

nzhis

New Zealand Health Information Service

MEDICAL WARNINGS SYSTEM

DATA DICTIONARY

Version 6.1

October 2003



MINISTRY OF
HEALTH

MANATŪ HAUORA

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New Zealand Health Information Service

The New Zealand Health Information Service (NZHIS) is a group within the Ministry of Health responsible for the collection and dissemination of health-related data. NZHIS has as its foundation the goal of making accurate information readily available and accessible in a timely manner throughout the health sector. The vision of NZHIS is to be recognised as a leader in the provision of health information services, and to support the health sector's ongoing effort to improve the health status of New Zealanders.

Reporting environments

Reporting environments such as Business Objects and data extracts will not necessarily contain all data described in this Data Dictionary.

Publications

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Published by New Zealand Health Information Service

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Introduction

- Basis** This revised dictionary builds on the information that was previously published in the Medical Warnings System (MWS) Data Dictionary and the Guide to Data Requirements.
- Objectives** The objectives of the New Zealand Health Information Service (NZHIS) Data Dictionaries are to:
- describe the information available within the National Collections
 - promote uniformity, availability and consistency across the National Collections
 - support the use of nationally agreed protocols and standards wherever possible
 - promote national standard definitions and make them available to users.
- It is hoped that the greater level of detail along with clear definitions of the business rules around each element will assist with providing and using the data.
- Audiences** The target audiences for NZHIS Data Dictionaries are data providers, software developers, and data users.
- New format** All data element definitions in the NZHIS Data Dictionaries are presented in a format based on the Australian Institute of Health and Welfare National Health Data Dictionary. This dictionary is based on the ISO/IEC Standard 11179 *Specification and Standardization of Data Elements*—the international standard for defining data elements issued by the International Organization for Standardization and the International Electrotechnical Commission.
- The format is described in detail in Appendix A of this dictionary.
- Changes to dictionary format** A more rigorous approach to recording changes in the data elements has been introduced in these dictionaries along with background material on the features of time-series data for each element.
- In summary, the changes to the data dictionaries include:
- standardisation of the element names so that, for instance, a healthcare user's NHI number is referred to as NHI number in all collections
 - elements are listed alphabetically within each table, and the tables are organised alphabetically
 - each table is described
 - verification rules, historical information, and data quality information are included
 - alternative names for the elements are listed
 - information about how the data is collected is given
 - related data, and references to source documents and source organisations are included
 - an alphabetical index is included
 - code tables are included with the element, or a reference given to the NZHIS web site (for large or dynamic code tables).

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Medical Warnings System (MWS)

Scope	<p>Purpose</p> <p>The Medical Warnings System is a value-added service closely aligned with the National Health Index. It is designed to warn healthcare providers of the presence of any known risk factors that may be important when making clinical decisions about patient care.</p> <p>Content</p> <p>The MWS comprises the following features:</p> <ul style="list-style-type: none"> • medical warnings incorporating adverse medical reactions and significant medical conditions • event summaries incorporating identification of the facility where the patient's medical record is located • donor information incorporating donor summaries and healthcare user contact details.
Start date	<p>The MWS was initially part of the National Master Patient Index, implemented in 1977.</p>
Guide for use	<p>Specifically aimed at healthcare providers.</p> <p>Classification codes are not fully reported and are not validated. Generally, the description of the drug and the reaction is of most interest to users.</p>
Collection methods – guide for providers	<p>The responsibility for maintaining the content of the MWS rests primarily with its users, the healthcare providers.</p> <p>The codes for Adverse Medical Reactions and Significant Medical Conditions are taken from the International Classification of Diseases manual currently in use nationally in New Zealand.</p> <p>For Adverse Medical Reactions, external cause codes from the ICD-9-CM-A range E930-E949 are used.</p> <p>For Significant Medical Conditions, diagnosis codes from the ICD-9-CM-A range 001-999 are used.</p>
Frequency of updates	<p>Ongoing, as required.</p>
Security of data	<p>Access to the MWS is restricted to healthcare providers approved by the NZHIS.</p> <p>Access to the MWS features is dependent upon a valid NHI number (also known as HCU identifier) for the healthcare user being provided.</p>
Privacy issues	<p>Under the Health Information Privacy Code 1994, healthcare users must be advised that information may be entered on the MWS and that they have the right to refuse permission for this to be entered.</p>
National reports and publications	<p>The Centre for Adverse Reactions Monitoring (CARM) receives information from GPs and hospitals. Eventually this will be provided directly from MWS. CARM aims to determine which adverse reactions are life-threatening to patients.</p>
Data provision	<p>None.</p>

