Ethnicity Data Protocols

HISO 10001:2017

Version 1.1

**Keeping standards up to date**

HISO standards are regularly updated to reflect advances in health information science and technology. See our website ([health.govt.nz](http://www.health.govt.nz)) for information about the standards’ development process. We welcome your ideas for improving this standard. Email [standards@health.govt.nz](mailto:standards@health.govt.nz) or write to Health Information Standards, Ministry of Health, PO Box 5013, Wellington 6140.

**Acknowledgements**

The Ministry of Health thanks the review panel for their valuable assistance in reviewing and redrafting the Ethnicity Data Protocols:

Dr Karen Bartholomew, Waitemata DHB and Auckland DHB

Dr Sarah Sharpe, Counties Manukau Health

Dr Donna Cormack, University of Otago and University of Auckland

Andrew Hancock, Stats NZ

Matt Phimmavanh, Stats NZ.

The Ethnicity Data Protocols are a living document. This is their second revision and the review panel wishes to acknowledge the work of the original authors of the protocol and those who undertook the second revision. This revision updates and builds upon the previous versions.

Citation: Ministry of Health. 2017. *HISO 10001:2017 Ethnicity Data Protocols*. Wellington: Ministry of Health.

Published in September 2017 by the Ministry of Health  
PO Box 5013, Wellington 6140, New Zealand

ISBN 978-1-98-850291-5 (online)  
HP 7673

Health Information Standards Organisation (HISO) standards are published by the Ministry of Health for the New Zealand health and disability sector.



This document is available at [health.govt.nz](http://www.health.govt.nz)

The Ethnicity Data Protocols were originally published in 2004 by the Ministry of Health, with the Ethnicity Data Protocols Supplementary Notes published in 2009. This edition replaces the first edition and the supplementary notes.

|  |  |
| --- | --- |
| **CCBY** | This work is licensed under the Creative Commons Attribution 4.0 International licence. In essence, you are free to: share ie, copy and redistribute the material in any medium or format; adapt ie, remix, transform and build upon the material. You must give appropriate credit, provide a link to the licence and indicate if changes were made. |

Contents

[Requirement for change 1](#_Toc98429259)

[Summary of protocol requirements 2](#_Toc98429260)

[Collecting and confirming ethnicity 2](#_Toc98429261)

[Classifying, recording and storing ethnicity 2](#_Toc98429262)

[Protocol requirements for output 3](#_Toc98429263)

[1 Background 4](#_Toc98429264)

[1.1 Applicability of the protocols 4](#_Toc98429265)

[1.2 Purposes for collecting ethnicity data 4](#_Toc98429266)

[1.3 Treaty of Waitangi obligations 5](#_Toc98429267)

[2 Ethnicity data context 6](#_Toc98429268)

[2.1 Definition of ethnicity 6](#_Toc98429269)

[2.2 Data quality 7](#_Toc98429270)

[2.3 Additional or related information 7](#_Toc98429271)

[3 Protocols for collecting and confirming ethnicity data 8](#_Toc98429272)

[3.1 Protocol requirements for collection 9](#_Toc98429273)

[3.2 Standard ethnicity question 9](#_Toc98429274)

[3.3 Process for collecting ethnicity data 10](#_Toc98429275)

[3.4 Process for confirming ethnicity data 13](#_Toc98429276)

[3.5 Process for correcting ethnicity data 14](#_Toc98429277)

[3.6 Frequency of collecting and confirming ethnicity data 14](#_Toc98429278)

[4 Protocols for classifying, recording and storing ethnicity data 16](#_Toc98429279)

[4.2 Classification structure 17](#_Toc98429280)

[4.3 How to record ethnicity 18](#_Toc98429281)

[4.4 Coding non-ethnicity responses 21](#_Toc98429282)

[5 Protocols for output of ethnicity data 23](#_Toc98429283)

[5.1 Protocol requirements for output 23](#_Toc98429284)

[5.2 Stats NZ output aggregation groups 24](#_Toc98429285)

[5.3 Non-standard output groupings 24](#_Toc98429286)

[5.4 Output for ‘New Zealander’ 25](#_Toc98429287)

[5.5 Considerations for output of multiple ethnicity 25](#_Toc98429288)

[5.6 Clear definition of output method 28](#_Toc98429289)

[6 History of changes 30](#_Toc98429290)

[Appendix A 33](#_Toc98429291)

[Reducing multiple ethnic responses, manual methodology 33](#_Toc98429292)

[Coding multiple worded responses 35](#_Toc98429293)

[Residual categories 36](#_Toc98429294)

[Appendix B 37](#_Toc98429295)

[Revision history 37](#_Toc98429296)

List of Tables

Table 1: Residual codes 20

Table 2: Prioritisation for level 1 codes 27

Table 3: Prioritisation for level 2 codes 27

Table 4: Protocol revisions and alignment with Statistical Standard for Ethnicity 2005 30

Table 5: Definitions for Residual codes 36

List of Figures

Figure 1: Standard ethnicity question 10

Figure 2: Ethnicity classification level relationships (Asian example) 17

Requirement for change

New Zealand is recognised as a world leader in our ability to analyse health data by ethnicity.

The process of collecting and reporting ethnicity data in New Zealand has evolved significantly over time. We have moved from non-standardised collection of data to a process of collecting, recording and output of ethnicity data governed by [Stats NZ’s *Statistical Standard, Ethnicity V1.0.0* (](http://aria.stats.govt.nz/aria/#StandardView:uri=http://stats.govt.nz/cms/StatisticalStandard/vv0ovwUoTSSVDhpt)statistical standard) and the *Ethnicity Data Protocols for the Health and Disability Sector* (the protocols).

In the last decade, there has been a rapid shift in primary care from a system that did not record ethnicity routinely to one with near complete ethnicity data recording. This transition has been an important step in our evolving ability to monitor and report key health indicators by ethnicity. This updated document supports the next step in our ongoing efforts to capture high-quality ethnicity data. As we shift the health systems to providing more care closer to home and our data systems towards greater integration, these protocols align with data quality improvement efforts across the sector. This will assist in ensuring we can monitor both the health status of our populations and our interventions to improve health outcomes.

The protocols have been updated to address the move in the health and disability sector to electronic collection and storage of data. The protocols define appropriate processes for confirmation or correction of ethnicity where existing data is held for a respondent and an appropriate frequency for collecting ethnicity data.

They have been updated alongside other key strategic documents.[[1]](#footnote-1) This review allows us to fully integrate the health and disability sector protocols and the statistical standard. The updated protocols support a transition from the previous minimum requirements of recording up to three ethnicities at level 2 classification to recording up to six ethnicities at level 4 classification. This reflects the requirement for information systems to capture the greater population diversity and improved granularity of information to plan, fund and monitor health services. These changes represent a significant move forward in terms of ethnicity data collection and will make a valuable contribution for health.

Summary of protocol requirements

The *Ethnicity Data Protocols for the Health and Disability Sector* (the protocols) describes procedures for the standardised collection, recording and output of ethnicity data for the New Zealand health and disability sector.

Collecting and confirming ethnicity

The standard ethnicity question for the health and disability sector is the Stats NZ 2018 Census ethnicity question.

Where a respondent may not be able to fill in a form or questionnaire themselves due to disability, incapacity, being deceased or being a newborn or child, the approach should be adjusted.

The respondent must identify their own ethnicity (called self-identification) regardless of collection method – for example, face-to-face contact, use of a form, electronic collection or telephone.

The collector must not guess ethnicity on behalf of the respondent or limit the number of ethnicities given.

Ethnicity may be collected at any time but must be collected at least every three years.

Ethnicity may be confirmed at any time when other personal details such as gender and contact details are also confirmed.

Classifying, recording and storing ethnicity

The latest version of the Stats NZ’s *Ethnicity New Zealand Standard Classification 2005* structure must be used to code ethnicity data.

Ethnicity data must be recorded at level 4 (the most detailed level of the classification).

Information systems must be capable of recording up to six responses.

