



Digital

# From Read codes to SNOMED CT

## SNOMED CT in Primary Care



**Information and technology**  
for better health and care

presented by Andrew Perry,

# Agenda

- Overview of the NHS
- Achieving Change
  - Strategy and policy
  - Programme of work
- Technical Aspects
  - Requirements
  - Data conversion: national mapping tables
  - Changing the codes for decisions support, searches

# Overview of the NHS



- Healthcare devolved across England, Scotland, Wales and Northern Ireland.
- NHS England set strategy and hold contracts
- Each region in England managed by a Clinical Commissioning Group : 207 CCGs

# Some stats ...



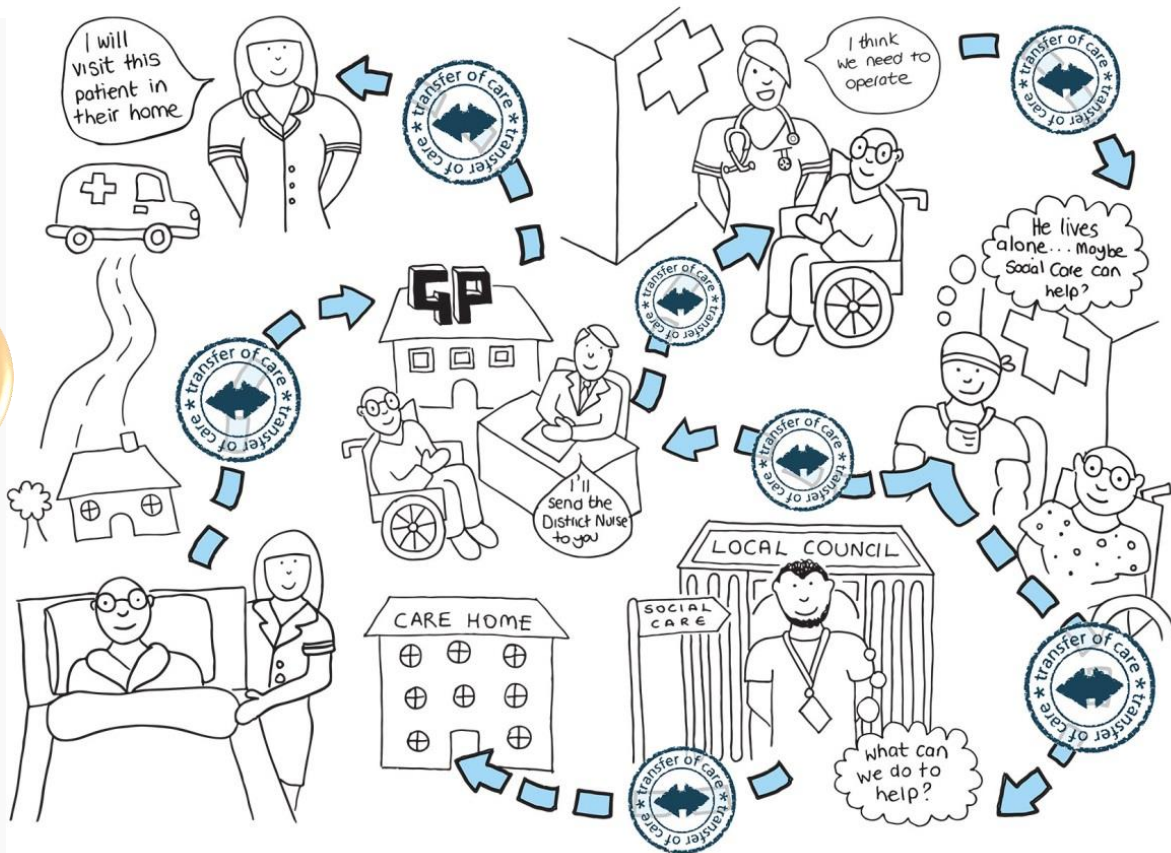
59 million+ patients

4 GP IT systems: 3 use Read v2, 1 uses CTV3

7,454 GP practices in England  
33,423 GPs  
15,827 nurses

2,000,000,000 coded records per year

# Why change?



One  
Terminology!  
SNOMED CT

# Its been a long journey ....

- 2001: SNOMED CT is the terminology of choice
- 2007: SNOMED CT is the mandated terminology
- 2011: SNOMED CT - ISB standard for terminology
- 2012: Power of Information
- 2014: Personalised Health and Care 2020 Action

SNOMED CT is a national standard underpinned by legislation.

