# SNOMED NZ Hui

15 October 2024

# Opening Karakia

# Whakataka Te Hau

Whakataka te hau ki te uru

Whakataka te hau ki te tonga

Kia mākinakina ki uta

Kia mātaratara ki tai

E hī ake ana te atakura

He tio, he huka, he hauhū

Tīhei mauri ora

*Get ready for the westerly*

*and be prepared for the southerly.*

*It will be icy cold inland,*

*and icy cold on the shore.*

*May the dawn rise red-tipped on ice,*

*on snow, on frost*

# Agenda

- Welcome and opening karakia
- SNOMED International update
- SNOMED NZ Edition October 2024 release
- NZ Health Terminology Service update
- SNOMED for health service types
- CanShare content update
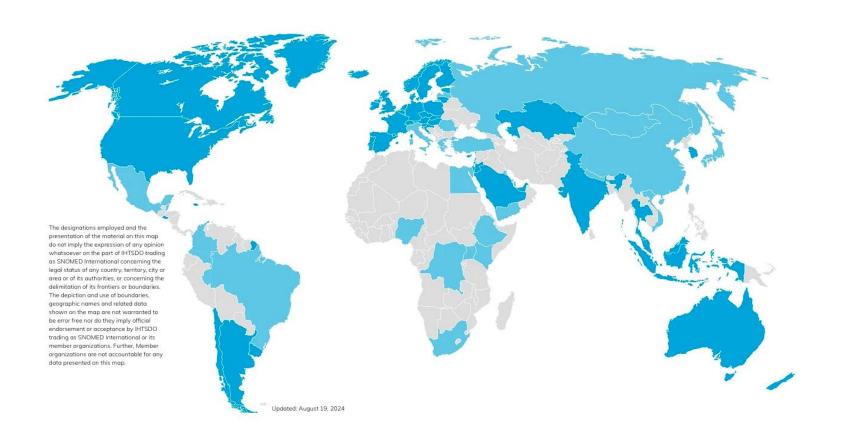- SNOMED Working Bee at DHWNZ
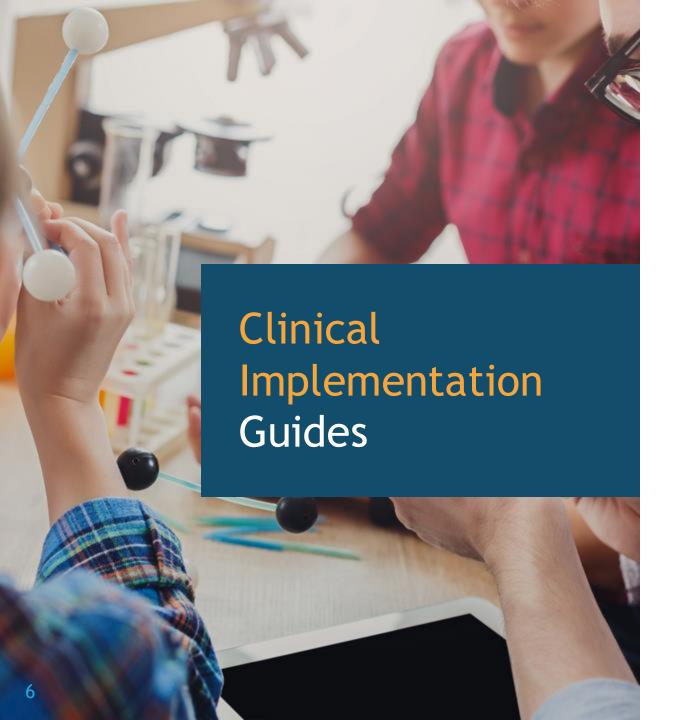- Q & A
- Closing karakia

# SNOMED International **Members**

SNOMED International welcomed **Belize** as the 50th member and
**Taiwan, Republic of China**, as the affiliate licensee of SNOMED International

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Updated: August 19, 2024

**A Growing Community**

# Clinical Implementation Guides

o Clinical Implementation Guides (CIG) have been developed to inform users of the structure of content in the International Release, details of derivative products and to provide implementation advice

o Published guides

  o **Allergy, Hypersensitivity and Intolerance CIG**

  o **Cancer Synoptic reporting CIG**

o The guides are available from Confluence, also supported by a PDF download

# New SNOMED CT Implementation course



- Flexible approach

- No webinars

- Topic specific modules

  ➢ *Badge received for each complete module*

- Stream certificate (Modules + Assessment)

- Full implementation course certificate

  ➢ *On completion of all modules and assessments*

# October Business meetings and SNOMED CT EXPO 2024
## 19-25.October 2024

What's on this week

Business meeting schedule available:
https://confluence.ihtsdotools.org/wotw

**SNOMED CT EXPO 2024**

OCTOBER 24-25, 2024 | SEOUL, KOREA

Meet the future of health information in Seoul.

