NZHTS release note for August 2024

16 August 2024

This release note covers the monthly release of new content to the NZ Health Terminology Service (NZHTS) for August 2024.

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 our website and [Digital Services Hub](#).

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
July 2023	• Ethnic group level 1 and level 2 codes • MedDRA version 26.0 pharmacovigilance codes • Read to SNOMED map • NZMT July 2023 release
October 2023	• CanShare reference sets • Assistance and preferences reference set • Common patient friendly terms reference set • Female pelvic surgical mesh injury reference set • Oral health reference sets
November 2023	• MedDRA version 26.1 • Rheumatic fever code sets
March 2024	• Unified Code for Units of Measure (UCUM)
April 2024	• SNOMED NZ Edition April 2024 release • MedDRA 27.0 • LOINC 2.77 • NZ Medicines Terminology (NZMT) April 2024 release
May 2024	• CVX vaccination codes • Nutrition Care Process Terminology (NCPT) Nutrition Reference Set • NZPOCS April 2024 release • NZ Medicines Terminology (NZMT) May 2024 release
June 2024	• NZPS Observation Vaping Status • Ethnicity code sets version 2.1.0 • NZ Medicines Terminology (NZMT) June 2024 release
July 2024	• Language code system • NHI language value set • 99NZREL – Relationship concept mapping table • NZ Medicines Terminology (NZMT) July 2024 release

New content this release

- Unified Code for Units of Measure (UCUM)

- NZ Medicines Terminology (NZMT) August 2024 release
- Omaha System

UCUM

This release updates the UCUM code system to version 2.2 in NZHTS. UCUM is the chosen standard for representing units of measure in lab results.

This new version, the first since 2017, contains two new units:

- [NTU] for Nephelometric Turbidity Unit
- [FNU] for Formazin Turbidity Unit

Code system URI http://unitsofmeasure.org

Value set URI http://hl7.org/fhir/ValueSet/ucum-common

Example queries:

- https://nzhts.digital.health.nz/fhir/CodeSystem/v3-ucum
- https://nzhts.digital.health.nz/fhir/ValueSet/ucum-common

NZMT August 2024 release

NZMT is our standard terminology for medicines identification, underpinning the NZ Universal List of Medicines (NZULM) and New Zealand Formulary (NZF).

We source NZMT data once per month from NZULM to enable NZHTS to serve simple NZMT code set lookups.

NZF has a fully featured FHIR API for access to NZULM/NZF content for prescribing and dispensing, medicine reconciliation and other more complex use cases.

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**	**Trade Product Pack (TPP)** **Panadol 500 mg tablet: film-costed, 20 tablets**

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

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/nzmttpuu-mp**

CTPP to MPUU map **https://nzhts.digital.health.nz/fhir/ConceptMap/nzmtctpp-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-tpmp&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-tpuump&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-ctppmpuu&system=http://nzmt.org.nz&code=50114941000117107

Omaha System

This is the first release of the Omaha System reference set package in NZHTS.

Omaha System is an interface taxonomy (pūnaha whakarōpū) designed to enable swift, accurate point-of-care documentation using plain words. It is mapped to larger reference taxonomies, including SNOMED CT[1].

We acknowledge our partner Help4U in making the Omaha System available via NZHTS.

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[1] *Omaha System is mapped to SNOMED CT®, is a recognised code system within Health Level Seven (HL7®), and is congruent with the reference terminology model for the International Organization for Standardization (ISO). It is recognised as a standardised terminology by the American Nurses Association, is a member of the Alliance for Nursing Informatics, meets US Department of Health and Human Services interoperability standards for EHRs, and is integrated into the National Library of Medicine's Metathesaurus; CINAHL; and Logical Observation Identifiers, Names, and Codes (LOINC®).*

The Omaha System reference set contains consumer-facing, plain language descriptions for the NZ context (GB English spelling) across:

- 4 Domains:

  Environmental, Physiological, Psychosocial and Health-related Behaviours; representing:

  - 42 Problems:

    (defined either as Challenges or Strengths); described by:

    - 389 Signs and Symptoms

    - 3 Risk Modifiers (Actual, Potential or Health Promotion)

    - 3 Context Modifiers (Individual, Family/Whānau, Community)

- 4 Intervention Categories:

  Providing context to:

  - 76 Intervention Targets

- 3 Outcome Rating Scales:

  - Knowledge, Behaviour and Status

A Te Reo Māori translation of the Omaha System (NZ consumer-facing context) has been completed by certified translators and will be available as a language extension in future releases. A FHIR Implementation Guide to complement the NZHTS release is in development and expected to be available later in 2024.

For more information on the Omaha System contact info@help4u.co.nz

About Omaha System

Pioneered by the home-visiting (district) nurses of Omaha, Nebraska in the United States in the 1970s, today Omaha System is used internationally in home-based, community and institutional settings. It has so far been translated into 18 languages, in both medical and consumer-facing formats.

International proponents, led by The Omaha System Partnership for Knowledge Discovery and Health Care Quality (University of Minnesota) have undertaken comprehensive theoretical and applied research to refine the quality, relatability and usability of the taxonomy across four fields of implementation:

1. Practice

2. Education

3. Research

4. Information Technology

In the early 2010s, the Netherlands Government mandated Omaha System for implementation of neighbourhood models of care, pioneering consumer-centric innovation around the world. The use of Omaha System is particularly effective in the design, development and deployment of guidelines and pathways for community-based providers, allied health professionals and welfare agencies.

Code system URI **https://nzhts.digital.health.nz/fhir/CodeSystem/omaha-system**

Example queries

Lookup code SS3507 for 'does not follow recommended nutrition plan': https://nzhts.digital.health.nz/fhir/CodeSystem/$lookup?code=SS3507&system=https://standards.digital.health.nz/ns/omaha-system

Upcoming releases

New content in following releases will include:

- Long term conditions reference sets
- Primary care reference sets
- General dentistry and odontogram reference sets
- MedDRA 28.0
- Ethnicity v2.0.0 to v2.1.0 concept mapping
- NZ Medicines Terminology (NZMT) September 2024 release
- SNOMED NZ Edition October 2024 release

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@healthnz.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.

Contact us

Please email any enquiries to standards@healthnz.govt.nz or join our chat site at https://ehealthforum.nz/c/standards