The standard has required implementation dates.

- Systems used by **GP** service providers must use SNOMED CT as the clinical terminology within the system before the **1 April 2018**. SNOMED CT must be utilised in place of the Read codes before 1 April 2018.
- **Secondary Care, Acute Care, Mental Health, Community systems, Dentistry** and other systems used in the direct management of care of an individual must use SNOMED CT as the clinical terminology before **1 April 2020**.
- **Social Care is in scope of the standard** but there are currently no required implementation dates. This is expected in a future update to the standard.

Biggest change when:

Read v2 was retired on 1<sup>st</sup> April 2016

CTV3 to be retired on 1<sup>st</sup> April 2018

No more Read codes to be created

# Role of NHS Digital - SNOMED CT



*SNOMED CT in primary care programme* - established to support & facilitate the implementation of SNOMED CT in primary care



Working closely with GP System Suppliers (EMIS, Vision, Microtest, TPP) & Lot 1 subsidiaries – implement SNOMED CT safely & efficiently, assuring products & providing implementation support /guidance



Highlight the benefits that can be achieved through SNOMED CT, which provides a rich and sophisticated clinical terminology nomenclature



Support CCGs, as local commissioners of GP IT services - ensuring relevant / timely advice & guidance



# Role of CCGs



Ensure general practices are fully sighted of transition to SNOMED CT - signpost support available



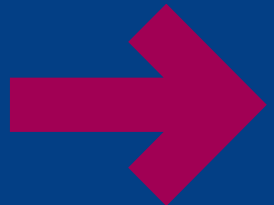
Ensure GP IT delivery partners are fully prepared, training materials updated and support staff fully prepared



Opportunity for housekeeping / review of local reports, templates



Review any local commissioned reporting/data analysis services – ensuring that data warehouse, extraction and analysis tools can accommodate SNOMED CT



# Resources:

## SNOMED CT IMPLEMENTATION IN PRIMARY CARE

DELEN :: collaborate and share

TERMINOLOGY AND CLASSIFICATIONS STANDARDS



Welcome to the SNOMED CT Implementation in Primary Care area of Delen, the workspace we are using to collaborate with our partners and share information. You will be able to find detailed content relating to the implementation of SNOMED CT in primary care as well as links to useful resources that will support the transition.

We hope you find Delen useful and if you have any comments or suggestions for how we could improve it, please [get in touch with us](#).

**LATEST NEWS:** [New SNOMED CT workshops for GP IT Providers](#) - the workshops will provide valuable information in relation to the transition from Read codes to SNOMED CT for organisations providing IT services to General Practice.



Latest News



Main Publications



Education &  
Training



Queries &  
Responses



Browsing &  
Mapping Look Ups

USEFUL LINKS

RESOURCE  
LIBRARY

CONTACT US

NHS DIGITAL  
WEBSITE

# Additional Guidance

## Main Publications Data Quality & Analytics

Below are a list of publications

**Note:** Some of these publications

- ▶ [Data Quality Guidance v3.0](#)
- ▶ [Designing Searches](#)
- ▶ [Creating Terminology Tables in a Database](#) (this document accompanies the recordings below)
- ▶ [Recorded Presentations - Creating Terminology Tables in a Database](#) A series of recorded presentations for those who want *detail which files are needed, which additional tables to create and how to create simple queries.*
  - [Recording 1: Data warehouse and reporting with SNOMED CT](#)
  - [Recording 2: Concept, description and relationship files](#)
  - [Recording 3: Identifying UK descriptions and creating one reference table for reporting](#)
  - [Recording 4: Finding all descendants of a concept \(Transitive Closure table\)](#)
  - [Recording 5: Dealing with content not covered by the transitive closure table \(Query table\)](#)
  - [Recording 6: Extracting data for use in queries](#)
  - [Recording 7: Checklist and hints and tips](#)