Contact and Donor Information table

Table name:	Contact and Donor Information table		
Name in database:	hcu_contact_tab	Version: 1.0	Version date: 26-May-2003
Definition:	Donor summary information plus an individual or organisation identified by a healthcare user as the contact in case of an emergency or other event necessitating the involvement of that person or organisation.		
Guide for Use:	Data originally sourced from lifetime driver's licences from 1976 onwards: copies were sent to the nearest hospital. Data was collected inconsistently and some information was not entered into the system.		
	Some DHBs store information locally and do not update the national database.		
	Contains historical data.		
Primary Key:	NHI number Information last updated		
Business Key:			
Relational Rules:	Uniquely linked to Healthcare User.		

Contact after-hours phone

Administrative status

Reference ID:	A0041	Version: 1.0	Version date: 01-Jan-2003
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Identifying and defining attributes

Name:	Contact after-hours phone		
Name in database:	phone		
Other names:			
Element type:	Data element		
Definition:	The telephone number most likely to reach the designated contact person outside the normal working hours of 8 am to 5 pm, Monday to Friday.		
Context:			

Relational and representational attributes

Data type:	varchar	Field size: 25	Layout: Free text
Data domain:			
Guide for use:			
Verification rules:			
Collection method:	STD codes should always be included, and country codes if appropriate.		
Related data:			

Administrative attributes

Source document:	
Source organisation:	

Contact family name

Administrative status

Reference ID: A0037

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Contact family name

Name in database: family_name

Other names:

Element type: Data element

Definition: The family name (surname) of the healthcare user's contact.

Context:

Relational and representational attributes

Data type: varchar

Field size: 25

Layout:

Data domain:

Guide for use:

Verification rules:

Collection method: May only include upper- and lower-case alphabetic characters, spaces, hyphens and apostrophes.

Related data:

Administrative attributes

Source document:

Source organisation:

Contact first given name

Administrative status

Reference ID: A0053

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Contact first given name

Name in database: first_name

Other names:

Element type: Data element

Definition: The first given name of the healthcare user's contact.

Context:

Relational and representational attributes

Data type: varchar

Field size: 20

Layout:

Data domain:

Guide for use:

Verification rules:

Collection method: May only include upper- and lower-case alphabetic characters, spaces, hyphens and apostrophes.

Related data:

Administrative attributes

Source document:

Source organisation:

Contact relationship code

Administrative status

Reference ID: A0042

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Contact relationship code

Name in database: relationship_code

Other names:

Element type: Data element

Definition: A code defining the relationship of the designated contact person to the healthcare user.

Context:

Relational and representational attributes

Data type: char

Field size: 2

Layout: NN

Data domain:

01	Mother
02	Father
03	Sister
04	Brother
05	Son
06	Daughter
07	Uncle
08	Aunt
09	Nephew
10	Niece
11	Cousin
12	Grandfather
13	Grandmother
14	Employer
15	Other
16	Spouse

Guide for use:

Verification rules:

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

Contact residential address city/town

Administrative status

Reference ID: A0057

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Contact residential address city/town

Name in database: address_line_4

Other names:

Element type: Data element

Definition: The fourth line of the address of the healthcare user's contact, representing the city, town or region.

Context:

Relational and representational attributes

Data type: varchar **Field size:** 30 **Layout:** Free text

Data domain:

Guide for use:

Verification rules:

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

Contact residential address line 1

Administrative status

Reference ID: A0038

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Contact residential address line 1

Name in database: address_line_1

Other names:

Element type: Data element

Definition: The first line of the address at which the healthcare user's contact lives.

Context:

Relational and representational attributes

Data type: varchar **Field size:** 35 **Layout:** Free text

Data domain:

Guide for use: A contact address is mandatory if a contact name has been entered.

Verification rules:

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

Contact residential address line 2

Administrative status

Reference ID: A0039

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Contact residential address line 2

Name in database: address_line_2

Other names:

Element type: Data element

Definition: The second line of the address at which the healthcare user's contact lives.