**Register at** https://www.snomed.org/snomedct-expo

THANK YOU

SNOMED International
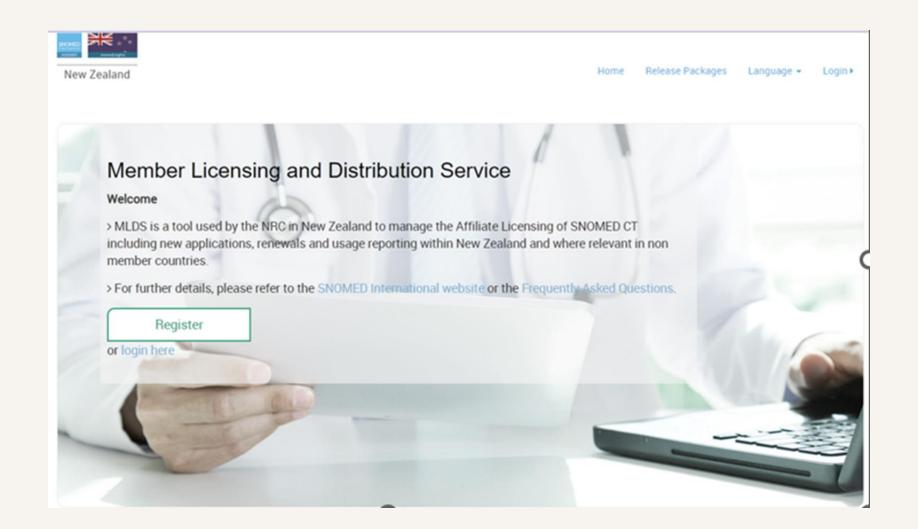
SNOMED International: Delivering SNOMED CT

snomedexpo.org    @snomedct    linkedin.com/company/ihtsdo/

https://mlds.ihtsdotools.org/#/landing

https://browser.ihtsdotools.org/?

# • Shrimp/🦐 SNOMED CT Browser (csiro.au)
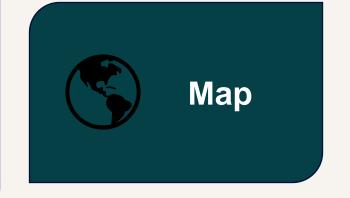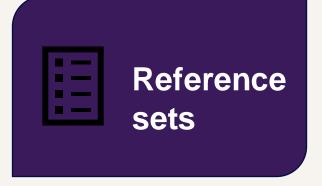
# SNOMED NZ NRC

## SNOMED CT National Release Centre

The purpose of the National Release Centre is to support implementers and their adoption of SNOMED CT within New Zealand.

**Also in this section**

Health Identity

Health Provider Index

Advice on the use of Large Language Models and Generative AI in Healthcare

The Aotearoa Immunisation Register (AIR)

Book My Vaccine

Digital maturity assessments

eMedicines and the New Zealand e-Prescription Service

Data and digital standards

**SNOMED CT**
SNOMED CT is a comprehensive system of clinical terminology that comprises over 350,000 concepts and 1,200,000 terms in health and social care.

**SNOMED International**
New Zealand is a founder member of SNOMED International and plays an active part in its governance and operation.

**Content Request Service**
Requesting additions or updates to SNOMED CT through the New Zealand National Release Centre

**New Zealand Edition of SNOMED CT**
Our standard SNOMED CT product is the SNOMED CT New Zealand Edition.

https://www.tewhatuora.govt.nz/our-health-system/digital-health/snomed-ct-national-release-centre/

# SNOMED CT NZ Edition

## Reference sets

SNOMED CT reference sets are created whenever it is useful to narrow the selection of concepts for some purpose. For many purposes, reference sets are not required and SNOMED CT expression constraint language can be used to guide the user and enforce business rules.