Where a respondent reports more than six ethnicities, the Stats NZ standard process for reducing multiple ethnic responses must be followed.

Where a respondent reports multiple ethnicities, a ‘principal ethnicity’ must not be recorded.

‘New Zealander’ and like responses should be coded to the ‘New Zealander’ code at level 4.

Protocol requirements for output

The same output method and aggregate categories must be used for both numerator and denominator datasets.

‘New Zealander’ type responses should continue to be aggregated to ‘New Zealand European’ in the process of output to maintain time series in the sector. It may also be output to the ‘Other’ category where this will enable comparability or maintain time series with a dataset.

Where there are multiple ethnicities for a respondent, one of the following three methods of output must be used:

* total response (overlapping)
* prioritised (the most common form of output in the health and disability sector)
* sole/combination.

The method used must be described or noted along with any analysis. Standard descriptions are available in the statistical standard.

Up to six ethnicities at level 4 must be reported to Ministry of Health National Systems.

# Background

The *Ethnicity Data Protocols for the* *Health and Disability Sector* (the protocols)describe procedures for the standardised collection, recording and output of ethnicity data for the New Zealand health and disability sector.

This second protocol revision is consistent with Stats NZ’s [*Statistical Standard, Ethnicity V1.0.0*](http://aria.stats.govt.nz/aria/?_ga=2.209798037.1081760066.1617239711-112780126.1590639140#StandardView:uri=http://stats.govt.nz/cms/StatisticalStandard/vv0ovwUoTSSVDhpt) (statistical standard) and outlines a new set of minimum standards that apply across the health and disability sector to all organisations that collect, record and use ethnicity data. Integration of the revised protocols into the health and disability sector will assist in the ongoing process of improving the quality, accuracy and consistency of ethnicity data.

## Applicability of the protocols

The individuals and groups in the health and disability sector to which this set of protocolsapplies are:

* patients and/or consumers – for example, health and disability service users
* employees of health and disability organisations and agencies – for example, for health workforce statistics
* populations.

The users of these protocols in the health and disability sector include:

* collectors and processers of ethnicity data including health and disability administrators, clerks and health professionals
* users of ethnicity data including all those who use health and disability ethnicity data for activities such as research, service planning or quality control, monitoring performance and targeting resources or for specific activities like deriving funding formulae
* health information software developers.

The person giving their ethnicity is referred to as the respondent.

## Purposes for collecting ethnicity data

High-quality ethnicity data in the health and disability sector are important for the following reasons:

* Ethnicity data are part of a set of routinely collected administrative data used by health sector planners, funders and providers to design and deliver better policies, services and programmes. Better information can help improve every New Zealander’s health by providing a sound basis for decision-making. Some individually-focused care planning includes the offer of services that include ethnicity as a variable (for example, cardiovascular risk assessment) where targeted interventions are designed to address population-level inequalities in access and/or health outcomes.
* In New Zealand, there are significant ethnic health inequities. The impact of these inequities is particularly evident for Māori and Pacific Peoples, whose health status is lower on average than that of other New Zealanders.
* Key health sector documents, including the *New Zealand Health Strategy*,[[2]](#footnote-2) highlight quality information systems as an important element of improving system integration and health outcomes.
* The health and disability sector has a role in providing quality ethnicity information that enables wider state sector analysis of economic, social and cultural experiences of particular ethnic groups within the New Zealand population.

## Treaty of Waitangi obligations

The Crown recognises the Treaty of Waitangi as the founding document of New Zealand and is committed to fulfilling its obligations as a Treaty partner. The *New Zealand Health Strategy* similarly acknowledges this status of the Treaty, along with the Government’s commitment to it.[[3]](#footnote-3)

To date, the relationship between Māori and the Crown in the health and disability sector has been based on three key principles.

* + - * 1. **Partnership**: working together with iwi, hapū, whānau and Māori communities to develop strategies for Māori health gain and appropriate health and disability services.
        2. **Participation** **at all levels:** involving Māori at all levels of the sector in decision-making, planning, development and delivery of health and disability services.
        3. **Protection and improvement of Māori health status**: working to ensure Māori have at least the same level of health as non-Māori and safeguarding Māori cultural concepts, values and practices.

Providing high-quality ethnicity data will assist in ensuring Government is able to track health trends by ethnicity and effectively monitor its performance to improve health outcomes and achieve health equity. It will also provide Māori with quality information about their health status.

# Ethnicity data context

## Definition of ethnicity

Stats NZ is responsible for the definition of ethnicity across all-of-government. The official definition of ethnicity, contained in the document *Statistical Standard for Ethnicity* (statistical standard) and used by the health and disability sector, is:

“Ethnicity is the ethnic group or groups that people identify with or feel they belong to. Ethnicity is a measure of cultural affiliation, as opposed to race, ancestry, nationality or citizenship. Ethnicity is self-perceived and people can belong to more than one ethnic group.

An ethnic group is made up of people who have some or all of the following characteristics:

* a common proper name
* one or more elements of common culture which need not be specified, but may include religion, customs, or language
* unique community of interests, feelings and actions
* a shared sense of common origins or ancestry, and
* a common geographic origin.”[[4]](#footnote-4)

There are key elements of the definition provided by Stats NZ in the [statistical standard](http://aria.stats.govt.nz/aria/?_ga=2.209798037.1081760066.1617239711-112780126.1590639140#StandardView:uri=http://stats.govt.nz/cms/StatisticalStandard/vv0ovwUoTSSVDhpt) and associated documents that need to be reflected in the health and disability systems and processes covered by these protocols*.* The three key elements are that:

* ethnicity must be self-identified
* people may identify with more than one ethnic group (multiple ethnicities)
* ethnicity may change over time (ethnic mobility).

The protocols operationalise the statistical standard and provide further information that is specifically relevant to the health and disability sector.

## Data quality

The protocols were initially introduced in 2004 and required a standardised process for ethnicity data collection, recording and output across the health and disability sector. More than a decade on from the first release of the protocols, issues with the quality of ethnicity data in different sources persist. Inaccurate or misclassified ethnicity data can impact on health statistics, planning, funding and monitoring.

It is important ethnicity data from the health and disability sector is collected in the same way as data in the Census (collected by Stats NZ). Health statistics are frequently based on the census’ population figures. For example, rates of hospitalisation are calculated by comparing hospital and census-based data to determine proportions of hospitalisations in different populations. The ability to compare data is known as numerator and denominatorconsistency. This consistency allows the comparison of health data by ethnicity where it is collected in different health and disability settings. However, the statistical standard notes that a person may give a different response depending on the context. Where this is acknowledged, a decision on the denominator source needs to be made on a case-by-case basis.

The objective of improving ethnicity data quality is to ensure that when such data is used, it has the same relevance and meaning throughout the health and disability sector. Achieving this goal requires the implementation of a standardised process that is used by all collectors, recorders (including data entry staff, administrators, clerks, health professional interviewers and researchers who use the classification structure to record ethnicity responses) and users of ethnicity data. Each step of the process must be undertaken in a standardised manner. The ethnicity data process includes three discrete steps: collection, recording and output.

Information systems, organisational processes and contract specifications (where appropriate) must ensure that the minimum requirements in the protocols are met at each relevant step. It is recognised some organisations will only collect and record ethnicity data, while other organisations will only output ethnicity data. Each step of the process may be audited for compliance with the protocols and data quality improvements made based on issues identified. Systematic audit tools have been developed for this purpose.[[5]](#footnote-5) Audit activities include feedback, review, education and training.

## Additional or related information

Iwi/hapū, ancestry, country of origin, nationality and religion are not required under these protocols. A collector may wish to request this information for specific purposes.

# Protocols for collecting and confirming ethnicity data

This section details the processes relating to the collection and confirmation of ethnicity data from a respondent. In most cases, ‘asking’ means giving the respondent a form (paper or electronic) to fill out although in some instances it may mean reading out the question, such as over the telephone.

