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New Zealand Health Information Service

**HEPATITIS B  
SCREENING PROGRAMME**

**DATA DICTIONARY**

**Version 1.1  
October 2003**



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Published by New Zealand Health Information Service

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## Introduction

<b>Basis</b>	This revised dictionary builds on the information that was previously published each year in the Hepatitis B Screening Programme (Hep B) Data Dictionary.
<b>Objectives</b>	<p>The objectives of the New Zealand Health Information Service (NZHIS) Data Dictionaries are to:</p> <ul style="list-style-type: none"><li>• describe the information available within the National Collections</li><li>• promote uniformity, availability and consistency across the National Collections</li><li>• support the use of nationally agreed protocols and standards wherever possible</li><li>• promote national standard definitions and make them available to users.</li></ul> <p>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.</p>
<b>Audiences</b>	The target audiences for NZHIS Data Dictionaries are data providers, software developers, and data users.
<b>New format</b>	<p>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 <i>Specification and Standardization of Data Elements</i>—the international standard for defining data elements issued by the International Organization for Standardization and the International Electrotechnical Commission.</p> <p>The format is described in detail in Appendix A of this dictionary.</p>
<b>Changes to dictionary format</b>	<p>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.</p> <p>In summary, the changes to the data dictionaries include:</p> <ul style="list-style-type: none"><li>• standardisation of the element names so that, for instance, a healthcare user's NHI number is referred to as NHI number in all collections</li><li>• elements are listed alphabetically within each table, and the tables are organised alphabetically</li><li>• each table is described</li><li>• verification rules, historical information, and data quality information are included</li><li>• alternative names for the elements are listed</li><li>• information about how the data is collected is given</li><li>• related data, and references to source documents and source organisations are included</li><li>• an alphabetical index is included</li><li>• code tables are included with the element, or a reference given to the NZHIS web site (for large or dynamic code tables).</li></ul>

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## Hepatitis B Screening Programme (Hep B)

<b>Scope</b>	<p><b>Purpose</b></p> <p>The Hepatitis B data warehouse (Hep B) was established for the Hepatitis B Screening Programme pilot to support policy formation, performance monitoring, and review. The pilot has been conducted for three years with two primary care providers.</p> <p><b>Content</b></p> <p>Hep B contains primary care and secondary care information for the Hepatitis B Screening Programme pilot.</p>
<b>Start date</b>	August 2000.
<b>Guide for use</b>	The Hepatitis B Screening Programme is a pilot project with only limited data, and is not available for general use.
<b>Collection methods – guide for providers</b>	<p>The primary care information is collected by two providers: Auckland Healthcare (also known as “A+”) and the Hepatitis B Foundation.</p> <p>The secondary care information is collected by specialists whose patients have been referred by primary care providers.</p>
<b>Frequency of updates</b>	Primary care information is provided monthly. Secondary care information is provided quarterly.
<b>Security of data</b>	<p>Access to data is currently limited to authorised NZHIS staff for maintenance purposes.</p> <p>Quarterly data extracts are sent to Uniservices, a third-party organisation contracted to produce the quarterly reports for the Ministry of Health on a number of specified key indicators.</p>
<b>Privacy issues</b>	The quarterly extracts sent to Uniservices contain encrypted NHI numbers.
<b>National reports and publications</b>	None.
<b>Data provision</b>	None.

## Laboratory Test Result table

<b>Table name:</b>	Laboratory Test Result table		
<b>Name in database:</b>	laboratory_test_result_tab	<b>Version:</b> 1.0	<b>Version date:</b> 31-Jan-2003
<b>Definition:</b>	Details of a test carried out on a screening programme user.		
<b>Guide for Use:</b>	This may occur at different stages in the programme (eg, initial test or subsequent surveillance) and may be for different purposes (eg, HBeAg or ALT test).		
	Also includes the result for a test after the blood sample has been analysed by a Laboratory.		
	After a Programme Enrolment record (with any contract number) has been loaded, any number of Laboratory Test Results, Primary Referral to Secondary Care, or Vaccination Detail records can be loaded.		
	The screening programme user must exist in the database but does not need to have been created under the same contract.		
<b>Primary Key:</b>	Laboratory test type Test stage code Encrypted NHI number Test completed date		
<b>Business Key:</b>			
<b>Relational Rules:</b>	Contract Number (from Contract)		

## Agency code

### Administrative status

<b>Reference ID:</b>	A0138-4	<b>Version:</b> 1.0	<b>Version date:</b> 01-Jan-2003
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### Identifying and defining attributes

<b>Name:</b>	Agency code
<b>Name in database:</b>	agency_code
<b>Other names:</b>	Health agency code, DHB
<b>Element type:</b>	Data element
<b>Definition:</b>	A code that uniquely identifies an agency. An agency is an organisation, institution or group of institutions that contracts directly with the principal health service purchaser to deliver healthcare services to the community.
<b>Context:</b>	

### Relational and representational attributes

**Mandatory**

<b>Data type:</b>	char	<b>Field size:</b> 4	<b>Layout:</b> XXXX
<b>Data domain:</b>	See the Agency code table on the NZHIS web site at <a href="http://www.nzhis.govt.nz/documentation/codetables.html">http://www.nzhis.govt.nz/documentation/codetables.html</a> . For further information or a printed copy of the code table, contact the Publications Officer. Contact details are given at the front of this dictionary.		
<b>Guide for use:</b>	Historically, also known as CHE (Crown Health Enterprise), HHS (Hospitals and Health Services) and AHB (Area Health Board).		
<b>Verification rules:</b>	Must be a valid code in the code table.		
<b>Collection method:</b>	The code table is continually updated by NZHIS as hospitals open and close. See the NZHIS web site for the most recent version.		
<b>Related data:</b>			

### Administrative attributes

<b>Source document:</b>	
<b>Source organisation:</b>	NZHIS

## Blood sample taken date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Blood sample taken date

**Name in database:** blood\_sample\_taken\_date

**Other names:**

**Element type:** Data element

**Definition:** Date blood sample taken from patient for surveillance testing.

**Context:**

### Relational and representational attributes

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after the Programme entered date and on or before the Programme exit date.

Partial dates not allowed.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Contract number

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Contract number

**Name in database:** contract\_number

**Other names:**

**Element type:** Data element

**Definition:** The contract number is specific to the Hepatitis B programme and unique to each provider.

**Context:**

### Relational and representational attributes

**Data type:** char **Field size:** 6 **Layout:**

**Data domain:** As agreed with Providers.

**Guide for use:** Used as a reference when claiming.

**Verification rules:** Mandatory. Must be a valid code in the code table.

**Collection method:** Supplied by provider on consent form.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Encrypted NHI number

### Administrative status

**Reference ID:** A0319-5

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Encrypted NHI number

**Name in database:** encrypted\_hcu\_id

**Other names:** See other names for the NHI number under 'Guide for use' below.

**Element type:** Derived data element

**Definition:** The NHI number in encrypted form.

**Context:** 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. The NHI number uniquely identifies healthcare users, and allows linking between different data collections. It is encrypted to ensure privacy of individual records.

### Relational and representational attributes

**Data type:** char

**Field size:** 11

**Layout:**

**Data domain:** System-generated

**Guide for use:** The NHI number is also known as National Health Index, HCU identifier, NHI, HCU, HCU Number, Healthcare User identifier, HCU identification number, NMPI number, Hospital Number, Patient 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. Please contact an NZHIS information analyst for further information on how to obtain the master encrypted NHI number if you are performing your own data extraction.

The Privacy Commissioner considers the NHI number to be personally identifying information (like name and address) so, if it is linked to clinical information, it must be held securely and the healthcare user's privacy protected. The Encrypted NHI number is not considered personally identifying.

NZHIS will return data containing unencrypted NHI numbers to providers who have sent it in. Information with unencrypted NHI numbers may be disclosed to researchers on a case-by-case basis.

