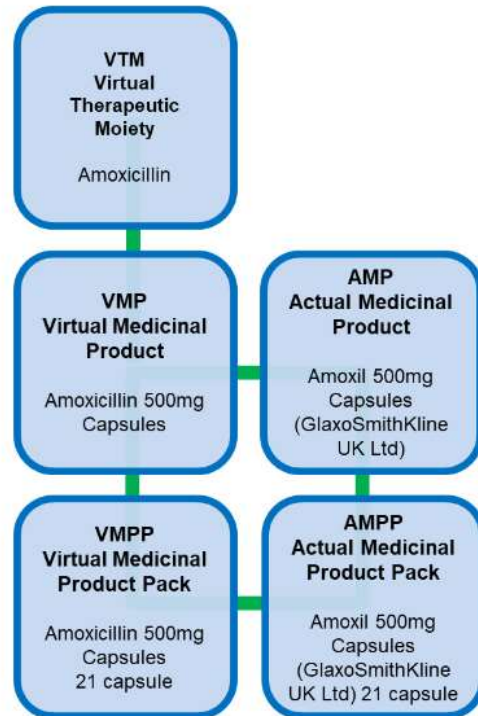


- University Hospitals Bristol & Weston NHS Foundation Trust
- JAC v2019 installed in 2019 as Beta site
- Map at VMP/AMP level
- Use NHS Digital document as a guide



1. Introduction

The NHS dictionary of medicines and devices (dm+d) Standard (SCC10052) is an interoperability standard. It ensures that diverse clinical systems can effectively 'talk' to each other using a common coded language for the transfer of medicines information. dm+d provides this common language using uniquely identifying codes with associated written descriptions.

The importance of sharing healthcare information digitally has been recognised for many years. However for systems and software applications to be able to exchange data and to present information to the user systems must be interoperable. In other words systems must be able to 'talk to each other and understand each other' when sending and receiving information. Key to supporting interoperability is the use of a common coded language. Coding systems underpin interoperability and machine readability. For medicines this 'language' or coding system is dm+d.

2. Purpose and Scope

dm+d may either be used natively, i.e. as the sole medicine terminology, or by accurately mapping between another dictionary and dm+d. Most hospital pharmacy systems currently require a mapped solution.

The NHS Improvement Hospital Pharmacy IT Infrastructure Fund is available to support the implementation of dm+d in hospital pharmacy stock control systems. This document provides the mapping criteria that secondary care providers and system vendors are required to adhere to ensure that they meet their obligations in mapping their local and commercial drug dictionaries to the NHS dm+d Information Standard.

Adhering to the mapping criteria will ensure that medicines are coded consistently no matter what system is in place and ensure alignment to the NHS dm+d Information Standard.

3. Responsibilities

Mapping between dm+d and other drug dictionaries does carry an additional risk to patient safety compared to the use of a dictionary natively, but it does allow for a smoother transition to the standard. It is important that health and care organisations and their IT system vendors recognise this clinical safety risk and put steps in place to mitigate against any risks when undertaking any mapping.

If a mapped solution has been implemented, the secondary care provider or the system vendor is responsible for the mapping and for any adverse incident arising because of an inaccurately produced map. They **MUST** ensure it is fit for purpose and appropriately maintained. NHS Digital will not validate or overwrite the accuracy of any dm+d mapping solution.

Secondary care providers **MUST NOT** alter or amend mapped data that has been undertaken by a system vendor. If there is a drug template copy facility and drug details within the template are altered to create an alternative local description, then the dm+d code may no longer be valid and in which case must be removed to prevent any erroneous mapping.

Any locally managed drug descriptions are the responsibility of the secondary care provider. The provider **MUST** ensure that any dm+d codes assigned to local drug descriptions are accurate and in line with the mapping criteria outlined below.