Data collectors in the health and disability sector tend to be administrators, clerks and health professionals. Respondents tend to be patients, clients and members of the health workforce when filling in human resources’ forms. Ethnicity data are also collected in most surveys, along with other demographic information such as age and gender.

**Collection** is to present the standard ethnicity question to a respondent.

**Confirmation** is to present a respondent with their previous ethnicity response for confirmation or correction.

## Protocol requirements for collection

* + - 1. The standard ethnicity question for the health and disability sector is the Statistics New Zealand 2018 Census ethnicity question.
      2. Where a respondent may not be able to fill in a form or questionnaire themselves due to disability, incapacity, being deceased or being a newborn or child, the approach should be adjusted (see 3.3.4 Proxy response).
      3. The respondent must identify their own ethnicity (called self-identification) regardless of collection method – for example, face-to-face contact, use of a form, electronic collection or telephone.
      4. The collector must not guess ethnicity on behalf of the respondent or limit the number of ethnicities given.
      5. Ethnicity may be collected at any time but must be collected at least every three years.
      6. Ethnicity may be confirmed at any time when other personal details such as gender and contact details are also confirmed.

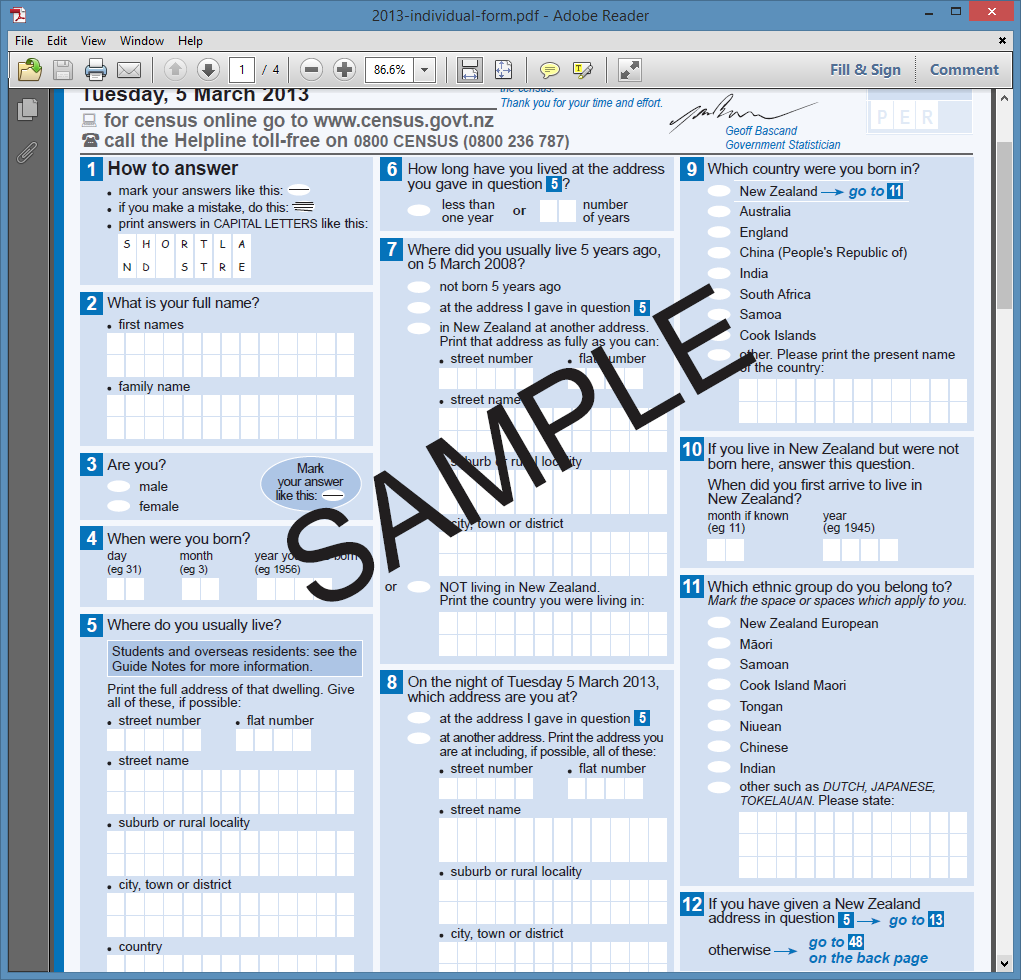
## Standard ethnicity question

The standard ethnicity question for the health and disability sector mirrors the Statistics New Zealand 2018 Census ethnicity question. The ethnicity question has been rigorously tested by Stats NZ to establish the most effective wording, layout and font, and is re‑analysed after every census.

To maintain consistency of responses the following requirements must be met:

* + - 1. Whenever possible, use the actual graphic as shown in Figure 1 when presenting the ethnicity question. The font size, format and dimensions (83 mm x 78 mm) are to remain the same as in Figure 1 where practical. In a few circumstances it is appropriate to increase the size of the graphic, such as in presenting it on a laminated card to be given to respondents in an interview.
      2. Where the actual graphic is not used, the minimum requirements are:
         1. The opening words of the question must be the same, ie, “Which ethnic group do you belong to? Mark the space or spaces that apply to you.”
         2. The listed ethnicities must all be present and in the order shown in Figure 1. No additional categories may be added. It is preferable that the categories are listed vertically.
         3. Any collection mechanism must allow multiple ethnic groups to be selected and must allow multiple ethnic groups to be entered in the ‘other’ section.

Figure : Standard ethnicity question



Source: Statistics New Zealand, 2018 Census

## Process for collecting ethnicity data

When collecting ethnicity data, self-identification must be the process used to identify a respondent’s ethnic group(s). The standard ethnicity question allows the respondent to state as many ethnicities as they feel they identify with.

It is unacceptable for the collector to guess any respondent’s ethnicity or to complete the question on behalf of the respondent based on what they perceive to be the respondent’s physical appearance, name or nationality. It is also unacceptable for a collector to correct what ethnicity a respondent identifies with if they disagree or to ask the respondent to identify a single ethnicity they most identify with (eg, principal ethnicity).

The generic process outlined below describes the basic steps involved in collecting ethnicity in four different situations: self-completion (paper or electronic form/ questionnaire); verbal response, assisted response and proxy response.

### Self-completion

* + - 1. Paper form/questionnaire
         1. Give or send the respondent the form or questionnaire that contains the ethnicity question to complete.
         2. Advise the respondent (in person or by letter) that:
* additional information about ethnicity is available if required[[6]](#footnote-6)
* where appropriate they can have access to an interpreter.
  + - * 1. Collect the form or questionnaire.
        2. Check that the ethnicity question has been completed on the form or questionnaire.
        3. If the question has not been filled in, check the respondent has not accidentally omitted it. If the respondent doesn’t wish to state their ethnicity or ethnicities, they should be asked to confirm whether or not they have left the question intentionally blank.
      1. Electronic collection (eg, internet, portal or tablet)
         1. Advise the respondent onscreen or within a help tab that:
* links to information about ethnicity on the Stats NZ and Ministry of Health websites are available if required
* where appropriate they can have access to an interpreter or links to where information about ethnicity is held in other languages.
  + - * 1. The standard ethnicity question must be used. A button or similar selection option for each response is to be provided. The ability to select multiple responses must be provided.
        2. The question format must include the text of the standard ethnicity question:

Which ethnic group do you belong to? Mark the space or spaces which apply to you.

* New Zealand European
* Māori
* Samoan
* Cook Islands Māori
* Tongan
* Niuean
* Chinese
* Indian
* Other (Please state, eg, Dutch, Japanese, Tokelauan).
  + - * 1. The ‘Other’ response should have a visible area for entry of other ethnic groups so respondents are aware they can enter information here. If ‘Other’ is selected, the respondent must be allowed to enter one or more ethnic groups. Lists of frequently identified ethnic groups may be used but the respondent must not be limited to only the groups in the list.
        2. If the respondent does not enter any ethnicity, the information system should prompt them to enter it and offer the following alternative responses:
* ‘I don’t know my ethnicity’
* ‘I do not want to state my ethnicity’.