Context:

Relational and representational attributes

Data type: varchar **Field size:** 30 **Layout:** Free text

Data domain:

Guide for use:

Verification rules:

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

Contact residential address region/country

Administrative status

Reference ID: A0058

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Contact residential address region/country

Name in database: address_line_5

Other names:

Element type: Data element

Definition: The fifth line of the address of the healthcare user's contact, representing the external region or country.

Context:

Relational and representational attributes

Data type: varchar

Field size: 30

Layout: Free text

Data domain:

Guide for use:

Verification rules:

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

Contact residential address suburb

Administrative status

Reference ID: A0056

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Contact residential address suburb

Name in database: address_line_3

Other names:

Element type: Data element

Definition: The third line of the address of the healthcare user's contact, representing the suburb.

Context:

Relational and representational attributes

Data type: varchar **Field size:** 30 **Layout:** Free text

Data domain:

Guide for use:

Verification rules:

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

Contact second given name

Administrative status

Reference ID: A0054

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Contact second given name

Name in database: second_name

Other names:

Element type: Data element

Definition: The second given name of the healthcare user's contact.

Context:

Relational and representational attributes

Data type: varchar

Field size: 20

Layout:

Data domain:

Guide for use:

Verification rules:

Collection method: May only include upper- and lower-case alphabetic characters, spaces, hyphens and apostrophes.

Related data:

Administrative attributes

Source document:

Source organisation:

Contact third given name

Administrative status

Reference ID: A0055

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Contact third given name

Name in database: third_name

Other names:

Element type: Data element

Definition: The third given name of the healthcare user's contact.

Context:

Relational and representational attributes

Data type: varchar

Field size: 20

Layout:

Data domain:

Guide for use:

Verification rules:

Collection method: May only include upper- and lower-case alphabetic characters, spaces, hyphens and apostrophes.

Related data:

Administrative attributes

Source document:

Source organisation:

Contact work-hours phone

Administrative status

Reference ID: A0040

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Contact work-hours phone

Name in database: business_phone

Other names:

Element type: Data element

Definition: The telephone number most likely to reach the designated contact person during the normal working hours of 8 am to 5 pm, Monday to Friday.

Context:

Relational and representational attributes

Data type: varchar

Field size: 25

Layout: Free text

Data domain:

Guide for use:

Verification rules:

Collection method: STD codes should always be included, and country codes if appropriate.

Related data:

Administrative attributes

Source document:

Source organisation:

Donor summary

Administrative status

Reference ID: A0030

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Donor summary

Name in database: n/a

Other names:

Element type: Data element

Definition: A code denoting which organs, if any, the healthcare user wishes to donate.

Context:

Relational and representational attributes

Data type: char **Field size:** 1 **Layout:** A

Data domain: 'blank' No information

A All organs

B Body

E Eye

H Heart

K Kidney

L Lung

M Marrow

N Bone

S Skin

V Liver

X Not a donor

Guide for use: Any one or combination of valid donor summary codes, as governed by edit rules.

The Donor summary may indicate that the person wishes to donate an organ. However, permission is still required from the next of kin.

Verification rules: A summary of the hcu_donor_tab. This is generally how the information from the hcu_donor_tab displays on screen. All rows with the same NHI number in that table will display in this field.

If a record has 'A', 'B' or 'X', then there should be no other records for that healthcare user; otherwise the healthcare user can have any combination of the other codes (codes 'E' to 'V').

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

Information last updated

Administrative status

Reference ID: A0043

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Information last updated

Name in database: date_last_updated

Other names:

Element type: Derived data element

Definition: The date of last update to a healthcare user's donor summary or contact details.

Context:

Relational and representational attributes

Data type: datetime

Field size:

Layout:

Data domain:

Guide for use:

Verification rules: NZHIS system-generated at time of update.

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

NHI number

Administrative status

Reference ID: A0012

Version: 1.0

Version date: 17-Jul-2003

Identifying and defining attributes

Name: NHI number

Name in database: hcu_id

Other names: Reported as hcu_identifier.

Element type: Data element

Definition: The NHI number is the cornerstone of NZHIS's data collections. It is a unique 7-character identification number assigned to a healthcare user by the National Health Index (NHI) database. NHI numbers uniquely identify healthcare users, and allow linking between different data collections.