**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.

**Encryption:** The NHI number is encrypted using a one-way encryption algorithm. The aim is to provide an encrypted number that can be sent across public (unsecured) networks.

**Verification rules:** Must be registered on the NHI database before the NHI number can be used in the Hepatitis B Screening Programme.

**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/>

**Source organisation:** NZHIS

## Patient given result date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Patient given result date

**Name in database:** patient\_given\_result\_date

**Other names:**

**Element type:** Data element

**Definition:** The date the result was given to the patient (or the date of the first attempt to communicate results).

**Context:**

### Relational and representational attributes

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after Programme entered date, Blood sample taken date, Test performed date, and Laboratory test date. Must be on or before the Programme exit date.

Partial dates not allowed.

Mandatory if Patient given result indicator is 'Y'.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Patient given result indicator

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Patient given result indicator

**Name in database:** patient\_given\_result\_ind

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether or not the result has been given to the patient.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Result

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Result

**Name in database:** result

**Other names:**

**Element type:** Data element

**Definition:** The laboratory test result analysed by the provider to determine the next action and/or flag.

**Context:**

### Relational and representational attributes

**Data type:** varchar

**Field size:** 50

**Layout:** Free text

**Data domain:**

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Test completed date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Test completed date

**Name in database:** test\_completed\_date

**Other names:**

**Element type:** Data element

**Definition:** The date of completion of initial test, subsequent surveillance, or followup surveillance test.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after Date of birth, Test performed date, and Programme entered date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Test performed date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Test performed date

**Name in database:** test\_performed\_date

**Other names:**

**Element type:** Data element

**Definition:** The date that a test was performed.

**Context:**

### Relational and representational attributes

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:** This is usually used by secondary care providers instead of the Blood sample taken date, when the tests do not involve taking a blood sample.

**Verification rules:** Must be on or after the Programme entered date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Test stage code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Test stage code

**Name in database:** test\_stage\_code

**Other names:**

**Element type:** Data element

**Definition:** A coded value which represents the stage in the screening programme at which a test was carried out.

**Context:**

### Relational and representational attributes

**Mandatory**

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

**Data domain:**

I	Initial screening
F	First carrier surveillance test
T	Subsequent carrier surveillance testing
H	HCC follow up testing
C	CH follow up testing
S	Secondary care

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Test type code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Test type code

**Name in database:** laboratory\_test\_type

**Other names:**

**Element type:** Data element

**Definition:** A coded value which represents the type of test.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** char

**Field size:** 3

**Layout:** AAA

**Data domain:**

Aby	Antibody Test
AFP	AFP Test
ALT	ALT Test
DNA	HBV DNA Test
HBe	HBeAg Test
HBs	HBsAg Test
HDV	Anti HDV Test
Bio	Biopsy
Ult	Ultrasound Test
CTS	CT Scan
GGT	Gamma Glutamyltransferase

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Primary Care Referral table

**Table name:** Primary Care Referral table

**Name in database:** primary\_referral\_tab

**Version:** 1.0

**Version date:** 31-Jan-2003

**Definition:** The referral of a screening programme user to secondary care as a result of a condition identified by a laboratory result following a test.

**Guide for Use:** Condition code is the main reason for referral. Condition code other is the other reason for referral.

After a Programme Enrolment record (with any contract number) has been loaded, any number of Laboratory Test Results, Primary Referral to Secondary Care, or Vaccination Detail records can be loaded.

Primary Referral records that refer to the Laboratory Test Result that caused the referral should be loaded after that Laboratory Test Result.

The screening programme user must exist in the database but does not need to have been created under the same contract.

**Primary Key:** Encrypted NHI number  
Primary referral date

**Business Key:**

**Relational Rules:**

## Condition code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Condition code

**Name in database:** condition\_code

**Other names:**

**Element type:** Data element

**Definition:** The condition with which a screening programme user may be afflicted.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** varchar **Field size:** 3 **Layout:** AAX

**Data domain:** CH Chronic Hepatitis  
HCC Hepatocellular Carcinoma

**Guide for use:** Used as the reason for secondary care referral.

**Verification rules:** Must have a different value from Condition code other.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Condition code other

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Condition code other

**Name in database:** condition\_code\_other

**Other names:**

**Element type:** Data element

**Definition:** An additional condition with which a screening programme user may be afflicted.

**Context:**

### Relational and representational attributes

**Data type:** varchar **Field size:** 3 **Layout:** AAX

**Data domain:** CH Chronic Hepatitis  
HCC Hepatocellular Carcinoma

**Guide for use:**

**Verification rules:** Optional.

Must have a different value from Condition code.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Contract number

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Contract number

**Name in database:** contract\_number

**Other names:**

**Element type:** Data element

**Definition:** The contract number is specific to the Hepatitis B programme and unique to each provider.

**Context:**

### Relational and representational attributes

**Data type:** char **Field size:** 6 **Layout:**

**Data domain:** As agreed with Providers.

**Guide for use:** Used as a reference when claiming.

**Verification rules:** Mandatory. Must be a valid code in the code table.

**Collection method:** Supplied by provider on consent form.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Facility code

### Administrative status

**Reference ID:** A0143-4

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Facility code

**Name in database:** facility\_code

**Other names:** Health agency facility code, Hospital, HAF code, HAFC

**Element type:** Data element

**Definition:** A code that uniquely identifies a healthcare facility.

A healthcare facility is a place, which may be a permanent, temporary, or mobile structure, that healthcare users attend or are resident in for the primary purpose of receiving healthcare or disability support services. This definition excludes supervised hostels, halfway houses, staff residences, and rest homes where the rest home is the patient's usual place of residence.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** char

**Field size:** 4

**Layout:** NNNN

**Data domain:** See the Facility code table on the NZHIS web site at <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 given at the front of this dictionary.

**Guide for use:**

**Verification rules:** Must be a valid code in the code table.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Laboratory test date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Laboratory test date

**Name in database:** laboratory\_test\_date

**Other names:**

**Element type:** Data element

**Definition:** The date of the laboratory test.

**Context:**

### Relational and representational attributes

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after the Programme entered date and on or before the Programme exit date.

Partial dates not allowed.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Primary referral to secondary care date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Primary referral to secondary care date

**Name in database:** primary\_referral\_date

**Other names:**

**Element type:** Data element

**Definition:** The date the patient was referred to a secondary care provider for Chronic Hepatitis (CH) or Hepatocellular Carcinoma (HCC).

**Context:**

### Relational and representational attributes

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after the Programme entered date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Test stage code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Test stage code

**Name in database:** test\_stage\_code

**Other names:**

**Element type:** Data element

**Definition:** A coded value which represents the stage in the screening programme at which a test was carried out.

**Context:**

### Relational and representational attributes

**Mandatory**

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

**Data domain:**

I	Initial screening
F	First carrier surveillance test
T	Subsequent carrier surveillance testing
H	HCC follow up testing
C	CH follow up testing
S	Secondary care

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Test type code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Test type code

**Name in database:** laboratory\_test\_type

**Other names:**

**Element type:** Data element

**Definition:** A coded value which represents the type of test.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** char **Field size:** 3 **Layout:** AAA

**Data domain:**

Aby	Antibody Test
AFP	AFP Test
ALT	ALT Test
DNA	HBV DNA Test
HBe	HBeAg Test
HBs	HBsAg Test
HDV	Anti HDV Test
Bio	Biopsy
Ult	Ultrasound Test
CTS	CT Scan
GGT	Gamma Glutamyltransferase

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Programme Enrolment table

**Table name:** Programme Enrolment table

**Name in database:** programme\_enrolment\_tab **Version:** 1.0 **Version date:** 31-Jan-2003

**Definition:** The details of a persons enrolment into the Hepatitis B Screening Programme.

**Guide for Use:** Encrypted NHI number (from the Healthcare User table) is the identifier of the person giving the contact details.

The first record loaded for a screening programme user is always a Programme Enrolment record.