The latest release includes the following reference sets and the content of each can be viewed online in the SNOMED International reference set directory at SNOMED
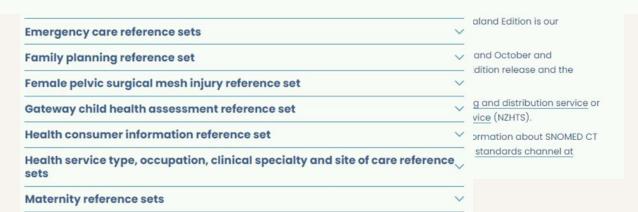
### Emergency care reference sets

Three reference sets provide emergency department clinicians with a standard set of concepts for chief presenting complaint and diagnosis.
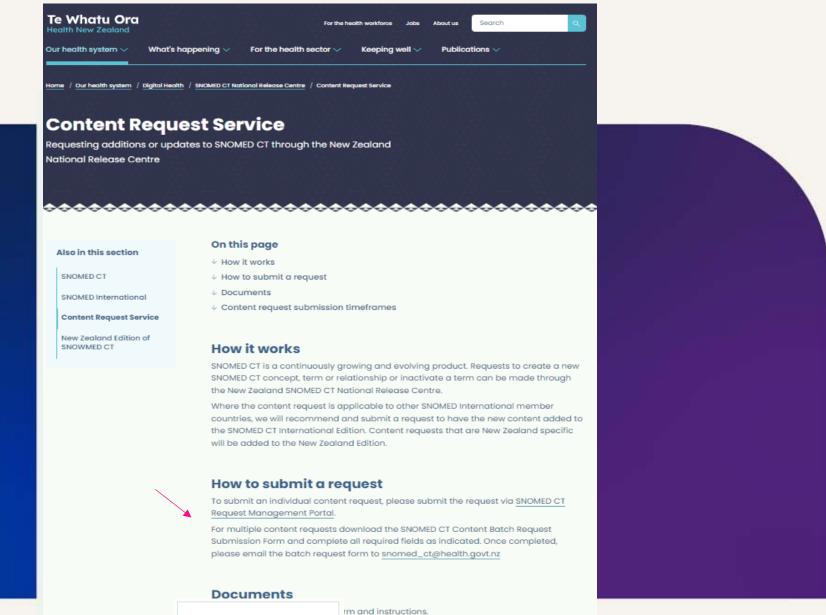
Hospitals submit SNOMED-coded ED visit data to the National Non-Admitted Patient Collection (NNPAC). NCAMP 2020 introduced this requirement for all hospitals from 1 July 2021.

A national ED clinical information reference group meets every six months to oversee the content of these refsets and their use.

- 61000210102 New Zealand emergency care diagnosis reference set

- 71000210108 New Zealand emergency care presenting complaint reference set

- 321000210102 New Zealand emergency care procedure reference set

| | |
|---|---|
| Emergency care reference sets | ∨ |
| Family planning reference set | ∨ |
| Female pelvic surgical mesh injury reference set | ∨ |
| Gateway child health assessment reference set | ∨ |
| Health consumer information reference set | ∨ |
| Health service type, occupation, clinical specialty and site of care reference sets | ∨ |
| Maternity reference sets | ∨ |

...aland Edition is our

and October and ...dition release and the

...g and distribution service or ...vice (NZHTS).

...ormation about SNOMED CT ... standards channel at

Search 🔍

# SNOMED CT Content Management Portal

## SNOMED CT REQUEST MANAGEMENT PORTAL

This Request Portal is for submitting requests to add, update or change SNOMED CT content for a National Extension. Please select the type of request you require from the options below.

### AUTHENTICATION

If you do not have an account you can apply for one HERE

Username

Password

### REQUEST DETAILS

- ● ADD CONCEPT
- ○ ADD DESCRIPTION
- ○ ADD RELATIONSHIP
- ○ CHANGE DESCRIPTION
- ○ CHANGE RELATIONSHIP
- ○ INACTIVATE DESCRIPTION
- ○ INACTIVATE RELATIONSHIP
- ○ OTHER

Summary

Language Refset

Context Refset

New FSN

New Preferred Term

New Synonyms

Parent Concept

Type to Search...