	Mapping criteria	Comments	Examples
1	A map MUST be a one to one semantically interoperable match.	The description is unambiguous.	
2	<p>Descriptions that contain the word 'Homecare' or an abbreviation such as H/C SHOULD be assigned a dm+d code.</p> <p>The mapped description MUST however comply with the other criteria set out in this document; the only difference is the additional wording.</p>	<p>Whilst this is not a semantic match, the exception has been made in order to support existing reporting requirements and not to impact on operational issues.</p> <p>Please note that this is an interim solution. Discussions are being held with key system suppliers to identify an alternative system-based solution that does not involve amending a description to include Homecare.</p>	<p>Example of a description that can be mapped</p> <p>Atazanavir 200mg capsules AND Atazanavir 200mg capsules (HOMECARE)</p> <p>Can both be assigned the same code SNOMED (dm+d) code 41359500</p>
3a	<p>Descriptions that contain the word Overlabelled and abbreviations O/L, TTA and TTO MAY be assigned a dm+d code. This is a variation to the original criteria.</p> <p>The mapped description MUST however comply with the other criteria set out in this document; the only difference is the additional wording.</p>	<p>Whilst this is not a semantic match, the exception has been made in order to support existing reporting requirements and not to impact on operational issues.</p> <p>Please note that this is an interim solution. Discussions are being held with key system suppliers and stakeholders to identify alternative solutions in how such products are managed.</p>	<p>Examples of descriptions that can be mapped</p> <p>Co-Codamol 8/500 effervescent tablets 24 TABS O/L can be mapped to SNOMED Code (dm+d) 1173911000001105 (Co-codamol 8mg/500mg effervescent tablets 24 tablet)</p> <p>Doxycycline 100mg capsules O/L TTA (14 CAPS) can be mapped to SNOMED Code (dm+d) 10689811000001100 (Doxycycline 100mg capsules 14 capsule)</p>
3b	Descriptions with additional wording or information <u>other than</u> Homecare and TTO/ O/L SHOULD NOT be assigned a dm+d code.	It is recognised that some Trusts may have already assigned a dm+d code to such packs. In such cases if the dm+d code is used by the Trust to support internal operational processes then there is no need to remove that code providing the description aligns to the other criteria	Example of descriptions that should be left unmapped
6	If a brand name appears either on its own or within brackets within the local/system description field, then this MUST be mapped to the appropriate AMP or AMPP and not the VMP or VMPP.	It is common practice in some secondary care systems to describe a product using the generic term but add brand information in brackets. Whilst this differs to the dm+d Editorial policy it is accepted that this can be mapped to that specific brand.	<p>Example</p> <p>Tacrolimus (PROGRAF) 1mg capsules</p> <p>Prograf 1mg capsules (Astellas Pharma Ltd) SNOMED (dm+d) code: 209911000001103</p>

Active Approved Drug

RAMIPRIL
5 mg
Capsules

JAC
PHM

Basic Details Prescribing Details Supplementary Labels Expense Code Category Compliance Aid Boxes Packsizes

Drug Name	RAMIPRIL	
Strength	5 mg	
Form	Capsules	Total Stock Count
Dose Description	Capsule	<input checked="" type="radio"/> Containers <input type="radio"/> Dose Units <input type="radio"/> Weight <input type="radio"/> Volume
VAT Code	S	Fast Search Code
Codes		RAM05 C
National		Shelf Life
BNF	02.05.05.01 - Angiotensin-converting enzyme inhibitor	<input type="radio"/> Week <input checked="" type="radio"/> Day
MDDF Number	3006432	National Stock No.
	Modify	
dm+d Link	VMP 318902004	Modify
	Ramipril 5mg capsules	
1 Capsule is equivalent to	Drug Flags	
Homecare Dose	<input type="checkbox"/> Controlled Drug <input type="checkbox"/> Unlicensed Medicine <input type="checkbox"/> Lock in a RESTRICTED MEDICINE cupboard <input type="checkbox"/> For supply on a Named Doctor & Named Patient basis ONLY <input type="checkbox"/> High Alert <input type="checkbox"/> Certificate of Analysis required <input type="checkbox"/> Store in fridge (IP) OR cool place-use before expiry date (O/P)	
High Alert Label		

Select Drug

Restore Drug

Copy Drug

New Approved

New Proprietary

New Other

Ok

Close

Help

Active Approved Drug
DILTIAZEM [ANGITIL SR]
 90 mg
 Capsules



Basic Details Prescribing Details Supplementary Labels Expense Code Category Compliance Aid Boxes Packsizes

Drug Name

Strength mg

Form

Dose Description

VAT Code

Codes
 National

BNF

Total Stock Count
 Containers
 Dose Units
 Weight
 Volume

Fast Search Code

Shelf Life
 Week
 Day

National Stock No.

MDDF Number

dm+d Link

1 Capsule is equivalent to
 Homecare Dose

High Alert Label

- Drug Flags
- Controlled Drug
 - Unlicensed Medicine
 - Lock in a RESTRICTED MEDICINE cupboard
 - For supply on a Named Doctor & Named Patient basis ONLY
 - High Alert
 - Certificate of Analysis required
 - Store in fridge (VP) OR cool place-use before expiry date (O/P)

Active Approved Drug

ADALIMUMAB [HUMIRA] (HOMECARE)

20 mg/0.2mL

Soln for Inject PF Syringes



Basic Details Prescribing Details Supplementary Labels Expense Code Category Compliance Aid Boxes Packsizes