The information system should not allow this question to be left blank.

### Verbal response

If you are required to collect ethnicity data by relaying the information to the respondent verbally and completing the form yourself (eg, by telephone), identify a standard place in the call where the ethnicity question is to be asked. This place is most likely to be at the beginning or end of the call when other demographic information such as name, address, gender and age is collected.

At the start of the conversation, you should explain why you are phoning/collecting this data.

When asking the ethnicity question, the interviewer should state: “I am going to read out a list of ethnic groups. Can you tell me which ethnic group or groups you belong to:

* New Zealand European?
* Māori?
* Samoan?
* Cook Islands Māori?
* Tongan?
* Niuean?
* Chinese?
* Indian?
* Another ethnic group such as Dutch, Japanese or Tokelauan? Please say what it is.”

The interviewer should read out each of the categories and wait for a yes/no answer to each. When an answer is given, the interviewer continues asking the rest of the list until it is completed.

Asking the question in this way allows for more than one ethnicity to be selected. It also allows reporting of all other ethnic groups chosen by the person in the ‘Another ethnic group’ category. It facilitates self-identification and allows the person to pick one or a number of categories that they identify with. This method reduces interviewer bias.[[7]](#footnote-7)

### Assisted response

Where the respondent has a disability that will hinder their ability to complete the ethnicity question, an appropriate aid should be provided.

### Proxy response

Where the respondent is unable to complete the ethnicity question them self, it is desirable to collect ethnicity data using a proxy response. The method to follow in three different circumstances is described below.

#### a) Incapacity

If the respondent is incapable of completing the ethnicity question, where possible the nominee or next of kin should answer the ethnicity question on behalf of the respondent. If there is no one accompanying the respondent, undertake one of these:

* Locate the next of kin and ask them to provide a proxy response.
* Wait until the respondent is able to complete the ethnicity question.

#### b) Deceased

Where the respondent is deceased, the standard question should be presented to the next of kin to provide a proxy response about the respondent’s ethnicity.

#### c) Newborns and children

Where the respondents are newborns or children, the parent/guardian(s) must always be given the opportunity to complete the standard ethnicity question. Systems must not, for example, default ethnicity to that of the mother (eg, by transfer from the maternal record). There should be sufficient space on the form for completion of the standard ethnicity question.

As noted in the statistical standard, there is no legal or recommended age at which a child can respond on their own behalf. When children are capable of understanding the concept of ethnicity, they should be given the opportunity to complete the question themselves. The appropriate age for such understanding is a matter of judgement.

## Process for confirming ethnicity data

Confirming ethnicity data means printing (or reading) out all recorded variables, stating that this is the ethnicity information recorded currently for a respondent, and asking the respondent to confirm their ethnicity data.

If respondents alter or add detail to their response during confirmation, judgement should be used as to whether they should be asked to complete the standard ethnicity question or whether to update the system directly from their response. It may be possible to design forms used to confirm demographic details with a printout of the details and include a standard ethnicity question with instructions to complete this if the current details are incorrect.

The classification descriptions do not always match a person’s response, for example a response of Okinawan is classified to level 4 code 44211 Japanese or level 2 code 44 Other Asian. Where systems record only the classified ethnicity codes and their descriptions, a note should be added when presenting the recorded ethnicities for confirmation that says:

‘Your ethnicity may not be recorded as you provided it because we group some ethnicity responses together using the Stats NZ classifications system.’

If ethnicity has already been noted to be incorrect, refer to section 3.5 Process for correcting ethnicity data.

## Process for correcting ethnicity data

The requirements of the *Health Information Privacy Code 1994*[[8]](#footnote-8) apply to ethnicity data.

* Respondents have the right to know what ethnicity data is recorded about them. Respondents must be able to provide the correct data if it is incorrectly recorded.
* Data collectors must make sure they have accurate data and to correct that data if it is determined not to be accurate.

Where ethnicity data already held about a respondent is noted to be incorrect by:

* the respondent – it is best practice for the ethnicity to be collected from the respondent as outlined above and recorded correctly
* the user of the data – it is best practice to collect the data from the respondent as outlined above (the user may correct the ethnicity data if the ethnicity response is known for example, where there is a data entry error).

## Frequency of collecting and confirming ethnicity data

Self-identification means people can change their ethnicity over time and report it differently in different contexts. In addition, there are known issues with ethnicity data quality that mean a person’s previous response may not have been correctly collected or recorded. To ensure recorded ethnicity data is of the highest quality, respondents must be regularly given the opportunity to supply and confirm their ethnicity response.

The following points outline guidance on the frequency of collection and confirmation:

* + - 1. Ethnicity data must be collected during the first interaction with the health sector or agency, or where there is no available ethnicity data for a respondent.
      2. Ethnicity data may be collected at any time and must be collected at least every three years.
      3. Ethnicity data must be collected if the ethnicity already held for a respondent is currently coded as any of the following: Not stated (99), Not elsewhere classified (nec) or Not further defined (nfd).
      4. Ethnicity data may be confirmed at any time. Frequency of confirmation is up to the collector’s discretion. A health service may choose to collect all demographic information, including ethnicity, more frequently. It may be appropriate to confirm ethnicity data at every interaction with a health service, however if a respondent is presenting frequently to a health service this may not be appropriate.

# Protocols for classifying, recording and storing ethnicity data

This section details how ethnicity data are classified and recorded once they have been provided by a respondent. The recording process uses the classification structure to identify the appropriate codes and then stores the identified codes. Where possible, information systems should allow collectors to enter ethnicity directly as provided by respondents and automatically identify the code to record it without manual classification.

The recording process in the health and disability sector uses the Stats NZ’s Ethnicity classification structure. Stats NZ reviews the classification categories periodically, for example after the census. Mapping is provided by Stats NZ when labels or codes change between classification versions.

See Stats NZ’s website for the current version of the [Statistical Standard, Ethnicity](http://aria.stats.govt.nz/aria/?_ga=2.209798037.1081760066.1617239711-112780126.1590639140#StandardView:uri=http://stats.govt.nz/cms/StatisticalStandard/vv0ovwUoTSSVDhpt). Protocol requirements for recording.

* + - 1. The Stats NZ Ethnicity New Zealand Standard Classification 2005 structure must be used to code ethnicity data.
      2. Ethnicity data must be recorded at level 4 (the most detailed level of the classification).
      3. Information systems must be capable of recording up to six responses.
      4. Where a respondent reports more than six ethnicities, the Stats NZ standard process for reducing multiple ethnic responses must be followed.
      5. Where a respondent reports multiple ethnicities, a ‘principal ethnicity’ must not be recorded.
      6. ‘New Zealander’ and like responses should be coded to the ‘New Zealander’ code at level 4.

## Classification structure

A classification structure is a way to group a set of related categories in a meaningful, systematic and standard format. Some important principles of classification are to use:

* mutually exclusive categories – that is, every response will fit into only one category in the classification
* a complete list of possible responses
* a framework to show how to classify responses.

A classification has a structured system and contains rules for aggregating data. Where they relate to an evolving concept like ethnicity, classifications are periodically updated so they reflect the contemporary situation as well as allowing comparisons over time. Stats NZ is responsible for oversight of the categories described in the classification

The Stats NZ’s Ethnicity New Zealand Standard Classification is a hierarchical structure with four levels. The minimum requirement in the protocols is recording at the greatest level of detail at level 4. Level 4 contains more than 231 codes. This includes detailed ethnic group codes, the ‘Other’ code and residual category codes (see below).

The Stats NZ code system starts with a single digit at level 1. Further digits are added with each move to a more detailed level, thereby increasing granularity of information. Each more detailed level can be mapped up or aggregated to a higher level.

Figure : Ethnicity classification level relationships (Asian example)

Figure 2: Ethnicity classification level relationships (Asian example)

## How to record ethnicity

### Determining the right code

Match the response with the ethnicity description and note the associated code. All the ethnicities printed on the standard question have the same description on their equivalent level 4 code. Where a respondent identifies with ‘Other (such as Dutch, Japanese, Tokelauan)’, the response should be matched with the description of the classification structure at level 4 and the associated level 4 code recorded.