Context:

Relational and representational attributes

Mandatory

Data type: char

Field size: 7

Layout: AAANNNN

Data domain:

Guide for use: THE NHI NUMBER

When duplicate records for a healthcare user are merged, one of their NHI numbers will be deemed to be the master (or primary), and the others become event (or secondary) NHI numbers. This does not affect which NHI numbers are used in local systems.

For the analysis of healthcare information relating to a unique individual, the master NHI number should be used.

The Privacy Commissioner considers the NHI number to be personally identifying information (such as name and address) so, if it is linked to clinical information, it must be held securely and the healthcare user's privacy protected.

VALIDATION

The first three characters of an NHI number must be alpha (but not 'I' or 'O'). The 4th to 6th characters must be numeric. The 7th character is a check digit modulus 11.

Verification rules: There is a verification algorithm which ensures that the NHI number is in the correct format and is valid.

Collection method: NHI numbers are often included on patient notes and other patient documentation. New numbers can be allocated by health providers who have direct access to the NHI Register. New NHI numbers are also allocated by HealthPAC for GPs and other primary care providers.

Related data:

Administrative attributes

Source document: <http://www.nzhis.govt.nz/nhi> for more information on the NHI number

Source organisation: NZHIS

Event Summaries

Table name: Event Summaries

Name in database: n/a

Version: 1.0

Version date: 26-May-2003

Definition: Event summary records are generated automatically from the NMDS and posted to this feature of the MWS.

Guide for Use: This is how the information from the GHE database is extracted for display in the MWS. If the Event Summary Suppress flag is 'Y' in the NMDS, this record is suppressed.

For every discharge loaded into the NMDS, a subset of the information is automatically uploaded into the GHE database for use by the MWS. Contains the facility, dates and primary diagnosis for inpatient events and some cancer registrations.

Primary Key:

Business Key:

Relational Rules: Uniquely linked to Healthcare User.

Diagnosis details

Administrative status

Reference ID: A0010

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Diagnosis details

Name in database: n/a

Other names:

Element type: Data element

Definition: Diagnosis details extracted from the NMDS and formatted according to NZHIS criteria.

Context:

Relational and representational attributes

Data type: char

Field size: 70

Layout: Free text

Data domain:

Guide for use: NZHIS-generated text.

Includes the following data from the NMDS, with each data element separated by an underline character:

- Event type (eg, IP for inpatient event)
- Diagnosis type (value A)
- Diagnosis/procedure description
- Clinical code (ICD-9-CM-A or ICD-10-AM).

Presents a summary of the event, detail of diagnosis, or reason for the visit for one (usually primary) diagnosis.

Subject to privacy and confidentiality constraints.

Verification rules:

Collection method: Sourced from the first diagnosis in the NMDS diagnosis_procedure_tab.

Related data:

Administrative attributes

Source document:

Source organisation:

Event end date

Administrative status

Reference ID: A0009

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Event end date

Name in database: event_end_date

Other names:

Element type: Data element

Definition: The date on which a healthcare user is discharged from a facility (ie, the date the healthcare event ended) or the date on which a sectioned mental health patient is discharged to leave.

Context: Hospital inpatient or day patient health event. Used in the NMDS.

Relational and representational attributes

Data type: datetime

Field size:

Layout: CCYYMMDD

Data domain: Valid dates

Guide for use:

Verification rules:

Collection method: Sourced from event_end_date in the NMDS health_event_tab.

Related data:

Administrative attributes

Source document:

Source organisation:

Event start date

Administrative status

Reference ID: A0008

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Event start date

Name in database: event_start_date

Other names:

Element type: Data element

Definition: The admission date on which a healthcare event began.

Context: Hospital inpatient or day patient health event. Used in the NMDS.

Relational and representational attributes

Data type: datetime **Field size:** **Layout:** CCYYMMDD

Data domain: Valid date

Guide for use:

Verification rules:

Collection method: Sourced from event_start_date in the NMDS health_event_tab.

Related data:

Administrative attributes

Source document:

Source organisation:

Facility

Administrative status

Reference ID: A0011

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Facility

Name in database: Health_agency_facility

Other names: Health agency facility

Element type: Data element

Definition: Details of the health provider facility in which the health event took place.