Drug Name		ADALIMUMAB [HUMIRA] (HOMECARE)	
Strength		20 mg/0.2mL	
Form		Soln for Inject PF Syringes	
Dose Description		x 0.2mL Pre-filled Syringe	
VAT Code		Z	
Codes		National	
BNF		10.01.03 - Drugs that suppress the rheumatic disease p	
MDDF Number		dm+d Link	
1023477		AMP 35315311000001108	
Modify		Modify	
1 x 0.2mL Pre-filled Syringe is equivalent to		Humira 20mg/0.2ml solution for injection pre-filled syringes (AbbVie Ltd)	
Homecare Dose		Drug Flags	
[] []		<input type="checkbox"/> Controlled Drug <input type="checkbox"/> Unlicensed Medicine <input type="checkbox"/> Lock in a RESTRICTED MEDICINE cupboard <input type="checkbox"/> For supply on a Named Doctor & Named Patient basis ONLY <input type="checkbox"/> High Alert <input type="checkbox"/> Certificate of Analysis required <input type="checkbox"/> Store in fridge (VP) OR cool place-use before expiry date (O/P)	
High Alert Label			

Select Drug

Restore Drug

Copy Drug

New Approved

New Proprietary

New Other

Ok

Close

Help

Active Approved Drug

DIGOXIN [UNLICENSED]
 100 micrograms/1mL
 Solution for Infusion



Basic Details Prescribing Details Supplementary Labels Expense Code Category Compliance Aid Boxes Packsizes

Drug Name

Strength micrograms/1mL

Form

Dose Description

VAT Code

Total Stock Count

- Containers
- Dose Units
- Weight
- Volume

Fast Search Code

Shelf Life

- Week
- Day

Codes National

BNF

National Stock No.

MDDF Number

dm+d Link

1 x 1mL Ampoule is equivalent to Homecare Dose

High Alert Label

Drug Flags

- Controlled Drug
- Unlicensed Medicine
- Lock in a RESTRICTED MEDICINE cupboard
- For supply on a Named Doctor & Named Patient basis ONLY
- High Alert
- Certificate of Analysis required
- Store in fridge (VP) OR cool place-use before expiry date (O/P)

dm+d Search

? X

Focus Drug
TACROLIMUS [PROGRAF] 1mg Capsules



dm+d

v1.2.0 (2022)

Search dm+d

dm+d Description dm+d ID

Filter dm+d Search

Show VMPs and AMPs

VMPs AMPs

Linked dm+d concept

AMP

dm+d Search Results - 26 rows

Type	dm+d ID	Name
AMP	209911000001103	Prograf 1mg capsules (Astellas Pharma Ltd)
AMP	37347311000001108	Prograf 1mg capsules (CST Pharma Ltd)
AMP	13947911000001107	Prograf 1mg capsules (DE Pharmaceuticals)
AMP	5570811000001104	Prograf 1mg capsules (Dowelhurst Ltd)
AMP	18065711000001103	Prograf 1mg capsules (Lexon (UK) Ltd)
AMP	17422111000001100	Prograf 1mg capsules (Mawdsley-Brooks & Company Ltd)
AMP	17625111000001105	Prograf 1mg capsules (Necessity Supplies Ltd)
AMP	36821711000001102	Prograf 1mg capsules (Originalis B.V.)
AMP	36809311000001108	Prograf 1mg capsules (Pharmaram Ltd)
AMP	37698711000001108	Prograf 1mg capsules (Pilsco Ltd)
AMP	14728611000001107	Prograf 1mg capsules (Sigma Pharmaceuticals Plc)

DMMAINTW - Drug Maintenance (Common)

? X

Active Approved Drug

TACROLIMUS [PROGRAF]
1 mg
Capsules



Basic Details Prescribing Details Supplementary Labels Expense Code Category Compliance Aid Boxes Packsizes

Drug Name

Strength mg

Form

Dose Description

VAT Code

Codes National

BNF

Total Stock Count Containers Dose Units Weight Volume

Fast Search Code

Shelf Life Week Day

National Stock No.

MDDF Number

dm+d Link

1 Capsule is equivalent to Homecare Dose

High Alert Label

Drug Flags

- Controlled Drug
- Unlicensed Medicine
- Lock in a RESTRICTED MEDICINE cupboard
- For supply on a Named Doctor & Named Patient basis ONLY
- High Alert
- Certificate of Analysis required
- Store in fridge (IP) OR cool place-use before expiry date (O/P)

Active Approved Drug

AMOXICILLIN
 250 mg
 Pwd for Soln for Inject Vials



Basic Details Prescribing Details Supplementary Labels Expense Code Category Compliance Aid Boxes Packsizes

Drug Name

Strength mg

Form

Dose Description VAT Code

Codes
 National

BNF

Total Stock Count
 Containers
 Dose Units
 Weight
 Volume

Fast Search Code

Shelf Life
 Week
 Day

National Stock No.