## Plans & Roadmap

- ▶ [Principal Component](#)
- ▶ [Microtest Environment](#)
- ▶ [EMIS Web](#)

itions

# GPSoC Requirements

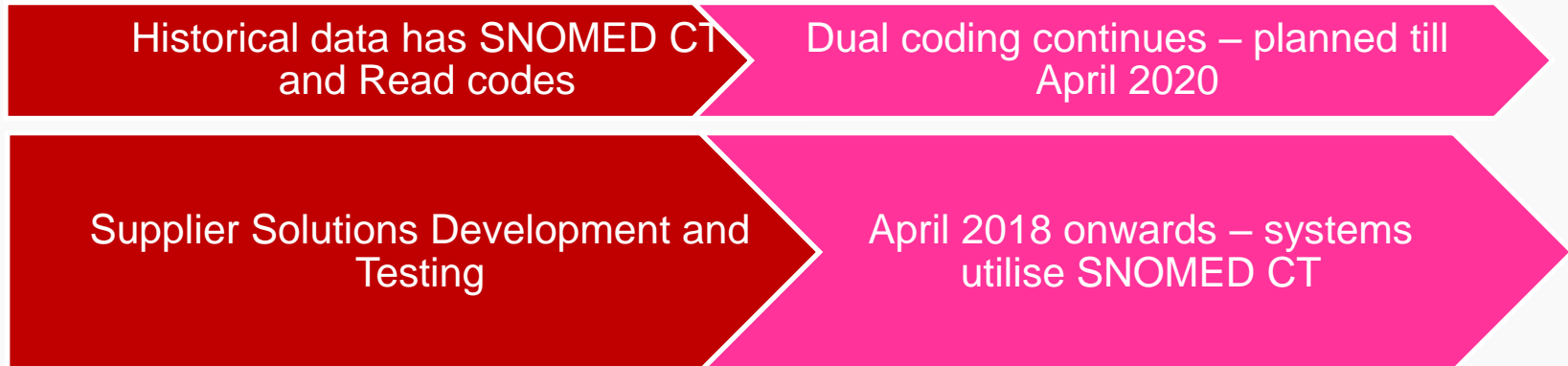
- Use SNOMED CT as the primary terminology
- Enable the user to use SNOMED CT wherever they currently use Read
- Map existing data
- Convert all artefacts that use Read to SNOMED CT
- Import and export data in SNOMED CT
- National reporting in SNOMED CT

# Mapping Read to SNOMED CT

- National mapping tables
  - Every Read code & term maps to SNOMED CT concept & description
  - Clinically assured
- Suppliers have to use maps
- Main aim is to preserve and retrieve historical data

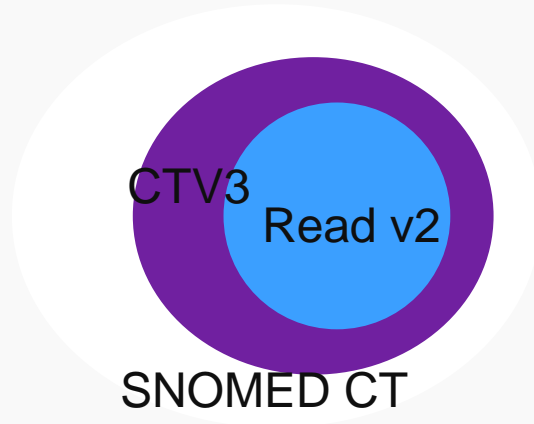
# Transition to SNOMED CT – dual coding

- Mapped Read coded Data has an associated SNOMED CT code
- New data in SNOMED CT will have an equivalent Read code where these exist (SNOMED CTsubset )
- Dual coded, existing searches, reports, templates, protocols will continue to work – until content only in SNOMED CT is required



