NZHTS release note for July 2023

26 July 2023

This release note covers the monthly release of new content to the NZ Health Terminology Service (NZHTS) for July 2023.

Launched in December 2022, NZHTS is the health sector's one-stop source of standard terminologies and code sets for high quality digital health records and interoperability. NZHTS is a free service, available to all New Zealand health entities and their industry partners.

Learn more about NZHTS and how to use it on the Te Whatu Ora website and the Hira marketplace.

Previously released content

Release date	New content
December 2022	- SNOMED CT NZ Edition October 2022 release - National Health Index (NHI) code sets - Health Provider Index (HPI) code sets - HL7® FHIR® NZ Base Implementation Guide
February 2023	- NZ Pathology Observation Code Sets (NZPOCS) October 2023 release - NZ International Patient Summary (NZIPS) code sets for problems and conditions and for allergies and adverse reactions - MedDRA 25.1 pharmacovigilance codes
March 2023	- ANZSCO occupation codes - ISO country and language codes - DSM-IV mental health codes - Maternity care code sets - NZIPS medication code sets
April 2023	- SNOMED CT NZ Edition April 2023 release with reference sets for the following - Structured pathology reporting of cancer - Health consumer information - Family planning - Minor procedures
May 2023	- NZPOCS April 2023 release - All remaining NZIPS code sets

	• Aotearoa Immunisation Register (AIR) draft code sets • CVX and NZVX vaccination codes • Iwi affiliation codes • CanShare value sets for all SNOMED reference sets
June 2023	• NZ Medicines Terminology (NZMT) code sets

New content this release

In the July 2023 release we add:

- Ethnic group level 1 and level 2 codes
- MedDRA version 26.0 pharmacovigilance codes
- Read to SNOMED map
- NZMT July 2023 release

Ethnic group level 1 and level 2 codes

The approved standard for collecting coded ethnicity data in the health system is Ethnicity New Zealand Standard Classification 2005 v2.1.0, which has four levels.

- Level 1 and level 2 codes – the least specific levels – are now available as value sets in NZHTS
- Value sets for level 3 and level 4 codes will be included in our August 2023 release.

Code system

- **https://standards.digital.health.nz/ns/nz-ethnic-group-codes**

Value sets

- **https://nzhts.digital.health.nz/fhir/ValueSet/nz-ethnic-group-code-level-1**
- **https://nzhts.digital.health.nz/fhir/ValueSet/nz-ethnic-group-code-level-2**

Example queries

- **https://nzhts.digital.health.nz/fhir/ValueSet/$expand?url=https://nzhts.digital.health.nz/fhir/ValueSet/nz-ethnic-group-code-level-1**
- **https://nzhts.digital.health.nz/fhir/ValueSet/$expand?url=https://nzhts.digital.health.nz/fhir/ValueSet/nz-ethnic-group-code-level-2**

MedDRA version 26.0

MedDRA codes are used in pharmacovigilance reporting of adverse reactions to medicines. To support the process, we make MedDRA lowest level terms (LLT) code set available via NZHTS.

We also publish maps between MedDRA and SNOMED to enable SNOMED codes from digital health records to be translated to MedDRA codes as input to the individual case safety reports (ICSRs) used in the regulatory process.

MedDRA is published by international non-profit ICH, and the maps are jointly published by ICH and SNOMED International.

The new version available in NZHTS is MedDRA version 26.0, published by ICH in March 2023.

Rather than replace the previous version of MedDRA immediately, we have added version 26.0 alongside version 25.1 to allow implementers to try out the new version before cutover in the August 2023 release.

MedDRA code systems

- **https://nzhts.digital.health.nz/fhir/CodeSystem/meddra-llt** (version 25.1 currently, to be updated to version 26.0 in August 2023)
- **https://nzhts.digital.health.nz/fhir/CodeSystem/meddra-llt-26-0** (for trial in July 2023 only)

MedDRA value sets

- **https://nzhts.digital.health.nz/fhir/ValueSet/meddra-code** (version 25.1 currently, to be updated to version 26.0 in August 2023)
- **https://nzhts.digital.health.nz/fhir/ValueSet/meddra-code-26-0** (for trial in July 2023 only)

MedDRA/SNOMED CT maps

- The SNOMED to MedDRA concept map is **https://nzhts.digital.health.nz/fhir/ConceptMap/snomedct-meddra**
- The MedDRA to SNOMED concept map is **https://nzhts.digital.health.nz/fhir/ConceptMap/meddra-snomedct**

Read to SNOMED map

To assist with the move to SNOMED CT in primary care (as elsewhere), we publish a standard map from the outgoing Read v2 code system to SNOMED CT. The map is adapted from the equivalence table published by the UK NHS in 2016.

Read to SNOMED map

- **https://nzhts.digital.health.nz/fhir/ConceptMap/read-snomed-map**

Example query

The following query translates Read code R0904 with term code 00 to its SNOMED equivalent, concept 51197009, which is for stomach cramps.

- **https://nzhts.digital.health.nz/fhir/ConceptMap/$translate?url=https://nzhts.digital.health.nz/fhir/ConceptMap/read-snomed-map&system=http://read.info/readv2&code=R090400**

NZMT

NZMT is our standard terminology for medicines identification in Aotearoa, underpinning the NZ Universal List of Medicines (NZULM).

We're working with the NZ Medicines Formulary team, who manage NZULM and NZ Formulary (NZF), to do the integration work to enable NZHTS to serve simple NZMT code set lookups.

The Formulary team is, at the same time, developing a fully featured FHIR API for access to NZULM/NZF content for prescribing and dispensing, medicine reconciliation and other more complex use cases.