MDDF Number

dm+d Link

1 Vial is equivalent to
 Homecare Dose

High Alert Label

Drug Flags

- Controlled Drug
- Unlicensed Medicine
- Lock in a RESTRICTED MEDICINE cupboard
- For supply on a Named Doctor & Named Patient basis ONLY
- High Alert
- Certificate of Analysis required
- Store in fridge (VP) OR cool place-use before expiry date (O/P)

Active Approved Drug

SALBUTAMOL 2.5mg/2.5mL / IPRATROPIUM BROMIDE
 500 micrograms/2.5mL
 Nebuliser Liquid Unit Dose

JAC
PHM

Basic Details Prescribing Details Supplementary Labels Expense Code Category Compliance Aid Boxes Packsizes

Drug Name

Strength micrograms/2.5mL

Form

Dose Description

VAT Code

Codes
 National

BNF

Total Stock Count
 Containers
 Dose Units
 Weight
 Volume

Fast Search Code

Shelf Life
 Week
 Day

National Stock No.

MDDF Number

dm+d Link **VMP**

1 x 2.5mL is equivalent to
 Homecare Dose

High Alert Label

Drug Flags
 Controlled Drug
 Unlicensed Medicine
 Lock in a RESTRICTED MEDICINE cupboard
 For supply on a Named Doctor & Named Patient basis ONLY
 High Alert
 Certificate of Analysis required
 Store in fridge (VP) OR cool place-use before expiry date (O/P)

Active Approved Drug

POT CHLORIDE (20mmol/L) + NaCl + GLUCOSE (0.15%/0.45%/ 2.5%)

Infusion

JAC

PHM

Basic Details Prescribing Details Supplementary Labels Expense Code Category Compliance Aid Boxes Packsizes

Drug Name POT CHLORIDE (20mmol/L) + NaCl + GLUCOSE (0.15%/0.45%/ 2.5%)

Strength

Form Infusion

Dose Description x 1000mL

VAT Code

S

Codes

National

BNF 09.02.02.01 - Electrolytes and water

Total Stock Count

 Containers Dose Units Weight Volume

Fast Search Code

POT00 I

Shelf Life

 Week Day

National

Stock No.

MDDF Number

1021186

Modify

dm+d Link

VMP

37982611000001104

Modify

Potassium chloride 0.15% (potassium 20mmol/litre) / Glucose 2.5% / Sodium chloride I

1 x 1000mL is equivalent to

Homecare Dose

High Alert Label

Drug Flags

 Controlled Drug Unlicensed Medicine Lock in a RESTRICTED MEDICINE cupboard For supply on a Named Doctor & Named Patient basis ONLY High Alert Certificate of Analysis required Store in fridge (VP) OR cool place-use before expiry date (O/P)

Select Drug

Restore Drug

Copy Drug

New Approved

New Proprietary

New Other

Ok

Close

Help

Active Approved Drug

FLUTICASONE 125micrograms/dose / SALMETEROL [SIRDUPLA]
25 micrograms/dose
Inhaler



Basic Details Prescribing Details Supplementary Labels Expense Code Category Compliance Aid Boxes Packsizes

Drug Name

Strength micrograms/dose

Form

Dose Description

VAT Code

Codes
National

BNF

MDDF Number

dm+d Link
AMP

Containers
 Dose Units
 Weight
 Volume

Fast Search Code

Shelf Life
 Week
 Day

National Stock No.

Sirdupla 25micrograms/dose / 125micrograms/dose inhaler (Mylan)

dm+d Browser



Prescription Services

VTM
[View](#) Fluticasone + Salmeterol

Product name

Search by: VMP AMP VTM

VMP
[View](#) Fluticasone 125micrograms/dose / Salmeterol 25micrograms/dose inhaler CFC-free

AMP
[View](#) Sirdupla 25micrograms/dose / 125micrograms/dose inhaler (Mylan) [+]
[View](#) Sirdupla 25micrograms/dose / 250micrograms/dose inhaler (Mylan) [+]
[View](#) Sirdupla 25micrograms/dose / 250micrograms/dose inhaler (Waymade Healthcare Plc) [+]

AMPP
[View](#) 120 dose

- 7641 active drug files
- 2608 excluded (aseptic, trials etc.) – 34%
- 4644 mapped – 92% (61% of all files)
- 389 unmapped
- 2074 VMPs match dm+d description exactly (or abbreviated name) – 72%