Justification

Reference

snomed@tewhatuora.govt.nz

# NZHTS Release Update

| Code system | Purpose/Usage |
|---|---|
| • SNOMED CT NZ Edition October 2024 | A comprehensive clinical terminology including New Zealand preferred terms provides precise language for healthcare services. |
| • MedDRA 27.1 (six-monthly release) | Medical Dictionary for Regulatory Activities - used in pharmacy services system |
| • LOINC 2.78 and NZPOCS (six-monthly release) | Logical Observation Identifiers Names and New Zealand Pathology Observation Codes - specifically used in laboratory systems for test results, clinical measurements, and outcomes reporting |
| • NZ Medicines Terminology (monthly release) | The standard source of commonly - used information about medicines in New Zealand and is used in most medical and pharmacy software |
| • Unified Code for Units of Measure (UCUM) | Unified Code for Units of Measure - used in prescribing, lab results, etc. |
| • CVX vaccination codes | Codes for vaccines, used in immunization records, surveillance, and other clinical documentation. |
| • ISO 639:2023 language code system | Our chosen International standard for language codes, used for recording a person's preferred languages |
| • Stats NZ classifications | Building Type, Central Product Classification, Country 2-alpha and 4-numeric, Currency, Dwelling Type, Gender, Industry, Iwi and Iwi-Related Groups, Language |

# Examples

- <u>How to Query NZHTS Emergency Care Presenting Complaint Reference Set and Save Results in CSV Format Using Postman</u>
- <u>Solutions for Downloading SNOMED CT RefSets</u>
- <u>A systematic way to identify all codes that are children of a given code within SNOMED CT e.g.  find all descendant codes of the 'Diabetes Mellitus' concept</u>

# SNOMED for health service types

Samantha Burchell, Product Owner and Operations Manager (samantha@healthpoint.co.nz)
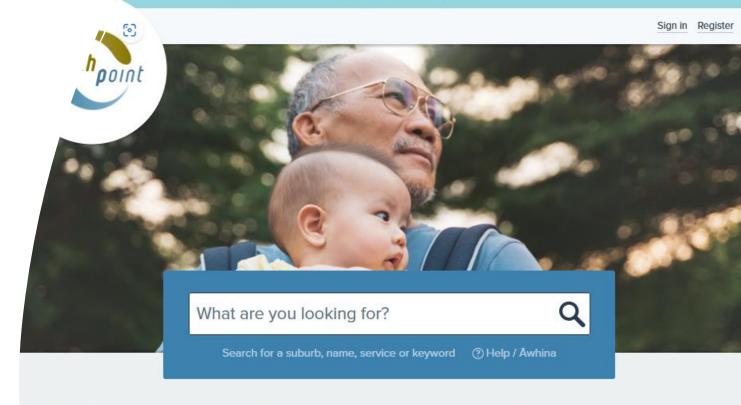
Stephanie Kerruish, Senior Standards Advisor, Data & Analytics, Performance ,Funding and Outcomes

# NZ Health and Social Services Directory

- Detailed information about health and social services

- 1 million visitors per month

- 8,779 active services, 6,887 locations, 8,603 Practitioners, 12,144 PractitionerRole

- Partnership with helplines

- Services own and edit their own info – more than 80% reviewed in last 4 months

- 100 – 400 services update per day
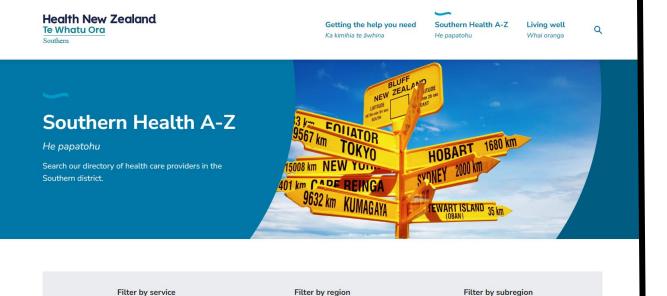
# Healthpoint API to share the Healthpoint website

- Connecting people to health services

- A lot of organisations need a directory, but don't have the time or resource to maintain it

- Single, central reliable source of truth. Reduce system wide duplication

- Reuse in many contexts beyond Healthpoint

- Use HL7$^{®}$ FHIR$^{®}$ as standard for data exchange to support uptake and interoperability

- Users can query the API for Healthcare services by a category, specialty, programme or type of service e.g. Pharmacy services, Immunisation