The latest iteration of NZMT content is now deployed to NZHTS for trial use. We expect details of the design to change as users experiment with the new resources.

The current content is based on the July 2023 release of NZMT.

NZMT concept types

NZMT is a SNOMED CT-based terminology with seven concept types. Each concept has a SNOMED CT identifier, a unique SNOMED fully specified name and preferred term, and a set of context-specific display terms.

Medicinal Product (MP) *paracetamol* NZMT SCTID 10037191000116105	Trade Product (TP) *Panadol* NZMT SCTID 10510491000116108
Medicinal Product Unit of Use (MPUU) *paracetamol 500 mg tablet* NZMT SCTID 10037311000116101	Trade Product Unit of Use (TPUU) *Panadol 500 mg tablet: film-coated, 1 tablet* NZMT SCTID 10510501000116104

Medicinal Product Pack (MPP) *paracetamol 500 mg tablet, 20 tablets* NZMT SCTID 10037331000116107	Trade Product Pack (TPP) *Panadol 500 mg tablet: film-costed, 20 tablets* NZMT SCTID 20025081000116103
	Containered Trade Product Pack (CTPP) *Panadol 500 mg tablet: film-coated, 20 tablets, blister pack* NZMT SCTID 50032671000117104

(Used in the examples, Panadol is a registered trademark of GlaxoSmithKline.)

NZMT code system

The NZMT code system set has the canonical URI **http://nzmt.org.nz**

NZMT value sets

We have created a value set for each of the above NZMT concept types:
- MP value set **https://nzhts.digital.health.nz/fhir/ValueSet/nzmt-mp**
- MPUU value set **https://nzhts.digital.health.nz/fhir/ValueSet/nzmt-mpuu**
- MPP value set **https://nzhts.digital.health.nz/fhir/ValueSet/nzmt-mpp**
- TP value set **https://nzhts.digital.health.nz/fhir/ValueSet/nzmt-tp**
- TPUU value set **https://nzhts.digital.health.nz/fhir/ValueSet/nzmt-tpuu**
- TPP value set **https://nzhts.digital.health.nz/fhir/ValueSet/nzmt-tpp**
- CTPP value set **https://nzhts.digital.health.nz/fhir/ValueSet/nzmt-ctpp**

NZMT concept maps

We have created maps between certain NZMT concept types:
- TP to MP map **https://nzhts.digital.health.nz/fhir/ConceptMap/nzmt-tp-mp**
- TPUU to MP map **https://nzhts.digital.health.nz/fhir/ConceptMap/nzmt-tpuu-mp**
- CTPP to MPUU map **https://nzhts.digital.health.nz/fhir/ConceptMap/nzmt-ctpp-mpuu**

Example queries

- Look up an NZMT code (amifampridine 10 mg tablet) **https://nzhts.digital.health.nz/fhir/CodeSystem/$lookup?system=http://nzmt.org.nz&code=10006151000116107**

- Look up an MP concept (paracetamol)
  https://nzhts.digital.health.nz/fhir/ValueSet/$expand?url=https://nzhts.digital.health.nz/fhir/ValueSet/nzmt-mp&filter=paracetamol
- Look up a TP concept (Panadol)
  https://nzhts.digital.health.nz/fhir/ValueSet/$expand?url=https://nzhts.digital.health.nz/fhir/ValueSet/nzmt-tp&filter=panadol
- Look up a mapped TP concept (Panadol)
  https://nzhts.digital.health.nz/fhir/ConceptMap/$translate?url=https://nzhts.digital.health.nz/fhir/ConceptMap/nzmt-tp-mp&system=http://nzmt.org.nz&code=10510491000116108
- Look up a mapped TPUU concept (Panadol 500mg tablet)
  https://nzhts.digital.health.nz/fhir/ConceptMap/$translate?url=https://nzhts.digital.health.nz/fhir/ConceptMap/nzmt-tpuu-mp&system=http://nzmt.org.nz&code=10510501000116104
- Look up a mapped CTPP concept (Panadol blister pack)
  https://nzhts.digital.health.nz/fhir/ConceptMap/$translate?url=https://nzhts.digital.health.nz/fhir/ConceptMap/nzmt-ctpp-mpuu&system=http://nzmt.org.nz&code=50114941000117107

Upcoming releases

New content we'll release in coming months includes:

- In August 2023, clinical document metadata code sets, ethnic group level 3 and level 4 codes
- In September 2023, UCUM (units of measure), oral health code sets
- SNOMED CT NZ Edition October 2023 release

News and education

Thank you to the over 250 people who attended our FHIR, SNOMED and NZHTS Learnathon in June.

Register at the links for our next two online events:

- **Advancing SNOMED CT implementation series** with SNOMED International, beginning 24 August 2023 snomed.org/advancing-snomedct-implementation
- SNOMED NZ Open Forum, 10 October 2023

Links

The FHIR API endpoint for NZHTS is https://nzhts.digital.health.nz/fhir

Browse to this endpoint to register as a service user.

To request an NZHTS API key email standards@health.govt.nz

You can find all available NZHTS content listed here:

- https://nzhts.digital.health.nz/fhir/CodeSystem
- https://nzhts.digital.health.nz/fhir/ValueSet
- https://nzhts.digital.health.nz/fhir/ConceptMap

See our Github repository for examples of code set lookups using the API. We also have Postman collections to share.

See also our SNOMED CT NZ Edition April 2023 release note

Contact us

Please email any enquiries to standards@health.govt.nz or join our chat site at https://forum.hinz.org.nz/c/standards