# 'GP Subset' – supporting dual coding

- A National subset of SNOMED CT, the codes in the subset can be mapped to equivalent Read codes.
  - One for Read v2 and one for CTV3
  - Aims to be very close to SNOMED CT description selected



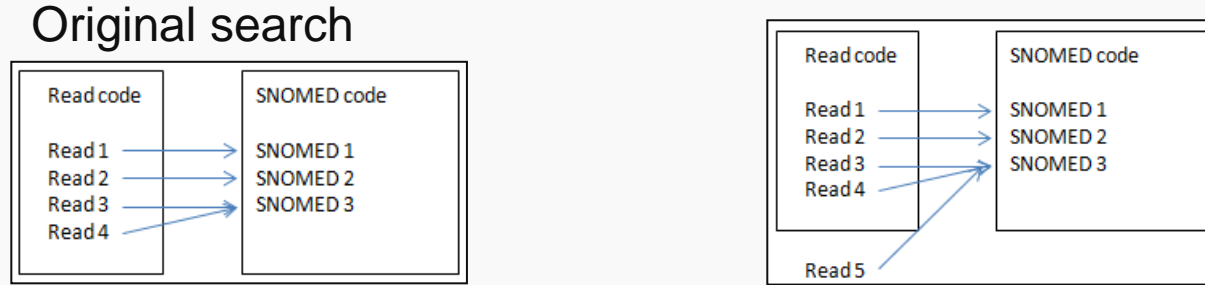
# Mapping searches

- ALL suppliers wish to minimise the impact and provide time to adjust searches
- On SNOMED Day 1, all existing searches will work on mapped data
- They will continue to work while users enter data that has a Read equivalent
- Update reports to include non-subset concepts
- Prioritise reports and plan migrating them over the next year, possibly 2 years if appropriate



# Mapping searches

- In simple terms mapping performs the following:



- BUT there may be other Read codes that map to our list of SNOMED CT concepts?

# Mapping searches

QOF\_AFIB\_COD RCT

G573.: Atrial fibrillation and flutter

- ... G5730: Atrial fibrillation
- ... G5731: Atrial flutter
- ... G5732: Paroxysmal atrial fibrillation
- ... G5733: Non-rheumatic atrial fibrillation
- ... G5734: Permanent atrial fibrillation
- ... G5735: Persistent atrial fibrillation
- ... G5736: Paroxysmal atrial flutter
- ... G5737: Chronic atrial fibrillation
- ... G5738: Typical atrial flutter
- ... G5739: Atypical atrial flutter
- ... G573z: Atrial fibrillation and flutter NOS

QOF\_AFIB\_COD RCT

Disease

- ... 5370000: Atrial flutter
- ... 195080001: Atrial fibrillation and flutter
- ... 427665004: Paroxysmal atrial flutter
- ... 720448006: Typical atrial flutter
- ... 15964901000119107: Atypical atrial flutter
- ... 49436004: Atrial fibrillation
- ... 195080001: Atrial fibrillation and flutter
- ... 233911009: Non-rheumatic atrial fibrillation
- ... 282825002: Paroxysmal atrial fibrillation
- ... 426749004: Chronic atrial fibrillation
- ... 440028005: Permanent atrial fibrillation
- ... 440059007: Persistent atrial fibrillation

# Specified in SNOMED CT ECL

|             |                                      |
|-------------|--------------------------------------|
| conceptid   | just this concept                    |
| <conceptid  | the descendants of this concept      |
| <<conceptid | this concept and all its descendants |
| ^refsetId   | members of refset                    |

Then any of the above preceded by

|       |                                    |
|-------|------------------------------------|
| MINUS | exclude concepts (s)               |
| OR    | include concepts(s) or concept(s)  |
| AND   | include concept(s) AND concepts(s) |
| ()    | brackets to indicate precedence    |

# Specified in SNOMED CT ECL

G573.% Atrial fibrillation and flutter

(<<49436004 OR 5370000 OR <<15964901000119107 OR <<720448006)  
MINUS (<<120041000119109 OR <<715395008 OR <<706923002)

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