### Multiple responses

Respondents are able to identify as many ethnicities as they wish during collection of ethnicity data. Information systems must be able to classify and record up to six ethnicities as a minimum.

Where the respondent identifies more than six ethnicities, the method determined by Stats NZ (see Appendix A) should be used to reduce the number to six.

Recording up to six ethnicities means that level 1 ethnic groups will not be lost when reducing responses with more than six ethnicities.

Where a respondent reports multiple ethnicities, it is not appropriate to prioritise multiple ethnicities during recording or to ask respondents to choose a principal or primary ethnicity.

Prioritisation is only appropriate on output when using the ethnicity data for analysis and reporting (see ‘5.5.2 Prioritised output‘).

In situations where systems are not able to record up to six ethnicities and reduction of multiple responses to three recorded ethnicities is required, it is recommended that the prioritisation for output method is applied (as described in the Prioritised output section). Health information systems should not use the Stats NZ random method of reduction when reducing a response to less than six ethnicities because ethnic groups that have specific health needs may be lost in the process.

* Align responses coded at level 4 with their corresponding level 2 codes (first two digits).
* Prioritise using the level 2 prioritisation table.[[9]](#footnote-9)
* Once the three prioritised ethnicities are determined, these should be recorded at the highest level of detail (level 4).

### Process for responses not matching standard classification descriptions

Level 4 classification is very detailed and most responses will be able to be classified. However, if a response is not in the classification structure, a decision must be made as to which is the most appropriate category for the response to be coded to.

The coding tool provided by Stats NZ (codefile) should be used to assist in finding appropriate codes. These should be used wherever possible to ensure consistent coding by all collectors.

* Stats NZ Classification search tool <http://aria.stats.govt.nz/aria/#ClassificationView:uri=http://stats.govt.nz/cms/ClassificationVersion/YVqOcFHSlguKkT17>

Most sections of the classification contain ‘Not elsewhere classified (nec)’ categories that are used to code responses that do not match the standard description but can be identified as belonging to that part of the classification at level 4. For example, a response of ‘Bosnian’ should be coded to ‘12999 – European nec’.

Where responses are vague, it may be possible to classify them to a ‘Not further defined (nfd)’ category. For example, a response of ‘European’ should be coded as ‘12000 – Other European nfd’.

The Stats NZ standard contains advice on coding:

* multiple-worded responses like ‘Fijian Indian’ and ‘Malaysian Chinese’ that are one ethnic group
* hyphenated or linked responses like ‘Tongan-Māori’ or ‘French/Austrian’ that need to be classified as two responses
* where the response is an iwi, country or religion.

### ‘New Zealander’ responses

In the health and disability sector when a respondent has identified their ethnicity as ‘New Zealander’, ‘Kiwi’ or a variation of this response, this has historically been recorded as ‘New Zealand European’ (code 11) as outlined in the protocols and the supplementary notes 2009.

With the move to level 4 coding, this will no longer occur as ‘New Zealander’ has a separate level 4 code (code 61118). However, ‘New Zealander’ should continue to be aggregated to ‘New Zealand European’ in the process of output (see section 5.4) to maintain time series in the sector. It may also be output to the ‘Other’ category where this will enable comparability or maintain time series with a dataset.

### Fijian Indian

There have been data quality issues noted with the collection, classification and recording of ‘Fijian Indian’. The Ethnicity New Zealand Standard Classification codes ‘Fijian Indian’ as level 4 code 43112 (which aggregates at level 1 output to ‘Asian’). Some respondents and some providers have chosen to alter collection forms or allow respondents to select ‘Fijian’ and ‘Indian’ separately. This creates two codes – ‘Fijian 36111 (level 1 Pacific Peoples)’ and ‘Indian 43100 (level 1 Asian)’ – with prioritised output this aggregates to ‘level 1 Pacific Peoples’. This has implications for funding formulae and health status monitoring for both Pacific and Asian populations. Respondents identifying as ‘Fijian Indian’ must be coded 43112.

### Residual codes

The residual codes, a series of codes beginning with 9, are used to record a meaningful description of some responses or outcomes of the collection process.

Table : Residual codes

|  |  |
| --- | --- |
| **Code** | **Description** |
| 94444 | Don’t know |
| 95555 | Refused to answer |
| 96666 | Repeated value |
| 97777 | Response unidentifiable |
| 98888 | Response outside scope |
| 99999 | Not stated |

A copy of the Stats NZ standard definitions on use of residual codes can be found in the appendix (see ‘Residual categories’). These coding guidelines are given to ensure consistency between collections. There are a number of ethnic groups that are multiple-worded responses but are one ethnic group. Some common examples are given here.

* Fijian Indian
* Turkish Cypriot
* Cook Islands Maori
* French Canadian
* Malaysian Chinese
* American European
* South African European.

There are responses that may be hyphenated or linked in some way, or written without linkage, that need to be classified as two responses. For example:

* Polish-Hungarian
* Tongan-Māori
* French/Austrian
* Australian/Lebanese
* Chinese New Zealander
* SerboCroatian.

There have been data quality issues noted with the use of the ‘not stated’ code (99 level 2; 99999 level 4). Historically this code has been used where data collectors have not been able to easily determine an appropriate ethnicity category or there have been issues with data transfer or extraction between systems. This code has also been used to populate blank data fields where ethnicity has not been collected but complete data is required. Systems where there is a high level of code 99 use (for example greater than 1 percent) should be examined for data quality issues and respondent’s ethnicity data collected. Coding at level 4 ethnicity should virtually eliminate the need for the ‘not stated’ coding.

## Coding non-ethnicity responses

### Iwi

An iwi response to an ethnicity question is coded to ‘Māori’. ‘Iwi’ responses may be collected by some providers but recording, classification and storage of iwi data isn’t covered here. For further information on collecting iwi data, refer to the *Iwi Statistical Standard.*[[10]](#footnote-10)

### Country

A country response is coded to an appropriate ethnic group term – for example, ‘Korea’ is coded to ‘Korean’.

### Religion

Religious responses to the ethnicity question indicating an ethnic group are coded to the specific category in the classification. For example, ‘Jewish’ and ‘Sikh’ have separate categories at the most detailed level. Religious responses which are not an ethnic group – for example, ‘Muslim’, are not coded to an ethnic group but to ‘response outside scope’.

# Protocols for output of ethnicity data

Standard output provides comparable data about groups of interest for monitoring, planning, and the development and evaluation of policy for health care provision and the health status of New Zealanders. This section covers the ways in which ethnicity data can be output for uses such as analysis, funding formulae, health outcome evaluations or service access profiles. In output, there is no change to any of the recorded responses, although some aggregation is likely to occur in the reporting.

Data users tend to be researchers or analysts in primary health organisations, community providers, Māori or Pacific providers, district health boards (DHBs), non-government organisations, the Ministry of Health, the Accident Compensation Corporation and other government agencies. Output of ethnicity data may be flexible in terms of the level of detail required and the comparator categories presented. Standard categories are provided by the Stats NZ’s standard classification structure as outlined in section 4. The protocols require classification and recording of ethnicity data at level 4. However, users may wish to output the data at a higher level of aggregation as indicated in the classification (level 1, level 2 or level 3). Other outputs may be used in health. Any output requires clear description of the method and categories used, and users of the data need to be aware of the limitations of any method used.

Sometimes ethnicity data is transferred from one system to another. For example, DHBs provide ethnicity data to national systems like the National Health Index (NHI). In most cases, this process is a simple transfer of recorded ethnicity. However, if more than six ethnicities at level 4 are being stored, the rules for classifying and recording must be followed.

