



**Australian Government**

**Department of Health  
and Aged Care**

# **WORK WITH NKPI DATA VALIDATION RULES IN THE HEALTH DATA PORTAL**

25 OCTOBER 2023

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## About This Guide

This user guide is designed to provide health service users with instructions on how to work with the AIHW national Key Performance Indicator (nKPI) data validation rules that have been implemented in the Health Data Portal as part of the nKPI reporting data asset submission workflow process that occurs every *January* and *July*.

The nKPIs are a set of selected process-of-care and health-outcome measures reported by Indigenous-specific primary health care organisations and maternal/child health funded programs, funded by the Australian government under its Indigenous Australian Health Programme (IAHP). The indicators are based on best practice/clinical guidelines in three areas important for Indigenous health:

- Maternal and child health
- Preventative health
- Chronic disease management.

The screenshots included in the guide for each indicator will identify, where possible, what actions need to be taken (*including the cells that need to be amended where applicable*) to address each validation flag that appears so health service users are able to resolve each issue and move on to the next step of the process.

## Version History

This section details the different versions of this user guide and what they contain, allowing you to decide if/when you need to download an updated version of the guide for your use.

<b>Version Number</b>	<b>Date</b>	<b>Change</b>
1.0	25 October 2023	Original version

## Data Validation Issue Overview




When a health service submits their aggregated nKPI data in the Data Portal either through “direct load” from their CIS or by entering it into the Data Portal manually, data validation will run over their data using the rules specified by the AIHW. If any of these data validation rules have been breached in the health service’s data submission, data validation flags will be added to the applicable indicators in the health service’s nKPI form.

Once this occurs, the health service will be asked to go into their data asset in the Data Portal and address each data validation flag that has appeared. For each validation flag that has been added to the data asset, the user will be asked to either amend the values in the indicator the validation flag refers to or add a response to the flag to explain the values.

There are several different validation flags that can appear in each indicator in the nKPI data asset, and it can be difficult at times for the user to know exactly what needs to be done. This can be even more difficult when a validation flag relates to more than one indicator.

To assist health services with resolving their data validation issues, this user guide looks at each of the data validation flags that could appear for each indicator and provides advice for the user on how to resolve the issue and subsequently remove the flag.

Before each of the indicators and their validation flags are addressed, there are a couple of things that should be noted:

- Regardless of the data validation flag that is raised, a user will always have the option of responding to the flag rather than amending the values that have been identified as needing to be changed. This can be done by selecting  next to the applicable validation flag
- If a user is ever unsure which cells on an indicator a particular data validation flag refers to, they can select  to highlight the cells in question. Each of the screenshots in this guide have used  to highlight the fields in question in red.

## Completing nKPIs you don’t report on/ have data for

For nKPI data reporting in the Data Portal, Maternal and Child Health services will only be asked to enter data for the five maternal and child health indicators they report on (PI01, PI02, PI03, PI11 and PI13). For these services, the nKPI form they get presented with will only contain these indicators.

There will still be times though when these health services may be asked to complete indicators in the nKPI form that they aren’t funded to report on. In these cases, health services will need to check each of the indicators they aren’t funded to report on, in the nKPI form, to ensure the cells (*numerator and denominator*) are blank.

If these cells are left blank, data validation flags will be generated as the Data Portal rules require all fields to be populated. The user would then simply respond to the flag specifying that their service isn’t funded to report on the indicator.

For more information regarding how to work with indicators your health service doesn’t report on, see the [Completing nKPIs you Don’t Report on/ have data for](#) QRG through the [User Support](#) section on any screen in the Data Portal.

## Working with linked indicators

There are several indicators on the nKPI form in the Data Portal that are linked. This means that if you change a value on one indicator, it will have an impact on a value on another indicator and may generate a data validation flag for each of the impacted indicators.

For example, if there are five indicators that contain a “*Total clients*” column and a user changes the “*Total clients*” value on one indicator for the service’s male clients aged between 25 and 34 years, then they will need to change the male 25 – 34 years totals on each of the other four indicators.