If there are two Programme Enrolment records from different providers with the same primary key, then only the user details from the oldest are inserted.

**Primary Key:** Encrypted NHI number  
Programme entered date

**Business Key:**

**Relational Rules:**

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## Age on programme entry

### Administrative status

**Reference ID:** **Version:** 1.0 **Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Age on programme entry

**Name in database:** age\_on\_programme\_entry

**Other names:**

**Element type:** Derived data element

**Definition:** The age of the screening programme user when they enter the Hepatitis B Screening Programme.

**Context:**

### Relational and representational attributes

**Data type:** number **Field size:** 3 **Layout:** NNN

**Data domain:**

**Guide for use:**

**Verification rules:** Calculated based on the difference between the screening programme user's date of birth and the Programme entered date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Contract number

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Contract number

**Name in database:** contract\_number

**Other names:**

**Element type:** Data element

**Definition:** The contract number is specific to the Hepatitis B programme and unique to each provider.

**Context:**

### Relational and representational attributes

**Data type:** char **Field size:** 6 **Layout:**

**Data domain:** As agreed with Providers.

**Guide for use:** Used as a reference when claiming.

**Verification rules:** Mandatory. Must be a valid code in the code table.

**Collection method:** Supplied by provider on consent form.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Eligible indicator

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Eligible indicator

**Name in database:** eligible\_indicator

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether the screening programme user is in the target population or has been contacted by contact tracing.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:** Set to 'Y' if the screening programme user has the Target population indicator set to 'Y' or if the Initial contact type is Contact tracing.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## In target area indicator

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** In target area indicator

**Name in database:** in\_target\_area\_indicator

**Other names:**

**Element type:** Derived data element

**Definition:** Indicates whether the screening programme user resides in a targeted area.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:** Set to 'Y' if the area unit associated with the screening programme user's Domicile code is one of the area units belonging to one of the contracted agencies.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Initial contact type code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Initial contact type code

**Name in database:** initial\_contact\_type

**Other names:**

**Element type:** Data element

**Definition:** A coded value which represents how an screening programme user was initially contacted and informed of the screening programme.

**Context:**

### Relational and representational attributes

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

**Data domain:**

- 1 Community promotion
- 2 Contact tracing
- 3 Invitation - letter from GP
- 4 Invitation - asked at doctors
- 5 Invitation - other

**Guide for use:** As specified by a screening programme user at the point of entering the screening programme.

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Invitation source code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Invitation source code

**Name in database:** invitation\_source\_code

**Other names:**

**Element type:** Data element

**Definition:** Where the name was selected from to go on the invitation list.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 3

**Layout:** AAA

**Data domain:**

Ele	Electoral roll
GPR	GP register
Mao	Maori roll
Mar	Marae list
Opp	Opportunistic

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Nominator's encrypted NHI number

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 24-Jun-2003

### Identifying and defining attributes

**Name:** Nominator's encrypted NHI number

**Name in database:** referrer\_encrypted\_hcu\_id

**Other names:** Referrer encrypted HCU identifier, Referrer encrypted NHI, etc. See other names for the NHI number under 'Guide for use' below.

**Element type:** Derived data element

**Definition:** The NHI number in encrypted form.

**Context:** The encrypted NHI number of the person that nominated the screening programme user as a contact.

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. The NHI number uniquely identifies healthcare users, and allows linking between different data collections. It is encrypted to ensure privacy of individual records.

### Relational and representational attributes

**Data type:** char

**Field size:** 11

**Layout:**

**Data domain:** System-generated

**Guide for use:** THE NHI NUMBER

The NHI number is also known as National Health Index, HCU identifier, NHI, HCU, HCU Number, Healthcare User identifier, HCU identification number, NMPI number, Hospital Number, Patient 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. Please contact an NZHIS information analyst for further information on how to obtain the master encrypted NHI number if you are performing your own data extraction.

The Privacy Commissioner considers the NHI number to be personally identifying information (like name and address) so, if it is linked to clinical information, it must be held securely and the healthcare user's privacy protected. The Encrypted NHI number is not considered personally identifying.

NZHIS will return data containing unencrypted NHI numbers to providers who have sent it in. Information with unencrypted NHI numbers may be disclosed to researchers on a case-by-case basis.

#### 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.

#### ENCRYPTION

The NHI number is encrypted using a one-way encryption algorithm. The aim is to provide an encrypted number that can be sent across public (unsecured) networks.

**Verification rules:** Must be registered on the NHI database before the NHI number can be used in the Hepatitis B Screening Programme.

**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/>

**Source organisation:** NZHIS

## Programme entered date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Programme entered date

**Name in database:** programme\_entered\_date

**Other names:** Date of programme enrolment

**Element type:** Data element

**Definition:** The date the patient entered the screening program.

**Context:**

### Relational and representational attributes

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:** This is usually the same as the date the patient gave consent to be part of the screening programme.

**Verification rules:** Partial dates not allowed.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Target population indicator

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Target population indicator

**Name in database:** target\_population\_indicator

**Other names:**

**Element type:** Derived data element

**Definition:** Indicates whether the screening programme user is in the target ethnicity and age group and resides in the target area.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:** Target population is set if the person is in the target ethnicity and age group and the In target area indicator is set to 'Y'. Target areas are compared to Screening programme users' Domicile codes.

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Programme Exit table

<b>Table name:</b>	Programme Exit table		
<b>Name in database:</b>	programme_exit_tab	<b>Version:</b> 1.0	<b>Version date:</b> 31-Jan-2003
<b>Definition:</b>	The details of a screening programme user's exit from the Hepatitis B Screening Programme.		
<b>Guide for Use:</b>	The screening programme user must exist in the database but does not need to have been created under the same contract.		
<b>Primary Key:</b>	Encrypted NHI number Exit from programme date		
<b>Business Key:</b>			
<b>Relational Rules:</b>			

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## Agency code

### Administrative status

<b>Reference ID:</b>	A0138-4	<b>Version:</b> 1.0	<b>Version date:</b> 01-Jan-2003
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### Identifying and defining attributes

<b>Name:</b>	Agency code
<b>Name in database:</b>	agency_code
<b>Other names:</b>	Health agency code, DHB
<b>Element type:</b>	Data element
<b>Definition:</b>	A code that uniquely identifies an agency. An agency is an organisation, institution or group of institutions that contracts directly with the principal health service purchaser to deliver healthcare services to the community.
<b>Context:</b>	

### Relational and representational attributes

**Mandatory**

<b>Data type:</b>	char	<b>Field size:</b> 4	<b>Layout:</b> XXXX
<b>Data domain:</b>	See the Agency code table on the NZHIS web site at <a href="http://www.nzhis.govt.nz/documentation/codetables.html">http://www.nzhis.govt.nz/documentation/codetables.html</a> . For further information or a printed copy of the code table, contact the Publications Officer. Contact details are given at the front of this dictionary.		
<b>Guide for use:</b>	Historically, also known as CHE (Crown Health Enterprise), HHS (Hospitals and Health Services) and AHB (Area Health Board).		
<b>Verification rules:</b>	Must be a valid code in the code table.		
<b>Collection method:</b>	The code table is continually updated by NZHIS as hospitals open and close. See the NZHIS web site for the most recent version.		
<b>Related data:</b>			

### Administrative attributes

<b>Source document:</b>	
<b>Source organisation:</b>	NZHIS

## Contract number

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Contract number

**Name in database:** contract\_number

**Other names:**

**Element type:** Data element

**Definition:** The contract number is specific to the Hepatitis B programme and unique to each provider.

**Context:**

### Relational and representational attributes

**Data type:** char **Field size:** 6 **Layout:**

**Data domain:** As agreed with Providers.

**Guide for use:** Used as a reference when claiming.

**Verification rules:** Mandatory. Must be a valid code in the code table.

**Collection method:** Supplied by provider on consent form.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**





## Exit from programme date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Exit from programme date

**Name in database:** exit\_from\_programme\_date

**Other names:**

**Element type:** Data element

**Definition:** The date recorded against certain exit types.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:** Recorded against the following exit types:

- Immune
- Refusal
- Outside Target
- Lost to follow up.