Context:

Relational and representational attributes

Data type: char

Field size: 20

Layout: Free text

Data domain:

Guide for use: Comprises the 4-character Facility code and the first 16 characters of the Facility name, eg, 3211 Auckland.

Verification rules:

Collection method: Sourced from facility_code in the NMDS health_event_tab.

Related data:

Administrative attributes

Source document:

Source organisation:

NHI number

Administrative status

Reference ID: A0012

Version: 1.0

Version date: 17-Jul-2003

Identifying and defining attributes

Name: NHI number

Name in database: hcu_id

Other names: Reported as hcu_identifier.

Element type: Data element

Definition: The NHI number is the cornerstone of NZHIS's data collections. It is a unique 7-character identification number assigned to a healthcare user by the National Health Index (NHI) database. NHI numbers uniquely identify healthcare users, and allow linking between different data collections.

Context:

Relational and representational attributes

Mandatory

Data type: char

Field size: 7

Layout: AAANNNN

Data domain:

Guide for use: THE NHI NUMBER

When duplicate records for a healthcare user are merged, one of their NHI numbers will be deemed to be the master (or primary), and the others become event (or secondary) NHI numbers. This does not affect which NHI numbers are used in local systems.

For the analysis of healthcare information relating to a unique individual, the master NHI number should be used.

The Privacy Commissioner considers the NHI number to be personally identifying information (such as name and address) so, if it is linked to clinical information, it must be held securely and the healthcare user's privacy protected.

VALIDATION

The first three characters of an NHI number must be alpha (but not 'I' or 'O'). The 4th to 6th characters must be numeric. The 7th character is a check digit modulus 11.

Verification rules: There is a verification algorithm which ensures that the NHI number is in the correct format and is valid.

Collection method: NHI numbers are often included on patient notes and other patient documentation. New numbers can be allocated by health providers who have direct access to the NHI Register. New NHI numbers are also allocated by HealthPAC for GPs and other primary care providers.

Related data:

Administrative attributes

Source document: <http://www.nzhis.govt.nz/nhi> for more information on the NHI number

Source organisation: NZHIS

Medical Warnings table

Table name: Medical Warnings table

Name in database: medical_warning_tab

Version: 1.0

Version date: 26-May-2003

Definition: Medical Warnings comprise two types of information:

- Adverse Medical Reactions (AMR), which provide a mechanism for alerting healthcare providers to a range of potential danger and/or warning situations for a healthcare user, concerned primarily with drugs and medicines.
- Significant Medical Conditions (SMC) - usually non-drug-related - for a healthcare user that may exist or may need to be brought to the practitioner's attention (eg, diabetes, chronic dialysis, cancer chemotherapy, renal failure, allergies).

Guide for Use: Originally loaded from the NMPI, so some information was migrated that is neither AMR nor SMC, eg, historical notes.

Data is entered by hospitals and by CARM (who receive information from doctors and some hospitals).

Contains historical information. Not consistently maintained.

Primary Key:

Business Key:

Relational Rules: Uniquely linked to Healthcare User.

Medical warning code

Administrative status

Reference ID: A0004

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: Medical warning code

Name in database: medical_warning_code

Other names:

Element type: Data element

Definition: A code representing the adverse reaction or significant medical condition.

Context:

Relational and representational attributes

Data type: char

Field size: 6

Layout: Free text

Data domain:

Guide for use: Not used by NZHIS but passed to CARM as additional information.

This field contains a variety of codes, some from local systems.

Verification rules: Not validated by NZHIS. Should be validated by the healthcare provider system and its description included in the MW text description.

If present, there must also be a MW coding system code.

Collection method: Can contain ICD-9-CM-A codes or codes from other systems.

Related data:

Administrative attributes

Source document:

Source organisation:

MW coding system ID

Administrative status

Reference ID: A0003

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: MW coding system ID

Name in database: clinical_system_code

Other names:

Element type: Data element

Definition: A code identifying the MW coding system used for providing the MW code.

Context:

Relational and representational attributes

Data type: char **Field size:** 2 **Layout:** NN

Data domain:

blank	No coding system being used
01	ICD-9
02	ICD-9-CM
03	RCC5 (Read)
04	ICPC
05	Continuum AMR codes
06	ICD-9-CM-A

Guide for use: No code table is held for the AMR codes.