## Protocol requirements for output

* + - 1. The same output method and aggregate categories must be used for both numerator and denominator datasets.
      2. ‘New Zealander’ type responses should continue to be aggregated to ‘New Zealand European’ in the process of output to maintain time series in the sector. They may also be included in the output to the ‘Other’ category where this will enable comparability or maintain time series with a dataset.
      3. Where there are multiple ethnicities for a respondent, one of the following three methods of output must be used:
         1. total response (overlapping)
         2. prioritised (the most common form of output in the health and disability sector)
         3. sole/combination.
      4. The method used must be described or noted along with any analysis. Standard descriptions are available in the statistical standard.
      5. Up to six ethnicities at level 4 must be reported to Ministry of Health National Systems.

## Stats NZ output aggregation groups

Users may choose to output ethnicity data at level 4. However, for many purposes in the health and disability sector, ethnicity data may be aggregated for output. Decisions about aggregation should take into account the balance between providing detailed ethnicity information and practical considerations such as available denominators and potential ability to identify with small numbers. Level 4 data can be aggregated within the Stats NZ’s classification structure to the appropriate level for the user’s purpose.

Codes can be aggregated by removing the last digits – from a five-digit code at level 4 (eg, 41111 Filipino), a three-digit code at level 3 (eg, 411 Filipino), a two-digit code at level 2 (eg, 41 Southeast Asian) and a one-digit code at level 1 (4 Asian) (refer to Figure 2). It is important the same aggregation is used for both numerators and denominators, and the categories described in any outputs.

## Non-standard output groupings

In the health and disability sector, a ‘super-aggregate’ level 0 grouping is sometimes used. This is not an aggregation group under the Stats NZ’s classification. There has been variability in the application of this level 0 category. For specific purposes particular super-aggregation categories may be preferred. For example Māori, Pacific Peoples, Asian, European/Other; or Māori, Pacific Peoples, European/Other. Where appropriate and practical, output is recommended at level 1 rather than level 0 (Māori, Pacific Peoples, Asian, Middle Eastern, Latin American and African (MELAA), European and Other) unless the subgroupings are too small for analysis or identify respondents.

The user may wish to use alternate non-standard Stats NZ aggregate grouping in order to make comparisons between populations. The appropriate comparison population will depend on the purpose for which the user is making the comparison. Examples of common comparison groupings in health include:

* Māori/Non-Māori (this is a Treaty of Waitangi-based comparison)
* Māori/Pacific Peoples/Non-Māori, Non-Pacific (this is a comparison used where inequalities for Pacific populations obscure inequalities for Māori, particularly in areas with high Pacific populations or in specific conditions)
* Māori/Total Population
* Māori/New Zealand European/Other
* Māori/Pacific Peoples/Chinese/Indian/Other (for some specific health conditions where inequalities for Asian sub-populations are high enough to warrant specific comparison, for example cardiovascular disease and gestational diabetes).

It is important the same aggregation is used for both numerators and denominators, and the categories are described in any outputs.

## Output for ‘New Zealander’

With the move to level 4 recording, ‘New Zealander’ responses will be recorded as code 61118. For the purposes of output however, it is recommended users continue to aggregate to ‘New Zealand European’ in the process of aggregation output (code 1 at level 1, code 11 at level 2) to maintain time series comparability.

If a collection currently outputs New Zealander to another category (eg, ‘Other’), the user may wish to continue this practice to maintain time series.

Description of the output choice for New Zealander should be included in the data notes in any reporting.

## Considerations for output of multiple ethnicity

There are a number of ways that multiple ethnicity responses can be output for analysis purposes. The three standard forms of output are described below.

These protocols require that one of these three forms is used for output, depending on which form of output is the most appropriate for the purposes of the data being reported. They also require that the form of output used in any particular table, graph or written analysis is made clear to readers.

All output methods have limitations that should be considered in analysis and reporting. For example, output methods generally include some level of aggregation and grouping which means ethnicity data does not strictly align with how respondents’ self-identified.

### Total response (overlapping) output

In total response output, each respondent is counted in each of the ethnic groups they reported. For example, where ethnicity is output at level 1, the respondent is counted once in each of the broad level 1 categories they identified with. Because individuals who indicate more than one ethnic group are counted more than once, the sum of the ethnic group populations will exceed the total population of New Zealand.

This form of output can be a useful option because it has the potential to represent people who do not identify with any given ethnic group, depending on the level of detail reported. In many cases in the health sector, total response output is reported at level 1.

Conversely, the approach has limitations in some situations in the health and disability sector. For example, it can create complexities in the distribution of funding based on population numbers or in monitoring changes in the ethnic composition of a population. In addition, it can create issues in the interpretation of data reported by ethnic groupings, where comparisons between groups include overlapping data. Further guidance on total response can be found in the statistical standard.

### Prioritised output

One of the main criteria stipulated in the definition of ethnicity is that a person can belong to more than one ethnic group. The ethnicity question caters for multiple responses. However, the question does not ask people to indicate the ethnic group with which they identify the most strongly.

In prioritised output, each respondent is allocated to a single ethnic group using the prioritisation tables below. There are prioritisation orders for both level 1 and level 2 of the classification. The aim of prioritisation is to ensure that where some need exists to assign people to a single ethnic group, ethnic groups of policy importance or of small size, are not swamped by the New Zealand European ethnic group. Prioritisation is a reduction process for output and analysis purposes and does not assume this is the ethnic group that a respondent identifies most strongly with.

For example, if a data provider has indicated four ethnicities and these have been aggregated to level 2 as 40 – Asian, 21 – Māori, 51 – Middle Eastern and 11 – New Zealand European, the prioritised responses would be:

* + - 1. 21 – Māori
      2. 40 – Asian
      3. 51 – Middle Eastern
      4. 11 – New Zealand European.

The following tables are available on <http://www.health.govt.nz/nz-health-statistics/data-references/code-tables/common-code-tables/ethnicity-code-tables>.

Table : Prioritisation for level 1 codes

|  |  |  |
| --- | --- | --- |
| **Priority order** | **Ethnic group code (Level 1)** | **Ethnic group code description** |
| 1 | 2 | Māori |
| 2 | 3 | Pacific Peoples |
| 3 | 4 | Asian |
| 4 | 5 | Middle Eastern/Latin American/African (MELAA) |
| 5 | 6 | Other Ethnicity |
| 6 | 1 | European |
| 9 | 9 | Residual Categories |

Table : Prioritisation for level 2 codes

|  |  |  |
| --- | --- | --- |
| **Priority order** | **Ethnic group code (Level 2)** | **Ethnic group code description** |
| 1 | 21 | Māori |
| 2 | 35 | Tokelauan |
| 3 | 36 | Fijian |
| 4 | 34 | Niuean |
| 5 | 33 | Tongan |
| 6 | 32 | Cook Island Māori |
| 7 | 31 | Samoan |
| 8 | 37 | Other Pacific Peoples |
| 9 | 30 | Pacific Peoples not further defined |
| 10 | 41 | Southeast Asian |
| 11 | 43 | Indian |
| 12 | 42 | Chinese |
| 13 | 44 | Other Asian |
| 14 | 40 | Asian not further defined |
| 15 | 52 | Latin American |
| 16 | 53 | African |
| 17 | 51 | Middle Eastern |
| 18 | 61 | Other Ethnicity |
| 20 | 12 | Other European |
| 21 | 10 | European not further defined |
| 22 | 11 | New Zealand European |
| 94 | 94 | Don’t know |
| 95 | 95 | Refused to answer |
| 97 | 97 | Response unidentifiable |
| 99 | 99 | Not stated |

This output type is the one most frequently used in Ministry of Health statistics and is also widely used in the health and disability sector for funding calculations, monitoring changes in the ethnic composition of service utilisation and so on. It produces data that is easy to work with, as each individual appears only once. This means the sum of the ethnic group populations will add up to the total New Zealand population. Denominator data must also be prioritised to ensure numerator denominator consistency.

Limitations with prioritised output include that it places people in specific ethnic groups (high priority because of policy importance), which simplifies yet biases the resulting statistics as it over-represents some groups at the expense of others in ethnic group counts because of the order of prioritisation. It is also an externally applied single ethnicity which is inconsistent with the concept of self-identification including multiple ethnicities and should therefore not be used in processes of data collection or recording.