**Verification rules:** Must be on or after Date of birth and Programme entered date, and on or before the Programme exit date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Exit type code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Exit type code

**Name in database:** exit\_type

**Other names:**

**Element type:** Data element

**Definition:** The method and/or circumstances under which a patient left the screening programme.

**Context:**

### Relational and representational attributes

**Mandatory**

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

**Data domain:**

I	Immune
O	Outside target
L	Lost to follow up
R	Refusal
D	Death

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Screening Programme User table

**Table name:** Screening Programme User table

**Name in database:** hep\_b\_health\_care\_user\_tab **Version:** 1.0 **Version date:** 03-Feb-2003

**Definition:** A patient enrolled in the Hepatitis B Screening Programme.

**Guide for Use:** This table contains one entry for every person being treated.

**Primary Key:** Encrypted NHI number

**Business Key:**

**Relational Rules:**

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## Date of birth

### Administrative status

**Reference ID:** A0025-6 **Version:** 1.0 **Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Date of birth

**Name in database:** date\_of\_birth

**Other names:**

**Element type:** Data element

**Definition:** The date on which the person was born.

**Context:** Screening programme user.

### Relational and representational attributes

**Mandatory**

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

**Data domain:**

**Guide for use:**

**Verification rules:** Partial dates allowed.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Ethnic group codes

### Administrative status

**Reference ID:** A0027,A0208,A0209-7

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Ethnic group codes

**Name in database:** ethnic\_code, ethnic\_code\_2, ethnic\_code\_3

**Other names:** Ethnicity

**Element type:** Data element

**Definition:** A social group whose members have one or more of the following four characteristics:

- they share a sense of common origins
- they claim a common and distinctive history and destiny
- they possess one or more dimensions of collective cultural individuality
- they feel a sense of unique collective solidarity.

**Context:** Information on ethnicity is collected for planning and service delivery purposes and for monitoring health status across different ethnic groups. Ethnic group codes are key variables for determining the characteristics of the population that are using the health sector.

### Relational and representational attributes

**Mandatory**

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

**Data domain:**

10	European not further defined
11	NZ European
12	Other European
21	NZ Maori
30	Pacific Island not further defined
31	Samoan
32	Cook Island Maori
33	Tongan
34	Niuean
35	Tokelauan
36	Fijian
37	Other Pacific Island (not listed)
40	Asian not further defined
41	South east Asian
42	Chinese
43	Indian
44	Other Asian
51	Middle Eastern
52	Latin American/Hispanic
53	African
54	Other
99	Not stated

**Guide for use:** Up to 3 Ethnic group codes can be collected for each healthcare user. Where more than 3 ethnic group codes are reported, the Statistics NZ prioritisation algorithm is used to report only 3 values.

**Verification rules:** The values in the three Ethnic group code fields are mutually exclusive.

Ethnic group code 1 is mandatory. If Ethnic group code 2 is blank and Ethnic group code 3 has a value, then save Ethnic group code 3 as blank and save the value that was Ethnic group code 3 as Ethnic group code 2.

The Targeted Ethnicity table (included here) indicates whether an Ethnic group code is targeted by the Hepatitis B screening programme. This is used for calculating key indicators.

Ethnic Code	HepB Target Ethnicity Flag
10	N
11	N
12	N

21	Y
30	Y
31	Y
32	Y
33	Y
34	Y
35	Y
36	Y
37	Y
40	Y
41	Y
42	Y
43	Y
44	Y
51	N
52	N
53	N
54	N
99	N

**Collection method:** Ethnic code should be self-identified wherever possible.

**Related data:**

#### **Administrative attributes**

**Source document:** Smith, Anthony. 1981. The Ethnic Revival. Cambridge University Press.

**Source organisation:** Statistics NZ, modified by the National Data Policy Group.

## Sex

### Administrative status

**Reference ID:** A0028-6

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Sex

**Name in database:** gender\_code

**Other names:** Sex type code, Gender code

**Element type:** Data element

**Definition:** The person's biological sex.

**Context:** Required for demographic analysis.

### Relational and representational attributes

**Mandatory**

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

**Data domain:**

M	Male
F	Female
U	Unknown
I	Indeterminate

**Guide for use:** Stored as Gender code.

Because it is possible for a person's sex to change over time, NZHIS collects sex information for each health event, rather than relying on the data in the National Health Index (which does not include historical data).

**Verification rules:** Must be a valid code in the code table.

**Collection method:** 'I' codes are for use in cases, usually newborns, where it is not possible to determine the sex of the healthcare user.

The term sex refers to the biological differences between males and females, while the term gender refers to a person's social role (masculine or feminine).

Information collected for transsexuals and transgender people should be treated in the same manner, ie, their biological sex reported.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Secondary Care Investigation table

**Table name:** Secondary Care Investigation table

**Name in database:** investigation\_tab **Version:** 1.0 **Version date:** 31-Jan-2003

**Definition:** Details on the results of investigations and testing of a healthcare user following referral to the Secondary Care sector.

**Guide for Use:** The Hepatitis B secondary tables are currently empty.

Can only be entered against the associated Secondary Care Referral record.

Facility Code is the place that the biopsy was done.

Biopsy Outcome Type Code (from Biopsy Outcome Type) and Investigation Result Type Code (from Investigation Result Type) are the result of the CT Scan.

Investigation Result Type Code (from Investigation Result Type) is the result of the Ultrasound.

**Primary Key:** Encrypted NHI number

Agency code

Referral date

Investigation date

**Business Key:**

**Relational Rules:**

## Agency code

### Administrative status

**Reference ID:** A0138-4

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Agency code

**Name in database:** agency\_code

**Other names:** Health agency code, DHB

**Element type:** Data element

**Definition:** A code that uniquely identifies an agency. An agency is an organisation, institution or group of institutions that contracts directly with the principal health service purchaser to deliver healthcare services to the community.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** char **Field size:** 4 **Layout:** XXXX

**Data domain:** See the Agency code table on the NZHIS web site at <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 given at the front of this dictionary.

**Guide for use:** Historically, also known as CHE (Crown Health Enterprise), HHS (Hospitals and Health Services) and AHB (Area Health Board).

**Verification rules:** Must be a valid code in the code table.

**Collection method:** The code table is continually updated by NZHIS as hospitals open and close. See the NZHIS web site for the most recent version.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:** NZHIS



## Biopsy outcome code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Biopsy outcome code

**Name in database:** biopsy\_outcome\_code

**Other names:**

**Element type:** Data element

**Definition:** A coded value which represents a biopsy outcome.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** number                      **Field size:** 1                      **Layout:** N

**Data domain:**

1	Uncomplicated
2	Pain mild
3	Pain severe
4	Bleeding
5	Bleeding requiring transfusion
6	Infection
7	Death

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Cat scan result type

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Cat scan result type

**Name in database:** cat\_scan\_result\_type

**Other names:**

**Element type:** Data element

**Definition:** A coded value which represents an investigation result type.

**Context:**

### Relational and representational attributes

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

**Data domain:**  
1 Mass  
2 No mass

**Guide for use:** The Investigation Result Type code table contains codes for both Cat Scan test results and Ultrasound test results.

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Chronic hepatitis confirmed flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Chronic hepatitis confirmed flag

**Name in database:** chronic\_hepatitis\_confirmed

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether the screening programme user has chronic hepatitis (CH).

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:** Set to 'Y' if secondary care physician confirms chronic hepatitis (CH).