Blank may also display as '00'.

This code table is a subset of the Clinical Coding System code table used by the NMDS. ICD-10-AM 1st and 2nd Editions are not used in the MWS.

Verification rules: If present, there must also be a Medical warning code.

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

MW date of CARM approval

Administrative status

Reference ID: A0007

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: MW date of CARM approval

Name in database: marc_approval_date

Other names:

Element type: Data element

Definition: The date on which the MW was upgraded to a danger by the Centre for Adverse Reactions Monitoring (CARM).

Context:

Relational and representational attributes

Data type: datetime

Field size:

Layout: CCYYMMDD

Data domain:

Guide for use: Only applies to reactions that CARM have evaluated and deemed life-threatening.

Details of patients with adverse reactions should also be sent to CARM (Centre for Adverse Reactions Monitoring, University of Otago Medical School, PO Box 913, Dunedin). A reply-paid card (No.H1574) available from CARM can be used for this purpose.

Verification rules:

Collection method: Security protected. Maintained and updated only by CARM.

Related data:

Administrative attributes

Source document:

Source organisation:

MW date of onset

Administrative status

Reference ID: A0002

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: MW date of onset

Name in database: date_of_onset

Other names:

Element type: Data element

Definition: The date on which the healthcare user first experienced the adverse reaction or significant medical condition for which there is a medical warning.

Context:

Relational and representational attributes

Mandatory

Data type: datetime

Field size:

Layout: CCYYMMDD

Data domain: Valid dates

Partial dates are permissible. At a minimum the century and year must be supplied. If day is provided but month is omitted then the day will not be recorded. Incomplete dates are stored as 'ccyy0101' or 'ccyymm01' and a partial date flag associated with the date is set to the appropriate value.

Guide for use: If a partial date is supplied, the date should be updated as soon as possible after accurate information becomes available.

Verification rules: Mandatory.

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

MW details last updated

Administrative status

Reference ID: A0059

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: MW details last updated

Name in database: date_last_updated

Other names:

Element type: Data element

Definition: The date of last update to this MW record for the healthcare user.

Context:

Relational and representational attributes

Data type: datetime

Field size:

Layout:

Data domain:

Guide for use:

Verification rules: Generated by the NZHIS system at time of update.

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

MW doctor number

Administrative status

Reference ID: A0006

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: MW doctor number

Name in database: doctor_id

Other names:

Element type: Data element

Definition: Identification number of the healthcare professional responsible for the most recent change to an MW. Not used by NZHIS but passed to CARM as additional information.

Context:

Relational and representational attributes

Data type: char

Field size: 5

Layout: Free text

Data domain:

Guide for use: Historical information. Some of this information has been loaded up from old systems, and would have previously been validated against the Doctor database, which was hospital-specific.

Verification rules: Optional. Not validated by NZHIS at time of entry.

Suggested codes are the Continuum doctor numbers or the Register of Medical Practitioners doctor ID numbers.

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

MW Facility code

Administrative status

Reference ID: A0143

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: MW Facility code

Name in database: facility_code

Other names:

Element type: Data element

Definition: The facility reporting the medical warning.

Context:

Relational and representational attributes

Data type: char

Field size: 4

Layout:

Data domain:

Guide for use:

Verification rules: Optional.

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

MW severity code

Administrative status

Reference ID: A0001

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: MW severity code

Name in database: severity_code

Other names:

Element type: Data element

Definition: A code defining the level of severity of the medical warning for all AMRs and SMCs.

Context:

Relational and representational attributes

Data type: char **Field size:** 1 **Layout:** A

Data domain: D Danger
W Warning
R Other Warning (to retain historical 'memo' information from the former Continuum NMPI system)

Guide for use: Most data entered as 'W' (Warning). Only CARM can enter a 'D' (Danger) code.

'R' was used for migrated data that is not Medical Warning information.

Verification rules:

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

MW text description

Administrative status

Reference ID: A0005

Version: 1.0

Version date: 01-Jan-2003

Identifying and defining attributes

Name: MW text description

Name in database: description

Other names:

Element type: Data element

Definition: Description of the adverse reaction or significant medical condition.