# Use of the Healthpoint API
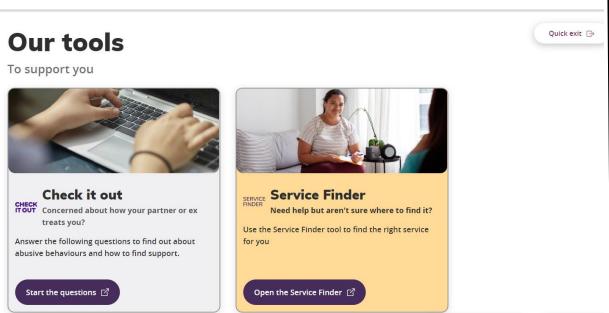
200 + registered users
Government departments, Māori health organisations, districts, PHOs, practice management software, health apps, private hospitals, health insurers, health organisations, Ambulance

# Why are we using SNOMED?

**Connect people to health services, according to clinical need**
Examples use cases for Healthpoint API: health promotion, patient journey mapping, referral to appropriate services and appointment booking

**Clear definitions**
Reducing the chance of misinterpreting a clinical need, and ensuring greater accuracy when connecting people to the correct service

**Patient friendly terms English and Te Reo Māori**
Working with SNOMED National Release Centre to validate our mapping and provide a SNOMED patient friendly concept in each instance

**FHIR conformant**
Use "category", "type" and "specialty" and SNOMED as the clinical terminology within that

**Flexibility**
We can now change our naming within the Healthpoint website without having to consult every API user and not break their implementation

**Interoperability**
the machines talk faster

# Technical Upgrade

Step 1: Data remodelling and editorial upgrade – Healthpoint website

Step 2: Mapping Healthpoint concepts to SNOMED CT providing patient friendly terms and Te Reo Māori translations. Display in Healthpoint website

Step 3: Inclusion in Healthpoint API
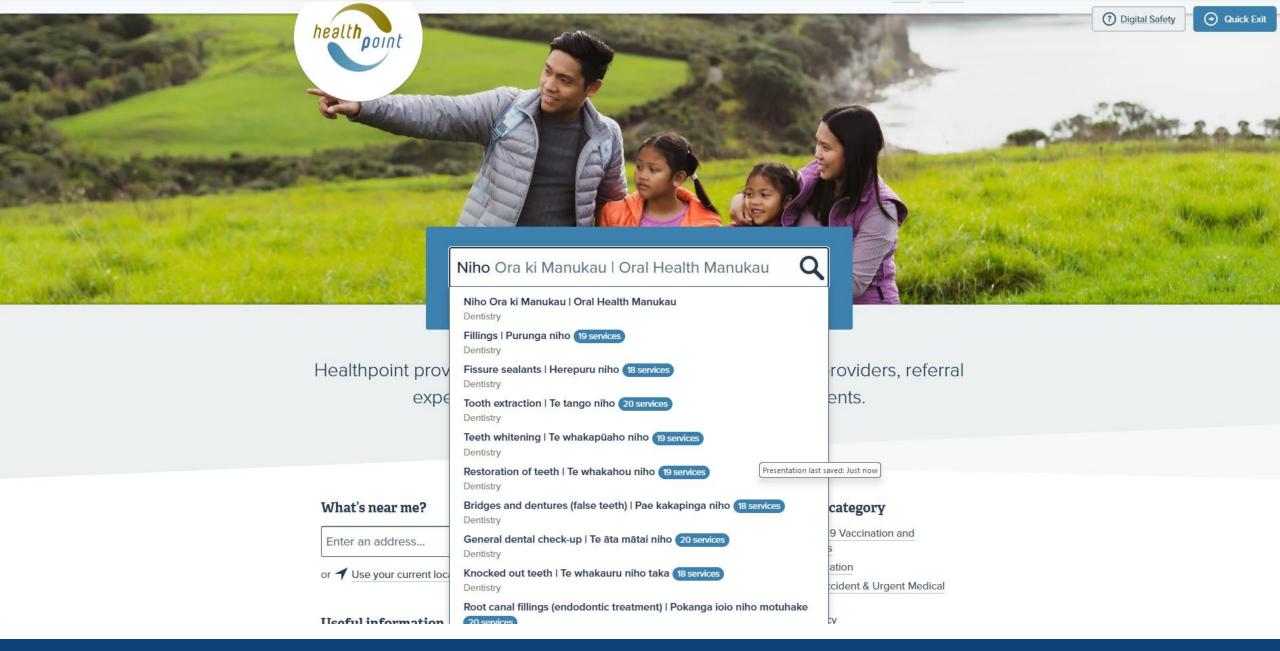
- Mapping review