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Cirrhosis identified flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Cirrhosis identified flag

**Name in database:** cirrhosis\_identified\_flag

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether the screening programme user has cirrhosis of the liver.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:** Set to 'Y' if cirrhosis of the liver identified.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Delta positive flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Delta positive flag

**Name in database:** delta\_positive\_flag

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether the test for Delta Particles was positive or not.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Facility code

### Administrative status

**Reference ID:** A0143-4

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Facility code

**Name in database:** facility\_code

**Other names:** Health agency facility code, Hospital, HAF code, HAFC

**Element type:** Data element

**Definition:** A code that uniquely identifies a healthcare facility.

A healthcare facility is a place, which may be a permanent, temporary, or mobile structure, that healthcare users attend or are resident in for the primary purpose of receiving healthcare or disability support services. This definition excludes supervised hostels, halfway houses, staff residences, and rest homes where the rest home is the patient's usual place of residence.

### Context:

### Relational and representational attributes

**Mandatory**

**Data type:** char

**Field size:** 4

**Layout:** NNNN

**Data domain:** See the Facility code table on the NZHIS web site at <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 given at the front of this dictionary.

### Guide for use:

**Verification rules:** Must be a valid code in the code table.

### Collection method:

### Related data:

### Administrative attributes

#### Source document:

#### Source organisation:

## HCC confirmed flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** HCC confirmed flag

**Name in database:** hepatocellular\_carcinoma\_confir

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether Hepatocellular Carcinoma (HCC) is confirmed.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:** Set to 'Y' if secondary care physician confirms Hepatocellular Carcinoma (HCC).

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Investigation date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Investigation date

**Name in database:**

**Other names:**

**Element type:** Data element

**Definition:** The date of the investigation result.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after Programme entered date and Referral date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Other cancer flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Other cancer flag

**Name in database:** other\_cancer\_flag

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether the presence of another cancer has been detected.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Other condition flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Other condition flag

**Name in database:** other\_condition\_flag

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether the presence of another condition has been detected.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Other liver disease flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Other liver disease flag

**Name in database:** other\_liver\_disease\_flag

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether the presence of another liver disease has been detected.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Ovarian cysts flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Ovarian cysts flag

**Name in database:** ovarian\_cysts\_flag

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether ovarian cysts have been identified.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:** Set to 'Y' if ovarian cysts identified.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Pregnancy identified flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Pregnancy identified flag

**Name in database:** pregnancy\_identified\_flag

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether the screening programme user is pregnant.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:** Set to 'Y' if pregnancy identified.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Secondary care referral date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Secondary care referral date

**Name in database:** referral\_date

**Other names:**

**Element type:** Data element

**Definition:** The date the patient was referred to the secondary care provider for Chronic Hepatitis (CH) or Hepatocellular Carcinoma (HCC) as recorded by the secondary care provider.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after Date of birth and Programme entered date, and on or before Programme exit date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Ultrasound result type

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Ultrasound result type

**Name in database:** ultrasound\_result\_type

**Other names:**

**Element type:** Data element

**Definition:** A coded value which represents an investigation result type.

**Context:**

### Relational and representational attributes

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

**Data domain:**  
1 Mass  
2 No mass

**Guide for use:** The Investigation Result Type code table contains codes for both Cat Scan test results and Ultrasound test results.

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Secondary Care Referral table

**Table name:** Secondary Care Referral table

**Name in database:** referral\_tab

**Version:** 1.0

**Version date:** 31-Jan-2003

**Definition:** The referral of a Screening Programme User to secondary care as recorded by the secondary care provider.

**Guide for Use:** The Hepatitis B secondary tables are currently empty.

Condition code (from Condition Type) is the Main Reason for Referral.

Condition code other (from Condition Type) is the Other Reason for Referral.

**Primary Key:** Encrypted NHI number  
Agency code  
Referral date

**Business Key:**

**Relational Rules:**

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## Age when seen

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Age when seen

**Name in database:** secondary\_care\_age\_when\_seen

**Other names:**

**Element type:** Derived data element

**Definition:** The age of the screening programme user when they are first seen in secondary care.

**Context:**

### Relational and representational attributes

**Data type:** numeric

**Field size:** 3

**Layout:** NNN

**Data domain:**

**Guide for use:**

**Verification rules:** Calculated as Secondary care seen date minus Date of birth.

**Collection method:** Uploaded to the Data Warehouse from data to be collected by the Liver Transplant Unit at Auckland Hospital.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Agency code

### Administrative status

**Reference ID:** A0138-4

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Agency code

**Name in database:** agency\_code

**Other names:** Health agency code, DHB

**Element type:** Data element

**Definition:** A code that uniquely identifies an agency. An agency is an organisation, institution or group of institutions that contracts directly with the principal health service purchaser to deliver healthcare services to the community.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** char                      **Field size:** 4                      **Layout:** XXXX

**Data domain:** See the Agency code table on the NZHIS web site at <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 given at the front of this dictionary.

**Guide for use:** Historically, also known as CHE (Crown Health Enterprise), HHS (Hospitals and Health Services) and AHB (Area Health Board).

**Verification rules:** Must be a valid code in the code table.

**Collection method:** The code table is continually updated by NZHIS as hospitals open and close. See the NZHIS web site for the most recent version.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:** NZHIS

## Condition code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Condition code

**Name in database:** condition\_code

**Other names:**

**Element type:** Data element

**Definition:** The condition with which a screening programme user may be afflicted.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** varchar **Field size:** 3 **Layout:** AAX

**Data domain:** CH Chronic Hepatitis  
HCC Hepatocellular Carcinoma

**Guide for use:** Used as the reason for secondary care referral.

**Verification rules:** Must have a different value from Condition code other.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Condition code other

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Condition code other

**Name in database:** condition\_code\_other

**Other names:**

**Element type:** Data element

**Definition:** An additional condition with which a screening programme user may be afflicted.

**Context:**

### Relational and representational attributes

**Data type:** varchar **Field size:** 3 **Layout:** AAX

**Data domain:** CH Chronic Hepatitis  
HCC Hepatocellular Carcinoma

**Guide for use:**

**Verification rules:** Optional.

Must have a different value from Condition code.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Facility code

### Administrative status

**Reference ID:** A0143-4

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Facility code

**Name in database:** facility\_code

**Other names:** Health agency facility code, Hospital, HAF code, HAFC

**Element type:** Data element

**Definition:** A code that uniquely identifies a healthcare facility.

A healthcare facility is a place, which may be a permanent, temporary, or mobile structure, that healthcare users attend or are resident in for the primary purpose of receiving healthcare or disability support services. This definition excludes supervised hostels, halfway houses, staff residences, and rest homes where the rest home is the patient's usual place of residence.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** char

**Field size:** 4

**Layout:** NNNN

**Data domain:** See the Facility code table on the NZHIS web site at <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 given at the front of this dictionary.

**Guide for use:**

**Verification rules:** Must be a valid code in the code table.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Secondary care referral date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Secondary care referral date

**Name in database:** referral\_date

**Other names:**

**Element type:** Data element

**Definition:** The date the patient was referred to the secondary care provider for Chronic Hepatitis (CH) or Hepatocellular Carcinoma (HCC) as recorded by the secondary care provider.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after Date of birth and Programme entered date, and on or before Programme exit date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Secondary care seen date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Secondary care seen date

**Name in database:** date\_seen

**Other names:**

**Element type:** Data element

**Definition:** The date the patient was actually seen by a secondary care provider.

**Context:**

### Relational and representational attributes

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after the Programme entered date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Secondary Care Treatment Offer table

<b>Table name:</b>	Secondary Care Treatment Offer table		
<b>Name in database:</b>	treatment_offer_tab	<b>Version:</b> 1.0	<b>Version date:</b> 31-Jan-2003
<b>Definition:</b>	Details of an offer of secondary care treatment and whether it was accepted.		
<b>Guide for Use:</b>	The Hepatitis B secondary tables are currently empty.		
	Can only be entered against the associated Secondary Care Referral record.		
<b>Primary Key:</b>	Condition code Treatment type Encrypted NHI number Agency code Referral date		
<b>Business Key:</b>			
<b>Relational Rules:</b>			

## Agency code

### Administrative status

<b>Reference ID:</b>	A0138-4	<b>Version:</b> 1.0	<b>Version date:</b> 01-Jan-2003
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### Identifying and defining attributes

<b>Name:</b>	Agency code
<b>Name in database:</b>	agency_code
<b>Other names:</b>	Health agency code, DHB
<b>Element type:</b>	Data element
<b>Definition:</b>	A code that uniquely identifies an agency. An agency is an organisation, institution or group of institutions that contracts directly with the principal health service purchaser to deliver healthcare services to the community.

