

# Classifications and Cross-mapping

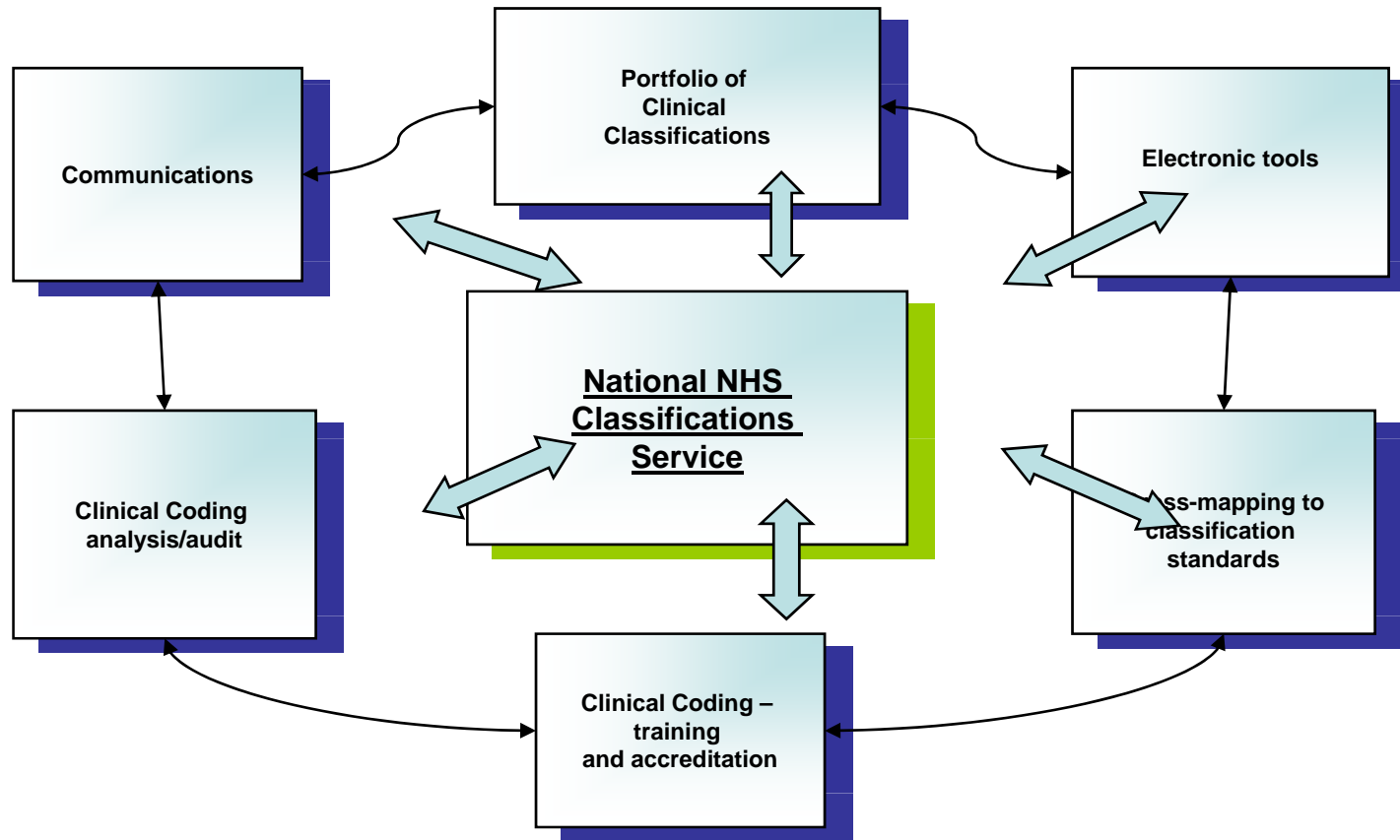
IHTSDO Educational Workshop  
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Hazel Brear  
Principal Cross-mapping Specialist  
UK Terminology Centre