- Patient Friendly terms alignment

- Healthpoint working group review

- New SNOMED CT terms

- List finalized

- Request Te Reo Māori translations

- Patient friendly terms and Te Reo Māori added to SNOMED CT concepts

- Health Service reference set updated

- October release of the SNOMED NZ Edition

National Release Centre

# Use of SNOMED queries in the Healthpoint API

**Queries:**

- **Cervical screening (type):** https://uat.healthpointapi.com/baseR4/HealthcareService? type=171149006 (987 healthcare service results)

- **Kaupapa Māori Cervical screening services only (category AND type):** https://uat.healthpointapi.com/baseR4/HealthcareService?category=171641000210104&type=171149006 (74 service results)

- **Cervical screening  (type) and co-ordinates** (top 10 results, closest to farthest away): https://uat.healthpointapi.com/baseR4/HealthcareService? type=171149006&latitude=-36.899863&longitude=174.740481

- **Private specialty (category) AND Cardiology (specialty)services**: https://uat.healthpointapi.com/baseR4/HealthcareService?category=382041000210102&specialty=394579002 (31 service results)

```json
        {
            "coding": [
                {
                    "system": "http://snomed.info/sct",
                    "code": "789789009",
                    "display": "Traditional Māori medicine"
                }
            ],
            "text": "Rongoa Māori"
        }
    ],
    "type": [
        {
            "coding": [
                {
                    "system": "http://snomed.info/sct",
                    "code": "181711000210100",
                    "display": "Screening service"
                }
            ],
            "text": "Health screening"
        },
        {
            "coding": [
                {
                    "system": "http://snomed.info/sct",
                    "code": "171149006",
                    "display": "Screening for malignant neoplasm of cervix
                }
            ],
            "text": "Cervical screening"
        },
```