### Context:

### Relational and representational attributes

**Mandatory**

<b>Data type:</b>	char	<b>Field size:</b> 4	<b>Layout:</b> XXXX
<b>Data domain:</b>	See the Agency code table on the NZHIS web site at <a href="http://www.nzhis.govt.nz/documentation/codetables.html">http://www.nzhis.govt.nz/documentation/codetables.html</a> . For further information or a printed copy of the code table, contact the Publications Officer. Contact details are given at the front of this dictionary.		
<b>Guide for use:</b>	Historically, also known as CHE (Crown Health Enterprise), HHS (Hospitals and Health Services) and AHB (Area Health Board).		
<b>Verification rules:</b>	Must be a valid code in the code table.		
<b>Collection method:</b>	The code table is continually updated by NZHIS as hospitals open and close. See the NZHIS web site for the most recent version.		
<b>Related data:</b>			

### Administrative attributes

<b>Source document:</b>	
<b>Source organisation:</b>	NZHIS

## Condition code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Condition code

**Name in database:** condition\_code

**Other names:**

**Element type:** Data element

**Definition:** The condition with which a screening programme user may be afflicted.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** varchar **Field size:** 3 **Layout:** AAX

**Data domain:** CH Chronic Hepatitis  
HCC Hepatocellular Carcinoma

**Guide for use:** Used as the reason for secondary care referral.

**Verification rules:** Must have a different value from Condition code other.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Secondary care referral date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Secondary care referral date

**Name in database:** referral\_date

**Other names:**

**Element type:** Data element

**Definition:** The date the patient was referred to the secondary care provider for Chronic Hepatitis (CH) or Hepatocellular Carcinoma (HCC) as recorded by the secondary care provider.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after Date of birth and Programme entered date, and on or before Programme exit date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Treatment accepted date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Treatment accepted date

**Name in database:** treatment\_accepted\_date

**Other names:**

**Element type:** Data element

**Definition:** The date HCC or CH treatment is accepted.

**Context:**

### Relational and representational attributes

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after Programme entered date and Treatment offered date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Treatment accepted flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Treatment accepted flag

**Name in database:** treatment\_accepted\_flag

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether treatment was accepted or not.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Treatment offered date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Treatment offered date

**Name in database:** treatment\_offered\_date

**Other names:**

**Element type:** Data element

**Definition:** The date the HCC or CH treatment is offered.

**Context:**

### Relational and representational attributes

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after the Programme entered date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Treatment offered flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Treatment offered flag

**Name in database:** treatment\_offered\_flag

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether treatment was offered or not.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Treatment type code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Treatment type code

**Name in database:** treatment\_type

**Other names:**

**Element type:** Data element

**Definition:** The type of treatment offered in secondary care to a screening programme user suffering from Chronic Hepatitis or Hepatocellular Carcinoma (eg, pharmacological treatment such as interferon for CH, or transplant for HCC).

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** numeric                      **Field size:** 1                      **Layout:** N

**Data domain:**

1	Interferon
2	Lamivudine
3	Resection
4	Transplant
5	Nonsurgical therapy for HCC (ethanol, RF, TRACE)

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Secondary Care Treatment table

**Table name:** Secondary Care Treatment table

**Name in database:** treatment\_tab

**Version:** 1.0

**Version date:** 31-Jan-2003

**Definition:** Details of secondary care treatment.

**Guide for Use:** The Hepatitis B secondary tables are currently empty.

Can only be entered against the associated Secondary Care Treatment Offer record.

**Primary Key:** Encrypted NHI number

Condition code

Treatment type

Agency code

Referral date

Treatment started date

**Business Key:**

**Relational Rules:**

## Agency code

### Administrative status

**Reference ID:** A0138-4

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Agency code

**Name in database:** agency\_code

**Other names:** Health agency code, DHB

**Element type:** Data element

**Definition:** A code that uniquely identifies an agency. An agency is an organisation, institution or group of institutions that contracts directly with the principal health service purchaser to deliver healthcare services to the community.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** char **Field size:** 4 **Layout:** XXXX

**Data domain:** See the Agency code table on the NZHIS web site at <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 given at the front of this dictionary.

**Guide for use:** Historically, also known as CHE (Crown Health Enterprise), HHS (Hospitals and Health Services) and AHB (Area Health Board).

**Verification rules:** Must be a valid code in the code table.

**Collection method:** The code table is continually updated by NZHIS as hospitals open and close. See the NZHIS web site for the most recent version.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:** NZHIS

## Condition code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Condition code

**Name in database:** condition\_code

**Other names:**

**Element type:** Data element

**Definition:** The condition with which a screening programme user may be afflicted.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** varchar **Field size:** 3 **Layout:** AAX

**Data domain:** CH Chronic Hepatitis  
HCC Hepatocellular Carcinoma

**Guide for use:** Used as the reason for secondary care referral.

**Verification rules:** Must have a different value from Condition code other.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Facility code

### Administrative status

**Reference ID:** A0143-4

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Facility code

**Name in database:** facility\_code

**Other names:** Health agency facility code, Hospital, HAF code, HAFC

**Element type:** Data element

**Definition:** A code that uniquely identifies a healthcare facility.

A healthcare facility is a place, which may be a permanent, temporary, or mobile structure, that healthcare users attend or are resident in for the primary purpose of receiving healthcare or disability support services. This definition excludes supervised hostels, halfway houses, staff residences, and rest homes where the rest home is the patient's usual place of residence.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** char

**Field size:** 4

**Layout:** NNNN

**Data domain:** See the Facility code table on the NZHIS web site at <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 given at the front of this dictionary.

**Guide for use:**

**Verification rules:** Must be a valid code in the code table.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Outcome code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Outcome code

**Name in database:** outcome\_code

**Other names:**

**Element type:** Data element

**Definition:** A coded value which represents the outcome of the screening programme for the screening programme user.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:**

C	Cured
D	Death
T	Recurrence of tumour
R	Remission
F	Tumour free
A	Awaiting future therapies

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Secondary care referral date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Secondary care referral date

**Name in database:** referral\_date

**Other names:**

**Element type:** Data element

**Definition:** The date the patient was referred to the secondary care provider for Chronic Hepatitis (CH) or Hepatocellular Carcinoma (HCC) as recorded by the secondary care provider.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after Date of birth and Programme entered date, and on or before Programme exit date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Treatment completed date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Treatment completed date

**Name in database:** treatment\_completed\_date

**Other names:**

**Element type:** Data element

**Definition:** The date treatment is completed.

**Context:**

### Relational and representational attributes

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after Programme entered date and Treatment started date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Treatment outcome date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Treatment outcome date

**Name in database:** treatment\_outcome\_date

**Other names:**

**Element type:** Data element

**Definition:** The date an outcome of the treatment is recorded.

**Context:**

### Relational and representational attributes

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after the Programme entered date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Treatment started date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Treatment started date

**Name in database:** treatment\_started\_date

**Other names:**

**Element type:** Data element

**Definition:** The date the HCC treatment started.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after Programme entered date, Secondary care referral date, Treatment offered date, and Treatment accepted date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Treatment stopped or reduced

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Treatment stopped or reduced

**Name in database:** treatment\_stopped\_reduced

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether the treatment has been either stopped or reduced.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:** Set to 'Y' if treatment is either stopped or reduced.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Treatment stopped or reduced reason code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Treatment stopped or reduced reason code

**Name in database:** treatment\_stopped\_code

**Other names:**

**Element type:** Data element

**Definition:** A coded value which represents the reason the treatment was either stopped or reduced.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 2

**Layout:** AA

**Data domain:**

NR	Non-responder
AH	ALT high (for Lamivudine)
D+	DNA+ (for Lamivudine)
SA	Serious adverse event

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Treatment type code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Treatment type code

**Name in database:** treatment\_type

**Other names:**

**Element type:** Data element

**Definition:** The type of treatment offered in secondary care to a screening programme user suffering from Chronic Hepatitis or Hepatocellular Carcinoma (eg, pharmacological treatment such as interferon for CH, or transplant for HCC).

