preferred or synonymous term.
<b>IS_ASSURED</b>	<p>The current clinical assurance status of each map assertion between a source CTV3 concept and term ID pair and a target READ2 concept and term ID pair, where 0 = Not assured and 1 = Assured.</p> <p>A semi-automatic quality assurance process was agreed with the NHS GP Systems of Choice (GPSoc) programme in October 2010 and subsequently with the Joint GP IT Committee. Under this process, maps are automatically assured if the 5-Byte READ target concept has a legitimate description that is exactly lexically equivalent to at least one of the three string-length variant strings encoded for by the original CTV3 TermID.</p>

Field Name	Description
<b>read_code</b>	Read CTV3 code.
<b>icd9_code</b>	Mapped ICD-10 code.
<b>mapping_status</b>	<p>Denotes the nature of the mapping. Contains letters E, G, D, R, A and U.</p> <p>E = Exact one-to-one mapping. There is an exact match between host and target codes. There are no alternatives.</p> <p>G = Target concept more general. The mapping is correct, but Read coded concept is more detailed. There are no alternatives.</p> <p>D = Default mapping. Indicates either an alternative that is most acceptable in the absence of other information or a partial mapping in cases where one Read Code maps onto a pair of target codes. There is not necessarily a default among a set of alternatives (other than in OPCS-4 and ICD-10).</p> <p>R = Requires checking. This alternative mapping must be checked against the default that has also been supplied in the table. (Different rubric from default).</p> <p>A = Alternative mapping. All alternatives that are not marked as D or R fall into this category. (Same rubric as default).</p> <p>U = Unspecified. Not used.</p>
<b>refine_flag</b>	<p>Denotes whether or not the target code is sufficiently detailed to be acceptable. 3-character ICD codes are usually not acceptable, for example. Covers addition of 4th and 5th digit extensions in ICD, 4th character in OPCS-4.</p> <p>C = Completely refined.</p> <p>M = Mandatory to refine further.</p> <p>P = Possible but not mandatory to refine further</p>
<b>add_code_flag</b>	<p>Denotes whether or not the target system specifies that extra codes might be added to the target code (e.g. aetiology codes in ICD and site codes in OPCS-4).</p> <p>C = Complete. No further codes need be added.</p> <p>M = Mandatory to add a further code.</p> <p>P = Possible but not mandatory to add a further code.</p>
<b>element_num</b>	A Read Code may need several target codes for a complete mapping, but each of these may have alternatives. Therefore, each set of alternatives is given a distinct element number. Element numbers start at 0, incrementing by 1. There are rarely more than two sets.
<b>block_num</b>	<p>A block is a complete set of target codes for a mapping from any one Read Code (including all alternatives to the suggested codes). There are a number of occasions where more than one block exists for a Read Code. This occurs, for example, when a Read Code maps either to a single target code or to a target code plus a second code (which may itself have alternatives).</p> <p>Blocks are numbered successively 0, 1, 2...</p> <p>Note that elements exist within blocks and that usually there is only one block.</p>

Field Name	Description
<b>read_code</b>	Read CTV3 code.
<b>opcs4_code</b>	Mapped OPCS-4 code.
<b>mapping_status</b>	<p>Denotes the nature of the mapping. Contains letters E, G, D, R, A and U.</p> <p>E = Exact one-to-one mapping. There is an exact match between host and target codes. There are no alternatives.</p> <p>G = Target concept more general. The mapping is correct, but Read coded concept is more detailed. There are no alternatives.</p> <p>D = Default mapping. Indicates either an alternative that is most acceptable in the absence of other information or a partial mapping in cases where one Read Code maps onto a pair of target codes. There is not necessarily a default among a set of alternatives (other than in OPCS-4 and ICD-10).</p> <p>R = Requires checking. This alternative mapping must be checked against the default that has also been supplied in the table. (Different rubric from default).</p> <p>A = Alternative mapping. All alternatives that are not marked as D or R fall into this category. (Same rubric as default).</p> <p>U = Unspecified. Not used.</p>
<b>refine_flag</b>	<p>Denotes whether or not the target code is sufficiently detailed to be acceptable. 3-character ICD codes are usually not acceptable, for example. Covers addition of 4th and 5th digit extensions in ICD, 4th character in OPCS-4.</p> <p>C = Completely refined.</p> <p>M = Mandatory to refine further.</p> <p>P = Possible but not mandatory to refine further</p>
<b>add_code_flag</b>	<p>Denotes whether or not the target system specifies that extra codes might be added to the target code (e.g. aetiology codes in ICD and site codes in OPCS-4).</p> <p>C = Complete. No further codes need be added.</p> <p>M = Mandatory to add a further code.</p> <p>P = Possible but not mandatory to add a further code.</p>
<b>element_num</b>	A Read Code may need several target codes for a complete mapping, but each of these may have alternatives. Therefore, each set of alternatives is given a distinct element number. Element numbers start at 0, incrementing by 1. There are rarely more than two sets.
<b>block_num</b>	<p>A block is a complete set of target codes for a mapping from any one Read Code (including all alternatives to the suggested codes). There are a number of occasions where more than one block exists for a Read Code. This occurs, for example, when a Read Code maps either to a single target code or to a target code plus a second code (which may itself have alternatives).</p> <p>Blocks are numbered successively 0, 1, 2...</p> <p>Note that elements exist within blocks and that usually there is only one block.</p>