# How can we help

SNOMED CT
content queries

SNOMED content
for projects

Review of
mapping

Reference set
updates

# standards@tewhatuora.govt.nz

Te Kāwanatanga o Aotearoa
New Zealand Government

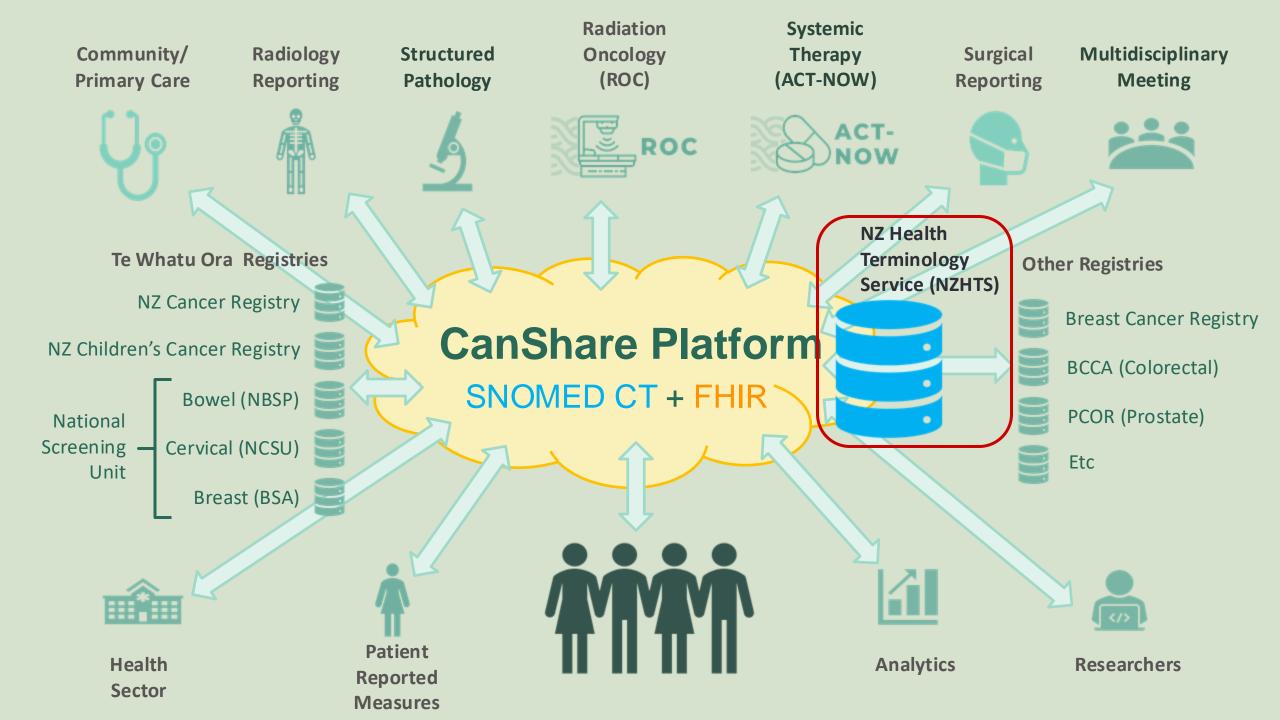Health New Zealand
Te Whatu Ora

# Thank you

Health New Zealand
Te Whatu Ora

# CanShare Oct 2024 SNOMED CT Update

Dr Linda Bird
SNOMED CT Implementation Lead
Data & Analytics, Te Aho o Te Kahu

# CanShare SNOMED CT Resources

**605 Reference Sets** (184 new and 137 updated in October 2024)

1. **Cancer streams**, **substreams** and **primary types**, e.g. |Gallbladder primary|

2. **Topographies** - for primary site of cancer, e.g. |Kidney|
   - Breast, Thoracic, Gastrointestinal, Female genital, Genitourinary, Soft tissue and bone, Skin, Head and neck, Central nervous system, Endocrine and neuroendocrine, Eye

3. **Histologies** - for histologic type of primary tumour, e.g. |Squamous cell carcinoma|
   - Haematology, Breast, Thoracic, Gastrointestinal, Female genital, Genitourinary, Soft tissue and bone, Skin, Head and neck, Central nervous system, Endocrine and neuroendocrine, Eye

4. **Grading**, **Staging**, and **Prognostic scoring** - for some cancers (more to come in 2025)

5. **Genetic tests***, **Lymph nodes***, **Disease responses**, **Additional data***, e.g. |HER2 status|

**CanShare Dialect**

231621000210105 **|New Zealand English CanShare context language reference set|**

# CanShare SNOMED CT Resources

**1,479 FHIR Value Sets** - for medical & radiation oncology, haematology, pathology

1. **Cancer streams, substreams and primary types,** e.g. |Gallbladder primary|

2. **Topography** and **Histology,** e.g. |Kidney|, |Squamous cell carcinoma|

3. **Laterality** and **Side**, e.g. |Left|, |Right side|, |Central|

4. **Grading, Staging,** and **Prognostic scoring** - for some cancers (more to come in 2025)

5. **Genetic tests**, **Lymph nodes**, **Disease responses**, **Additional data**, e.g. |HER2 status|

**FHIR Concept Map** - Maps user interface fields to value sets (context-driven)

**canshare-select-valueset-map**

**FHIR Code System** - Provides a pre-release publication process

**snomed-unpublished**

# Accessing CanShare Resources

**Browse** CanShare value sets and concept map demo

- https://poc.canshare.co.nz/query.html

**Download** NZ SNOMED CT edition from MLDS distribution service

- https://mlds.ihtsdotools.org/#/landing/NZ

**Connect** to the New Zealand Health Terminology Service

- https://nzhts.digital.health.nz/fhir (REST API)
- Contains **ALL** CanShare SNOMED CT content
    - Value sets, Reference sets, Dialect, Concept map and Code systems
- Value set $expand example
    - https://nzhts.digital.health.nz/fhir/ValueSet/$expand?url=https://nzhts.digital.health.nz/fhir/ValueSet/canshare-sact-basis-of-cancer-diagnosis&_summary=false&displayLanguage=en-x-sctlang-23162100-0210105

# SNOMED Working Bee DHWNZ 2024

Come develop our SNOMED products with us on the 2nd of December!

It will be a full day of activity with presentations, a panel and hands-on workshops in the afternoon

Speakers include:

- Manu Sione (ePatient Iosefa)
- David Hay
- Dr James McKelvie
- Samantha Burchell
- Dr Matt Valentine
- Kate Ebrill

Register here: https://hinz.eventsair.com/dhwnz24/pre-conference-workshops

# Question & Answer

# Closing Karakia

## He Karakia Whakakapi

Kia whakairia te tapu

Kia wātea ai te ara

Kia turuki whakataha ai

Kia turuki whakataha ai

Haumi e. Hui e. Tāiki e!

*Restrictions are moved aside*

*So the pathway is clear*

*To return to everyday activities*