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** numeric                      **Field size:** 1                      **Layout:** N

**Data domain:**

1	Interferon
2	Lamivudine
3	Resection
4	Transplant
5	Nonsurgical therapy for HCC (ethanol, RF, TRACE)

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## SPU Status table

**Table name:** SPU Status table

**Name in database:** status\_tab **Version:** 1.0 **Version date:** 31-Jan-2003

**Definition:** Flags and status code derived from analysis of laboratory results by providers or laboratories.

**Guide for Use:** Contains a summary of the patient's current status. No historic data is included. Carrier Update records can be loaded into the SPU Status table at any time on or after a Programme enrolment date, even after a Programme Exit record has been loaded.

Does not contain Contract number.

The screening programme user must exist in the database but does not need to have been created under the same contract.

**Primary Key:** Encrypted NHI number

**Business Key:**

**Relational Rules:**

---

## AFP flag

### Administrative status

**Reference ID:** **Version:** 1.0 **Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** AFP flag

**Name in database:** afp\_flag

**Other names:**

**Element type:** Data element

**Definition:** Indicates a second positive result from test for alpha foetoprotein (AFP), a tumour marker.

**Context:**

### Relational and representational attributes

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

**Data domain:** Y Yes  
N No

**Guide for use:**

**Verification rules:**

**Collection method:** Flag is set to 'Y' if there are 2 readings over 20 ng/ml at least 3 months apart.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## ALT flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** ALT flag

**Name in database:** alt\_flag

**Other names:**

**Element type:** Data element

**Definition:** Indicates a third positive result from test for alanine aminotransferase (ALT), an indication of liver cell damage.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:** Flag is set to 'Y' if elevated on 3 occasions over 3 months.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Carrier flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Carrier flag

**Name in database:** carrier\_flag

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether the screening programme user is Hepatitis B surface antigen (HBsAg) positive.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:** Set to 'Y' if the screening programme user is Hepatitis B surface antigen (HBsAg) positive after first screen test.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Encrypted NHI number

### Administrative status

**Reference ID:** A0319-5

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Encrypted NHI number

**Name in database:** encrypted\_hcu\_id

**Other names:** See other names for the NHI number under 'Guide for use' below.

**Element type:** Derived data element

**Definition:** The NHI number in encrypted form.

**Context:** 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. The NHI number uniquely identifies healthcare users, and allows linking between different data collections. It is encrypted to ensure privacy of individual records.

### Relational and representational attributes

**Data type:** char

**Field size:** 11

**Layout:**

**Data domain:** System-generated

**Guide for use:** The NHI number is also known as National Health Index, HCU identifier, NHI, HCU, HCU Number, Healthcare User identifier, HCU identification number, NMPI number, Hospital Number, Patient 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. Please contact an NZHIS information analyst for further information on how to obtain the master encrypted NHI number if you are performing your own data extraction.

The Privacy Commissioner considers the NHI number to be personally identifying information (like name and address) so, if it is linked to clinical information, it must be held securely and the healthcare user's privacy protected. The Encrypted NHI number is not considered personally identifying.

NZHIS will return data containing unencrypted NHI numbers to providers who have sent it in. Information with unencrypted NHI numbers may be disclosed to researchers on a case-by-case basis.

**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.

**Encryption:** The NHI number is encrypted using a one-way encryption algorithm. The aim is to provide an encrypted number that can be sent across public (unsecured) networks.

**Verification rules:** Must be registered on the NHI database before the NHI number can be used in the Hepatitis B Screening Programme.

**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/>

**Source organisation:** NZHIS

## HBeAg flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** HBeAg flag

**Name in database:** hbeag\_flag

**Other names:**

**Element type:** Data element

**Definition:** Indicates a positive result from test for Hepatitis B e antigen (HBeAg).

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:** Set to 'Y' as soon as first positive result from test for Hepatitis B e antigen (HBeAg).

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## HBsAg flag

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** HBsAg flag

**Name in database:** hbsag\_flag

**Other names:**

**Element type:** Data element

**Definition:** Indicates a positive result from test for Hepatitis B surface antigen (HBsAg).

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes

N No

**Guide for use:**

**Verification rules:**

**Collection method:** Set to 'Y' as soon as first positive result from test for Hepatitis B surface antigen (HBsAg).

Reset if subsequent round of surveillance less than 10 ng/ml.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Patient status code

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Patient status code

**Name in database:** patient\_status\_code

**Other names:**

**Element type:** Data element

**Definition:** A coded value which represents the status of a patient.

**Context:**

### Relational and representational attributes

**Mandatory**

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

**Data domain:**

I	Immune
N	Non-immune
C	Carrier
O	Non-carriers over 40 years

**Guide for use:**

Source System Status Codes	Hep B	Warehouse	Patient Status Code
Hepatitis C	HC	not required	
Immune	Im	Immune	I
Infected	In	Carrier	C
Known Carrier	KC	Carrier	C
Known Carrier lost	KL	Carrier	C
Low Immunity	LI	Non-Immune	N
HBsAg-ve	Ng	Non-Immune	N
Susceptible	S	Non-Immune	N

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Vaccination table

**Table name:** Vaccination table

**Name in database:** vaccination\_tab

**Version:** 1.0

**Version date:** 31-Jan-2003

**Definition:** Details of a Vaccination given as a result of the initial HBeAg test showing that the Screening Programme User was not immune, but was susceptible.

**Guide for Use:** After a Programme Enrolment record (with any contract number) has been loaded, any number of Laboratory Test Results, Primary Referral to Secondary Care, or Vaccination Detail records can be loaded.

The screening programme user must exist in the database but does not need to have been created under the same contract.

**Primary Key:** Encrypted NHI number  
Vaccination stage

**Business Key:**

**Relational Rules:**

---

## Contract number

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Contract number

**Name in database:** contract\_number

**Other names:**

**Element type:** Data element

**Definition:** The contract number is specific to the Hepatitis B programme and unique to each provider.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 6

**Layout:**

**Data domain:** As agreed with Providers.

**Guide for use:** Used as a reference when claiming.

**Verification rules:** Mandatory. Must be a valid code in the code table.

**Collection method:** Supplied by provider on consent form.

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Encrypted NHI number

### Administrative status

**Reference ID:** A0319-5

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Encrypted NHI number

**Name in database:** encrypted\_hcu\_id

**Other names:** See other names for the NHI number under 'Guide for use' below.

**Element type:** Derived data element

**Definition:** The NHI number in encrypted form.

**Context:** 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. The NHI number uniquely identifies healthcare users, and allows linking between different data collections. It is encrypted to ensure privacy of individual records.

### Relational and representational attributes

**Data type:** char

**Field size:** 11

**Layout:**

**Data domain:** System-generated

**Guide for use:** The NHI number is also known as National Health Index, HCU identifier, NHI, HCU, HCU Number, Healthcare User identifier, HCU identification number, NMPI number, Hospital Number, Patient 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. Please contact an NZHIS information analyst for further information on how to obtain the master encrypted NHI number if you are performing your own data extraction.

The Privacy Commissioner considers the NHI number to be personally identifying information (like name and address) so, if it is linked to clinical information, it must be held securely and the healthcare user's privacy protected. The Encrypted NHI number is not considered personally identifying.