### Sole/combination output

The sole/combination form of output (also referred to as single/combination) is rarely used in the health and disability sector. For completeness, this output has sole ethnic categories for respondents who report only one ethnic group and combination categories for respondents who state more than one ethnic group. Examples of combination categories are Samoan/Tongan, New Zealand European/Māori and Māori/Pacific Peoples.

The standard Stats NZ single/combination minimum output has nine groups: European, Māori, Pacific Peoples, Asian, Other, Māori/ European, Māori/Pacific Peoples, ‘Two groups Not Elsewhere Identified’ or the category titled ‘Three groups’.

Limitations with sole/combination output include that it is relatively uncommon as an output method. In addition, some combination categories (eg, Two groups Not Elsewhere Identified) mean some ethnicities will not be identifiable from the data. Further guidance on sole/combination output can be found in the statistical standard*.* Sole/combination reporting at levels other than level 4 simplifies the results by placing some groups in aggregate categories.

## Clear definition of output method

The aggregation level, comparison populations and method used for output of ethnicity analysis needs to be defined clearly for the user or reader in the data notes provided with any reporting. If different methods of analysing ethnicity at the output stage are used, what method was used and how to interpret the results should be made explicit. Caveats and explanations should also be provided.

Below are some suggested examples to follow in two different contexts.

* Examples of how to include clear output information in titles:
* *Male Life Expectancy (Prioritised Māori)*
* *Hospitalisation Rates by Ethnic Group (Total Response) and Gender*
* Examples of how to include clear output information in the source or as a note:

For total response (overlapping) analysis:

‘The ethnic data in this table allow for up to three responses per person. Where a person reported more than one ethnic group, that individual has been counted in each applicable group. Totals therefore do not add up to 100 percent.’

# History of changes

This document reflects updated and revised ethnicity data protocols for the health and disability sector*.* It intends to more closely align health and disability sector processes and systems with the whole-of-government ethnicity data standard, as well as provide additional guidance to support high-quality ethnicity data. Table 4 outlines the changes to the protocols since their release in 2004, and the current alignment between the protocols and the statistical standard. Some further detail on the specific areas where the protocols do not fully align with the statistical standard is provided in the text below the table.

Table : Protocol revisions and alignment with Statistical Standard for Ethnicity 2005

| **Area** | **Stats NZ *Statistical Standard for Ethnicity*** | **Ministry of Health *Ethnicity Data Protocols for the Health and Disability Sector*** | | |
| --- | --- | --- | --- | --- |
| **2005 review 2009** | **2004** | **2009 revision** | **2016 revision** |
| Applies to | Whole-of-government administrative collections | Health and disability sector | Health and disability sector | Health and disability sector |
| Collection | Self-identified  Standard census question | Self-identified  Standard census question | Self-identified  Standard census question | Self-identified  Standard census question |
| Process of collection | Self-administered forms  Internet  Interviewer administered  Telephone interviewing Proxy response | Self-completion (form/ questionnaire)  Telephone  Proxy response | Self-completion (form/ questionnaire)  Telephone  Proxy response | Self-completion (form/ questionnaire)  Electronic (including online/ internet/portal)  Verbal assisted response  Proxy response |
| Electronic/ online collection of ‘other’ ethnicities | Allows an exemption process for collection where there is no facility to record free text ‘other’ categories (an identified list of level 2–4 ethnicity categories) | No guidance | No guidance | Response to standard question ‘other’ to be recorded directly and either manually entered or electronically converted into the correct code |
| Frequency of collection | Census  No guidance for other collections | No guidance | No guidance | 3 yearly |
| Process for collection | No guidance | No guidance | No guidance | Guidance for collection, confirmation and correction |
| Classification structure | Four levels  ETHNIC05 classification changes  Recommend recording at level 4, minimum level 2 | Five levels  ETHNIC classification changes  Recording minimum level 2 | Five levels  ETHNIC05 classification changes  Recording minimum level 2 | Five levels  ETHNIC05 classification changes  Recording minimum level 4 |
| Recording multiple ethnicities | Recommend capture of up to six ethnicities, minimum up to three ethnicities | Minimum up to three ethnicities | Minimum up to three ethnicities | Minimum up to six ethnicities |
| Recording and output of ‘New Zealander’ | New category code 61 (61118)  Advised to output to maintain time series | To code 11 (New Zealand European) | To code 11 (New Zealand European) | Level 4 code 61118  Output to maintain time series |
| Output groupings | Aggregate levels 1–4 | Aggregate levels 1–4 plus additional level 0 | Aggregate levels 1–4 plus additional level 0 | Aggregate levels 1–4 plus additional level 0  Or other non-standard output groupings as determined by the user |
| Output method | Total response  Sole combination | Total response  Prioritised  Sole combination | Total response  Prioritised  Sole combination | Total response  Prioritised  Sole combination |
| Method for reducing ethnicities if more than six | Random reduction manual method | Prioritise to level 2 and reduce if possible, prioritise and aggregate to level 1 if necessary to avoid losing a prioritised ethnic group | Prioritise to level 2 and reduce if possible, prioritise and aggregate to level 1 if necessary to avoid losing a prioritised ethnic group | Random reduction method if more than six ethnicities |
| Method of reducing ethnicities if system can only store three (transition period) |  |  |  | Use level 2 priority list, store three prioritised responses at most detailed level (level 4) |

The protocols align with the statistical standardexcept in the following respects (in bold in the table above):

* + - * 1. The *Statistical Standard* recommends recording of ethnicity data at level 4 (the most detailed level possible) and up to six ethnicities, but does not require it. The health protocols require ethnicity data to be coded at level 4 and up to six ethnicities.
        2. While the *Statistical Standard* does not recommend the prioritisation method for output of ethnicity data, the protocols include prioritisation as an output method and it is commonly used. Prioritisation is maintained in the revised protocols.
        3. The *Statistical Standard* only has code levels 1-4. The revised protocols allow for the use of the health and disability sector of the super-aggregate code level 0 where this is appropriate, however it is recommended that routine data is reported at level 1. Alternate non-standard output groupings may also be used as determined by the user.

Note: Previously when the minimum multiple ethnicity requirement was recording up to three ethnicities, the method for reducing more than three ethnicities was prioritisation rather than the random method outlined in the statistical standard. This was so policy-prioritised ethnicities were not removed. The minimum requirements in the current protocols are for up to six ethnicities to be recorded, therefore it is unlikely that reduction will be routinely required and reducing to six will not lose any level 1 groupings. Where this is required, the protocols now align with the statistical standard and recommend random manual reduction.

Appendix A

**Note:** The following information has been extracted from Statistical Standard for Ethnicity 2005 at date of publication. For the most recent version of this information, refer to [*http://aria.stats.govt.nz/aria/#StandardView:uri=http://stats.govt.nz/cms/StatisticalStandard/vv0ovwUoTSSVDhpt*](http://aria.stats.govt.nz/aria/#StandardView:uri=http://stats.govt.nz/cms/StatisticalStandard/vv0ovwUoTSSVDhpt).

Reducing multiple ethnic responses, manual methodology

1 Method for recording six ethnicity responses

This methodology paper is a technical paper for the development of software systems that support the inputting of large numbers of responses in surveys and administrative data sets. It outlines the treatment of responses where the number of ethnic groups given by an individual exceeds the number being output. Scenarios are described for reducing the number of multiple responses to six per individual, and to three responses, and examples are given of each.

If there are more than six responses per individual, then a random method for reducing the number of responses selects the six ethnicities to be retained. This manual method mirrors the software application method outlined in Appendix 2 in the link above.

To make your selection random, use a random number chart and methodically assign a number by either choosing a column or row to follow. After assigning the random numbers choose the lowest number as the response to be removed. This is explained fully in the method below.