Context:

Relational and representational attributes

Mandatory

Data type: varchar **Field size:** 70 **Layout:** Free text

Data domain:

Guide for use: Contains information about drugs causing adverse reactions, or text relating to allergies and significant medical conditions.

The field may contain notes or memos loaded from the NMPI.

Verification rules: Not validated by NZHIS at time of entry, but may be qualified by CARM.

Collection method: In the case of an adverse reaction, identify the drug and provide a concise statement describing the type of reaction, eg, Amoxicillin - headaches/angioedema.

Related data:

Administrative attributes

Source document:

Source organisation:

NHI number

Administrative status

Reference ID: A0012

Version: 1.0

Version date: 17-Jul-2003

Identifying and defining attributes

Name: NHI number

Name in database: hcu_id

Other names: Reported as hcu_identifier.

Element type: Data element

Definition: The NHI number is the cornerstone of NZHIS's data collections. It is a unique 7-character identification number assigned to a healthcare user by the National Health Index (NHI) database. NHI numbers uniquely identify healthcare users, and allow linking between different data collections.

Context:

Relational and representational attributes

Mandatory

Data type: char

Field size: 7

Layout: AAANNNN

Data domain:

Guide for use: THE NHI NUMBER

When duplicate records for a healthcare user are merged, one of their NHI numbers will be deemed to be the master (or primary), and the others become event (or secondary) NHI numbers. This does not affect which NHI numbers are used in local systems.

For the analysis of healthcare information relating to a unique individual, the master NHI number should be used.

The Privacy Commissioner considers the NHI number to be personally identifying information (such as name and address) so, if it is linked to clinical information, it must be held securely and the healthcare user's privacy protected.

VALIDATION

The first three characters of an NHI number must be alpha (but not 'I' or 'O'). The 4th to 6th characters must be numeric. The 7th character is a check digit modulus 11.

Verification rules: There is a verification algorithm which ensures that the NHI number is in the correct format and is valid.

Collection method: NHI numbers are often included on patient notes and other patient documentation. New numbers can be allocated by health providers who have direct access to the NHI Register. New NHI numbers are also allocated by HealthPAC for GPs and other primary care providers.

Related data:

Administrative attributes

Source document: <http://www.nzhis.govt.nz/nhi> for more information on the NHI number

Source organisation: NZHIS

Partial onset date flag

Administrative status

Reference ID:

Version: 1.0

Version date: 07-Aug-2003

Identifying and defining attributes

Name: Partial onset date flag

Name in database: partial_onset_date

Other names:

Element type: DATA ELEMENT

Definition: Indicates whether the MW date of onset stored is a partial date.

Context:

Relational and representational attributes

Data type: char **Field size:** 1 **Layout:** A

Data domain: Y only the year is supplied
M the month and year were supplied

Guide for use: A partial date flag, set automatically.

Verification rules:

Collection method:

Related data: MW date of onset

Administrative attributes

Source document:

Source organisation:

Warning entry time

Administrative status

Reference ID:

Version: 1.0

Version date: 07-Aug-2003

Identifying and defining attributes

Name: Warning entry time

Name in database: warning_entry_time

Other names:

Element type: DATA ELEMENT

Definition: The time at which the warning is saved into the database.

Context:

Relational and representational attributes

Data type: datetime **Field size:** **Layout:**

Data domain:

Guide for use: Forms part of the primary key.

Verification rules: System-generated.

Collection method:

Related data:

Administrative attributes

Source document:

Source organisation:

Appendix A: Data Dictionary Template

Introduction	This appendix explains how data element attributes are organised in the data dictionary template.
Order of elements	Within the dictionary, elements are organised by table, and then alphabetically. An alphabetical index at the back of the data dictionary is provided to assist the user in finding specific elements.
Template:	
Administrative status	The operational status (eg, CURRENT, SUPERSEDED) of the data element. No SUPERSEDED data elements will be included in the Dictionaries.
Reference ID	A code that uniquely identifies the data element. If the data element is used in more than one collection, it should retain its Reference ID wherever it appears.
Version number	<p>A version number for each data element. A new version number is allocated to a data element/concept when changes have been made to one or more of the following attributes of the definition:</p> <ul style="list-style-type: none"> – name – definition – data domain, eg, adding a new value to the field. <p>Elements with frequently updated code tables, such as the Facility code table, will not be assigned a new version for changes to data domain.</p>
Version date	The date the new version number was assigned.
Identifying and defining attributes	
Name	A single or multi-word designation assigned to a data element. This appears in the heading for each unique data definition in the Dictionaries. Previous names for the data element are included in the Guide for Use section.
Data element type	<p>DATA ELEMENT—a unit of data for which the definition, identification, representation and permissible values are specified by means of a set of attributes.</p> <p>DERIVED DATA ELEMENT—a data element whose values are derived by calculation from the values of other data elements.</p> <p>COMPOSITE DATA ELEMENT—a data element whose values represent a grouping of the values of other data elements in a specified order.</p>
Definition	A statement that expresses the essential nature of a data element and its differentiation from all other data elements.
Context	A designation or description of the application environment or discipline in which a name is applied or from which it originates. This attribute may also include the justification for collecting the items and uses of the information.

Relational and representational attributes

Data type	The type of field in which a data element is held. For example, character, integer, or numeric.
Field size	The maximum number of storage units (of the corresponding data type) to represent the data element value. Field size does not generally include characters used to mark logical separations of values, eg, commas, hyphens or slashes.
Layout	The representational layout of characters in data element values expressed by a character string representation. For example: <ul style="list-style-type: none"> - 'CCYYMMDD' for calendar date - 'N' for a one-digit numeric field - 'A' for a one-character field - 'X' for a field that can hold either a character or a digit, and - '\$\$\$,\$\$\$,\$\$\$' for data elements about expenditure.
Data domain	The permissible values for the data element. The set of values can be listed or specified by referring to a code table or code tables, for example, ICD-10-AM 2nd Edition.
Guide for use	Additional comments or advice on the interpretation or application of the data element (this attribute has no direct counterpart in the ISO/IEC Standard 11179 but has been included to assist in clarification of issues relating to the classification of data elements). Includes historical information, advice regarding data quality, and alternative names for this data element.
Verification rules	The rules and/or instructions applied for validating and/or verifying elements, in addition to the formal edits.
Collection method	Comments and advice concerning the capture of data for the particular data element, including guidelines on the design of questions for use in collecting information, and treatment of 'not stated' or non-response (this attribute is not specified in the ISO/IEC Standard 11179 but has been added to cover important issues about the actual collection of data).
Related data	A reference between the data element and any related data element in the Dictionary, including the type of this relationship. Examples include: 'has been superseded by the data element...', 'is calculated using the data element...', and 'supplements the data element...'.

Administrative attributes

Source document	The document from which definitional or representational attributes originate.
Source organisation	The organisation responsible for the source document and/or the development of the data definition (this attribute is not specified in the ISO/IEC Standard 11179 but has been added for completeness). The source organisation is not necessarily the organisation responsible for the ongoing development/maintenance of the data element definition. An example of a source organisation is the National Data Policy Group (NDPG).

Appendix B: Glossary

Note: See *Appendix B: Glossary* in separate document.

Appendix C: Logical Groups of Elements

Contact Information

Contact after-hours phone
Contact family name
Contact first given name
Contact preferred name indicator
Contact relationship code
Contact residential address city/town
Contact residential address line 1
Contact residential address line 2
Contact residential address region/country
Contact residential address suburb
Contact second given name
Contact third given name
Contact work-hours phone

Donor Information

Donor summary

Event Summaries

Diagnosis details
Event end date
Event start date
Facility

Medical Warnings

Medical warning code
MW coding system code
MW date of CARM approval
MW date of onset
MW details last updated
MW doctor number
MW facility code
MW severity code
MW text description

Appendix D: Code Table Index

Code table	Location
AMR Severity code table	See <i>MW severity code</i> on page 28.
Contact Relationship code table	See <i>Contact relationship code</i> on page 4.
Donor Summary code table	See <i>Donor summary</i> on page 13.
Facility code table	See the NZHIS web site.
MW Coding System code table	See <i>MW coding system ID</i> on page 22.

Code tables on website

For code tables on the NZHIS web site go to <http://www.nzhis.govt.nz/documentation/codetables.html>. For further information or a printed copy of the code table, contact the Publications Officer. Contact details are listed at the front of this dictionary.

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