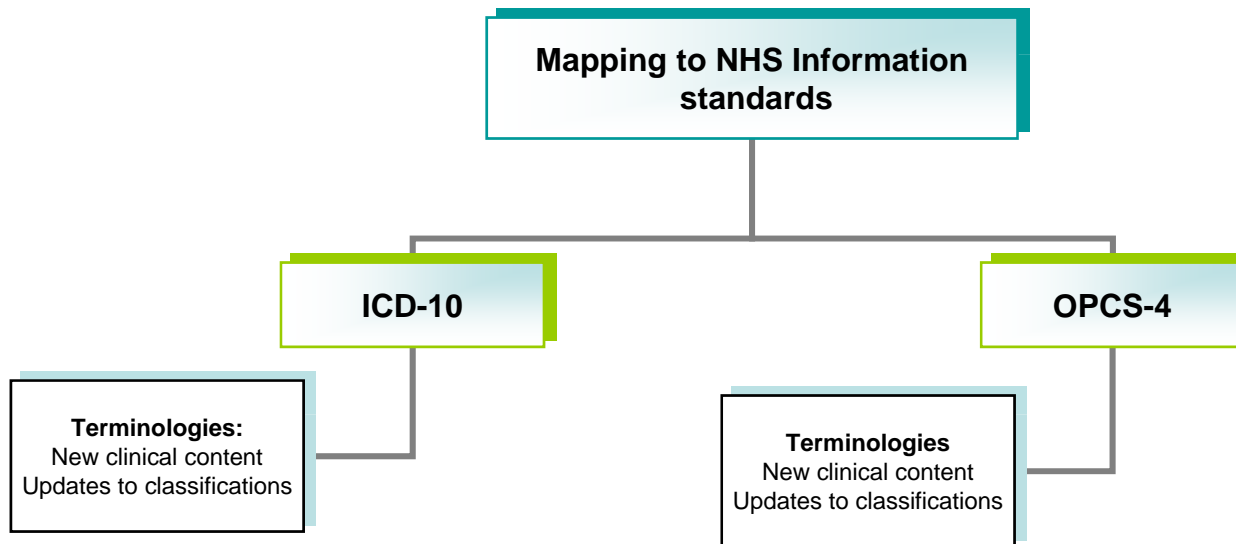


Data Standards and Products

National NHS Classifications Service  
Key work streams



National NHS Classifications Service –  
Key work streams



## Why Classification Cross-maps?

- Clinical coding rules and conventions are **not** incorporated into the terminologies (e.g. dagger & asterisk rules)
- Terminologies **cannot** currently generate HRGs
- To support the UK NHS Use Case, SNOMED CT and the Read codes must be mapped to ICD-10 and OPCS-4.

## *Use Case for Classification Cross-maps*

### **Submit data**

- Organisations using systems incorporating terminologies are able to fulfil mandatory National and International data requirements

### **Provide National Standards** (via the classification cross-maps)

- NHS Financial Flows introduced in 2003/2004 mean that classifications provide the underlying data

## *Source of new content for cross-mapping*

- OPCS-4 (UK) & ICD-10 (WHO) updates/revisions
- Requests from the service
- SNOMED CT International Release
- Output from UK Coding Review Panel
- Department of Health/NHS Information centre -  
Healthcare Resource Groups – Payment by Results

## *Tooling*

- Bespoke in-house tool **C**linical **I**nter**V**ersion **E**ditor (CLIVE)
- New tooling will provide opportunities for review and potential improvement of process & methodology.

## *Process / methodology*

- Cross-maps are developed centrally by NHS Connecting for Health
- Modelled to reflect the standards, rules and conventions of the classifications
- Cross-map is to the concept.

## *Process / methodology*

- Semi-automatic map
- Read Version 2 simple map
- CTV3 & SNOMED more complex map – able to apply rules & conventions of classification
- e.g. dagger & asterisk, exclusions

## *Quality Assurance*

- Technical QA (rules run overnight)
- Inspection (conflict resolution or escalate to consensus management)
- Further end of release QA (sample)
- External QA/ International QA

## Cross-Mapping

- Cross-mapping is carried out using in-house editor
- The mapping form allows capture of additional data.

Target Code	Map Status	Refine Flag	Additional Code Flag	Element	Block

## *Map Status*

- E - Exact one-to-one match
- G - General
- D - Default
- A - Alternative
- R - Required Check

## Map Status

E

SNOMED CT ConceptID 2043009 **Alcoholic gastritis (disorder)**

ICD-10 target code is K29.2 **Alcoholic gastritis**

Target Code	Map Status	Refine Flag	Additional Code Flag	Element	Block
<b>K292</b>	<b>E</b>				

## Map Status

**G**

**SNOMED CT ConceptID 313254003 Varicose vein of leg with phlebitis (disorder)**

**ICD-10 target code is I83.1 Varicose veins of lower extremities with inflammation**

Target Code	Map Status	Refine Flag	Additional Code Flag	Element	Block
I83.1	G				

## Map Status

D

SNOMED CT ConceptID 65363002 **Otitis media (disorder)**

ICD-10 target code is H66.9 **Otitis media, unspecified**

Target Code	Map Status	Refine Flag	Additional Code Flag	Element	Block
H669	D				

## Map Status

**A - Alternative**

**R - Required Check**

Target Code	Map Status	Refine Flag	Additional Code Flag	Element	Block
H669	D				
H66	A				
H65	R				

## *Refine Flag*

- C - Complete
- P - Possible to refine
- M - Mandatory to refine

# *Refine flag*

<b>Target Code</b>	<b>Map Status</b>	<b>Refine Flag</b>	<b>Additional Code Flag</b>	<b>Element</b>	<b>Block</b>
<b>H669</b>	<b>D</b>	<b>C</b>			
<b>H66</b>	<b>A</b>	<b>M</b>			
<b>H65</b>	<b>R</b>	<b>M</b>			

## *Additional Code Flag*

- C - Complete – no other code required
- P - Possible to use an additional code
- M - Mandatory to use an additional code

## Additional Code Flag

**SNOMED CT** ConceptID 68566005 **Urinary tract infectious disease (disorder)**

ICD-10 target code is N39.0 **Urinary tract infection, site unspecified**

Target Code	Map Status	Refine Flag	Additional Code Flag	Element	Block
N390	D	C	P		

## *Elements and Blocks*

- Elements ensure alternatives stay ‘attached’ to the correct default target code and maintains ‘order’
- Element 0 is always the default element
- Blocks keep each group of complete target codes together
- Block 0 is always the default block

## Example of use of Element(s)

SNOMED CT ConceptID 111900000 **Pneumonia in aspergillosis (disorder)**

**ICD-10** target codes (dagger & asterisk) are:  
B44.1 and J17.2

Target	Map Status	Refine Flag	Additional Code Flag	Element	Block
<b>B441D</b>	<b>D</b>	<b>C</b>	<b>C</b>	<b>0</b>	<b>0</b>
<b>J172A</b>	<b>D</b>	<b>C</b>	<b>C</b>	<b>1</b>	<b>0</b>

## Example of use of Blocks

### Sampling of axillary lymph nodes

Target Code	Map Status	Refine Flag	Additional Code Flag	Element	Block
T862	D	C	P	0	0
T862	D	C	P	0	1
O142	D	C	P	1	1

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