NZHIS will return data containing unencrypted NHI numbers to providers who have sent it in. Information with unencrypted NHI numbers may be disclosed to researchers on a case-by-case basis.

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.

Encryption: The NHI number is encrypted using a one-way encryption algorithm. The aim is to provide an encrypted number that can be sent across public (unsecured) networks.

**Verification rules:** Must be registered on the NHI database before the NHI number can be used in the Hepatitis B Screening Programme.

**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/>

**Source organisation:** NZHIS

## Facility code

### Administrative status

**Reference ID:** A0143-4

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Facility code

**Name in database:** facility\_code

**Other names:** Health agency facility code, Hospital, HAF code, HAFC

**Element type:** Data element

**Definition:** A code that uniquely identifies a healthcare facility.

A healthcare facility is a place, which may be a permanent, temporary, or mobile structure, that healthcare users attend or are resident in for the primary purpose of receiving healthcare or disability support services. This definition excludes supervised hostels, halfway houses, staff residences, and rest homes where the rest home is the patient's usual place of residence.

**Context:**

### Relational and representational attributes

**Mandatory**

**Data type:** char

**Field size:** 4

**Layout:** NNNN

**Data domain:** See the Facility code table on the NZHIS web site at <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 given at the front of this dictionary.

**Guide for use:**

**Verification rules:** Must be a valid code in the code table.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Vaccination adverse reaction indicator

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Vaccination adverse reaction indicator

**Name in database:** vaccination\_adverse\_indicator

**Other names:**

**Element type:** Data element

**Definition:** Indicates whether there was an adverse reaction by the screening programme user to the vaccination.

**Context:**

### Relational and representational attributes

**Data type:** char

**Field size:** 1

**Layout:** A

**Data domain:** Y Yes  
N No

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**



## Vaccination date

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Vaccination date

**Name in database:** vaccination\_date

**Other names:**

**Element type:** Data element

**Definition:** The date the vaccination was administered.

**Context:**

### Relational and representational attributes

**Data type:** datetime

**Field size:**

**Layout:** CCYYMMDD

**Data domain:**

**Guide for use:**

**Verification rules:** Must be on or after the Programme entered date and on or before the Programme exit date.

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Vaccination stage

### Administrative status

**Reference ID:**

**Version:** 1.0

**Version date:** 01-Jan-2003

### Identifying and defining attributes

**Name:** Vaccination stage

**Name in database:** vaccination\_stage

**Other names:**

**Element type:** Data element

**Definition:** Indicates the stage at which the vaccination is taking place (ie, first vaccination, second vaccination, etc).

**Context:**

### Relational and representational attributes

**Data type:** numeric

**Field size:** 1

**Layout:** N

**Data domain:** 1,2 or 3

**Guide for use:**

**Verification rules:**

**Collection method:**

**Related data:**

### Administrative attributes

**Source document:**

**Source organisation:**

## Appendix A: Data Dictionary Template

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<b>Introduction</b>	This appendix explains how data element attributes are organised in the data dictionary template.
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<b>Order of elements</b>	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.
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<b>Template</b>	This table explains the template.
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<b><i>Administrative status</i></b>	The operational status (eg, CURRENT, SUPERSEDED) of the data element. No SUPERSEDED data elements will be included in the Dictionaries.
<b><i>Reference ID</i></b>	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.
<b><i>Version number</i></b>	<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"> <li>– name</li> <li>– definition</li> <li>– data domain, eg, adding a new value to the field.</li> </ul> <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>
<b><i>Version date</i></b>	The date the new version number was assigned.

  

### Identifying and defining attributes

<b><i>Name</i></b>	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.
<b><i>Data element type</i></b>	<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>
<b><i>Definition</i></b>	A statement that expresses the essential nature of a data element and its differentiation from all other data elements.
<b><i>Context (optional)</i></b>	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

<b>Data type</b>	The type of field in which a data element is held. For example, character, integer, or numeric.
<b>Field size</b>	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.
<b>Layout</b>	The representational layout of characters in data element values expressed by a character string representation. For example: <ul style="list-style-type: none"> <li>- 'CCYYMMDD' for calendar date</li> <li>- 'N' for a one-digit numeric field</li> <li>- 'A' for a one-character field</li> <li>- 'X' for a field that can hold either a character or a digit, and</li> <li>- '\$\$\$,\$\$\$,\$\$\$' for data elements about expenditure.</li> </ul>
<b>Data domain</b>	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.
<b>Guide for use (optional)</b>	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.
<b>Verification rules (optional)</b>	The rules and/or instructions applied for validating and/or verifying elements, in addition to the formal edits.
<b>Collection methods – Guide for providers (optional)</b>	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).
<b>Related data (optional)</b>	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...'.
<b>Administrative attributes</b>	
<b>Source document (optional)</b>	The document from which definitional or representational attributes originate.
Source organisation (if available)	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:**

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See *Appendix B: Glossary* in separate document.

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## Appendix C: Logical Groups of Elements

### Agency

Agency code  
Contract number  
Facility code

### Laboratory Test

Blood sample taken date  
Laboratory test date  
Result  
Stage code  
Test completed date  
Test performed date  
Test type code

### Programme

Eligible indicator  
Exit from programme date  
Exit type code  
In target area indicator  
Initial contact type code  
Invitation source code  
Nominator's encrypted NHI number  
Programme entered date  
Target population indicator

### Referral

Primary referral to secondary care date

### Secondary Care

Biopsy outcome code  
Cat scan result type  
Chronic hepatitis confirmed flag  
Cirrhosis identified flag  
Delta positive flag  
HCC confirmed flag  
Investigation date  
Other cancer flag  
Other condition flag  
Other liver disease flag  
Outcome code  
Ovarian cysts flag  
Pregnancy identified flag  
Secondary care referral date  
Secondary care seen date  
Treatment accepted date  
Treatment accepted flag  
Treatment completed date  
Treatment offered date  
Treatment offered flag  
Treatment outcome date  
Treatment started date  
Treatment stopped or reduced  
Treatment stopped or reduced reason code  
Treatment type code  
Ultrasound result type

### SPU

Age on programme entry  
Age when seen  
Date of birth  
Encrypted NHI number  
Ethnic group codes  
Sex

### SPU Given Test Results

Patient given result date  
Patient given result indicator

### SPU Status

AFP flag  
ALT flag  
Carrier flag  
Condition code  
Condition code other  
HBeAg flag  
HBsAg flag  
Patient status code

### Vaccination

Vaccination adverse react indicator  
Vaccination date  
Vaccination stage

## Appendix D: Code Table Index

Code table	Location
Agency code table	See the NZHIS web site.
Biopsy Outcome code table	See <i>Biopsy outcome code</i> on page 43.
Condition code table	See <i>Condition code</i> on pages 12, 61, 68 and 77 and <i>Condition code other</i> on pages 13 and 62.
Ethnic Group code table	See <i>Ethnic group codes</i> on page 39.
Exit Type code table	See <i>Exit type code</i> on page 36.
Facility code table	See the NZHIS web site.
Initial Contact Type code table	See <i>Initial contact type code</i> on page 26.
Investigation Result Type code table	See <i>Cat scan result type</i> on page 44 and <i>Ultrasound result type</i> on page 58.
Invitation Source code table	See <i>Invitation source code</i> on page 27.
Laboratory Test Type code table	See <i>Test type code</i> on pages 11 and 20.
Outcome code table	See <i>Outcome code</i> on page 80.
Patient Status code table	See <i>Patient status code</i> on page 94.
Sex Type code table	See <i>Sex</i> on page 41.
Targeted Ethnicity table	See <i>Ethnic group codes</i> on page 39.
Test Stage code table	See <i>Test stage code</i> on pages 10 and 19.
Treatment Stopped Reduced code table	See <i>Treatment stopped or reduced reason code</i> on page 86.
Treatment Type code table	See <i>Treatment type code</i> on pages 75 and 87.

### Code tables on web site

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

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