Every level 1 ethnic group category that is represented by an individual’s ethnicities must be represented in the final selection of responses. All level 1 ethnicity categories will be retained when the number of responses is reduced to six, as there are six categories at level 1.

Responses which would be coded to a residual category are removed first. For example, a response of vegetarian would be coded to the residual category 98888 response outside scope and would be the first response removed. If there are still more than six ethnicities then identify the level 1 categories they belong to.

Retain the responses from the level 1 categories that have just one ethnicity response belonging to them. All responses with the same first digit belong in the same level 1 category.

The level 1 categories that are represented by more than one ethnicity response are selected to reduce the number of responses through a random method. At least one ethnicity response representing each level 1 category is retained. Randomly select a level 1 category with more than one response. Do this by assigning each level 1 category a random number from a chart and select the lowest random number. This is the category from which an ethnicity will be selected to be removed. Next, randomly remove one response from the level 1 category selected. Do this by assigning each ethnicity in this category a random number and then remove the ethnicity with the lowest random number.

If this reduces the number of ethnicities to six then the random selection procedure can stop as the maximum number of responses has been retained. Otherwise, repeat this process until six responses remain.

The final selection must meet the requirement of no more than six ethnicities for processing and also retain information at level 1 of the classification for ethnicity.

2 Example of reducing to six responses

An individual’s responses are French, Niuean, Cambodian, Vietnamese, English, Algerian and New Zealander.

There are no residual categories to remove.

* Classifying each ethnicity to their respective level one category has the following result:
* French and English are classified within the level 1 European category.
* Niuean is classified within the level 1 Pacific Peoples category.
* Cambodian and Vietnamese are classified within the level 1 Asian category.
* Algerian is classified within the level 1 Middle Eastern/Latin American/African (MELAA) category.
* New Zealander is classified within the level 1 Other Ethnicity category.

For three of the level 1 categories there is only one response given and these responses must be retained. They are Niuean, Algerian and New Zealander. That leaves two level 1 categories with more than one response from which to select the remaining responses to be retained.

Assign each level 1 category a random number. In this example, European is assigned 393 and Asian is assigned 214. The Asian category has the lowest random number and is the category from which an ethnicity will be selected to be removed.

Assign each ethnicity in the Asian category a random number: Cambodian is assigned 149 and Vietnamese is assigned 613. Cambodian has the lowest random number and so this response is removed.

The six ethnicities to be retained from the given responses are:

* French and English within the level 1 European category.
* Niuean within the level 1 Pacific category.
* Vietnamese within the level 1 Asian category.
* Algerian within the level 1 MELAA category.
* New Zealander within the level 1 Other Ethnicity category.

This selection meets the requirement of six ethnicities for processing and retains all the level 1 ethnicity information given by the individual.

Coding multiple worded responses

The following is an extract from the statistical standard.

These coding guidelines are given to ensure consistency between collections. There are a number of ethnic groups that are multiple-worded responses but are one ethnic group. Some common examples are given here.

* Fijian Indian
* Turkish Cypriot
* Cook Islands Maori
* French Canadian
* Malaysian Chinese
* American European
* South African European.

There are responses that may be hyphenated or linked in some way, or written without linkage, that need to be classified as two responses. For example:

* Polish-Hungarian
* Tongan-Māori
* French/Austrian
* Australian/Lebanese
* Chinese New Zealander
* SerboCroatian.

Residual categories

The following is an extract from the statistical standard.

Table : Definitions for Residual codes

|  |  |  |
| --- | --- | --- |
| **Code** | **Description** | **Definition** |
| 94444 | Don’t know | The use of this category is necessary when the respondent is unsure of their ethnic group in an interviewer-administered survey (ie, asked verbally) or writes this in as a response. |
| 95555 | Refused to answer | This category is only used when it is known that the respondent has intentionally chosen not to respond to the question or wishes their objection to the question to be recorded. Its use is most applicable in face-to-face or telephone interviews, but may be used in self-completed questionnaires if the respondent has clearly indicated they refuse or object to answering the question. |
| 96666 | Repeated value | It is used when a respondent has given two responses that have the same code. This may be two written responses, or one tick box response and one written response. For example, someone may tick the New Zealand European tick box and write in New Zealand European. |
| 97777 | Response unidentifiable | This category is used when there is a response given, but is illegible, or it is unclear what the meaning or intent of the response is. This most commonly occurs when the response being classified contains insufficient detail, is ambiguous or vague. |
| 98888 | Response outside scope | This category is used for responses that are positively identified, that is, the meaning and the intent are clear but fall outside the scope of the classification/topic as defined in the standard. For example, a response of ‘vegetarian’ falls outside the scope of the ethnicity classification. |
| 99999 | Not stated | This category is only used where a respondent has not given any response to the question asked in a self-administered questionnaire, that is, it is solely for non-response. |

Appendix B

Revision history

|  |  |
| --- | --- |
| **Version updated** | **Updates** |
| April 2021 | The following updates have been included:   * references to census 2013 ethnicity question changed to census 2018 * new links included for all Stats NZ’s standards and classification website pages * inclusion of links to Stats NZ’s website for mapping details between Ethnicity classification versions * changes to reflect latest version of the Ethnicity New Zealand Standard Classification 2005 V2.1.0  |  |  |  |  | | --- | --- | --- | --- | | **Code** | **Old label** | **New label** | **Version updated** | | 12934 | Gypsy | Romani | V2.1.0 (18/06/2020) | | 44411 | Afghani | Afghan | V2.1.0 (18/06/2020) | | 44413 | Nepalese | Nepali | V2.1.0 (18/06/2020) | |
| March 2022 | The Ethnicity Classifications Levels have been removed and are now available as a separate document under [10001:2017 Ethnicity Data Protocols.](https://www.health.govt.nz/publication/hiso-100012017-ethnicity-data-protocols) |

1. For example, the *New Zealand Health Strategy: Future direction*, *The Guide to He Korowai Oranga – Māori Health Strategy*, Wellington: Ministry of Health, <http://www.health.govt.nz/publication/guide-he-korowai-oranga-maori-health-strategy> [↑](#footnote-ref-1)
2. *New Zealand Health Strategy: Future direction*. <http://www.health.govt.nz/publication/new-zealand-health-strategy-2016> [↑](#footnote-ref-2)
3. <http://www.health.govt.nz/about-ministry/what-we-do/new-zealand-health-strategy-update> [↑](#footnote-ref-3)
4. [Stats NZ’s *Statistical Standard for Ethnicity* *2005*.](http://aria.stats.govt.nz/aria/#StandardView:uri=http://stats.govt.nz/cms/StatisticalStandard/vv0ovwUoTSSVDhpt) [↑](#footnote-ref-4)
5. For example, [Primary Care Ethnicity Data Audit Toolkit (EDAT](https://www.health.govt.nz/publication/primary-care-ethnicity-data-audit-toolkit)), [↑](#footnote-ref-5)
6. See the following websites for further information: Ministry of Health Ethnicity Data Protocols for the Health and Disability sector: <http://www.health.govt.nz/publication/ethnicity-data-protocols-health-and-disability-sector>; and Stats NZ <http://aria.stats.govt.nz/aria/?_ga=2.249695686.1347511048.1647490983-112780126.1590639140#StandardView:uri=http://stats.govt.nz/cms/StatisticalStandard/vv0ovwUoTSSVDhpt> [↑](#footnote-ref-6)
7. Extract from Stats NZ’s *Statistical Standard for Ethnicity 2005* “Verbal response”. [↑](#footnote-ref-7)
8. See the following website for further information: <https://www.privacy.org.nz/assets/Files/Codes-of-Practice-materials/HIPC-1994-2008-revised-edition.pdf>. [↑](#footnote-ref-8)
9. <http://www.health.govt.nz/nz-health-statistics/data-references/code-tables/common-code-tables/ethnicity-code-tables.> [↑](#footnote-ref-9)
10. See the following website for further information: <http://www.stats.govt.nz/methods/classifications-and-standards/classification-related-stats-standards/iwi.aspx> [↑](#footnote-ref-10)