The table below lists each of the indicators on the nKPI form, the other indicators they are linked to and how they are linked. This will assist health services in identifying the impact making a change to a value on a particular indicator will have on other indicators within the form.

Indicator	Linked To	Link Type
<a href="#">01</a>	02	The numerator value “ <i>With birth weight recorded (all live births)</i> ” needs to be greater than or equal to the PI02 total value “ <i>Total babies born</i> ”
<a href="#">02</a>	01	The value “ <i>Total babies born</i> ” needs to be less than or equal to the PI01 numerator value “ <i>With birth weight recorded (all live births)</i> ”
<a href="#">03</a>	05, 07, 18, 23	The “ <i>Total clients</i> ” value for a particular age group and sex needs to be greater than or equal to the corresponding “ <i>Total clients with Type 2 diabetes</i> ” values on PI05, PI07, PI18 and PI23
	09, 14, 16	The “ <i>Total clients</i> ” value for a particular age group and sex needs to be the same as the corresponding “ <i>Total clients</i> ” values on PI09, PI14 and PI16
	12	The “ <i>Total clients</i> ” values should be greater than or equal to the “ <i>Total clients</i> ” values on PI12 by age group and sex
	13	The “ <i>Total clients</i> ” values for the sum of females aged 35-44 and 45-54 for PI03 should be greater than or equal to the “ <i>Total clients who gave birth</i> ” values for those aged 35 and over for PI13
	14	The “ <i>Total clients</i> ” value for clients aged 45 and over should be greater than or equal to the “ <i>Total clients</i> ” number on PI14 for clients aged 45 and over
	18, 20	<b>For clients aged 35 to 64:</b> The “ <i>Total clients</i> ” values should be equal to the “ <i>Total clients with CVD</i> ” values for PI18 (CVD) plus the “ <i>Total clients without CVD</i> ” values for PI20 <b>For clients aged 65 and over:</b> The “ <i>Total clients</i> ” values should be greater than or equal to the “ <i>Total clients with CVD</i> ” values for PI18 plus the “ <i>Total clients without CVD</i> ” values for PI20
	25	The number of regular clients in an age group on PI03 should equal the sum of the clients in the corresponding age groupings on PI25

Indicator	Linked To	Link Type
	22	The female " <i>Total clients</i> " for a particular age group should be greater than or equal to the " <i>Total female clients without a hysterectomy</i> " on PI22
<a href="#">05</a>	03, 09, 14, 16	The totals by age group and sex for Type 2 diabetes for ages 15-24, 25-34, 35-44 should be less than or equal to the totals by age group and sex on PI03, PI09, PI14 and PI16 (for the corresponding age groups)
	06	The " <i>With HbA1c Test</i> " value should always equal the sum of the HbA1c values on PI06  The " <i>Total clients with Type 2 Diabetes</i> " value should always be greater than or equal to the sum of the HbA1c values on PI06
	07,18,23	The " <i>Total clients with Type 2 Diabetes</i> " value should always equal the corresponding value on PI07, PI18 and PI23
<a href="#">06</a>	05	The sum of the HbA1c result values should equal the " <i>With HbA1c Test</i> " value on PI05
		The sum of the HbA1c values should always be less than or equal to the " <i>Total clients with Type 2 Diabetes</i> " value on PI05
<a href="#">07</a>	03, 09, 14, 16	The totals by age group and sex should be less than or equal to the totals by age group and sex on PI03, PI09, PI14 and PI16 (for the corresponding age groups)
	05,18,23	The " <i>Total clients with Type 2 Diabetes</i> " should always equal the corresponding value on PI05, PI18 and PI23
<a href="#">09</a>	03, 14, 16	The " <i>Total clients</i> " value for a particular age group and sex needs to be the same as the corresponding " <i>Total clients</i> " values on PI03, PI14 and PI16
	05, 07, 18, 23	The totals by age group and sex should be greater than or equal to the totals by age group and sex for PI05, PI07, PI18 (Type 2 diabetes) and PI23 (for the corresponding age groups)
	10	The " <i>Total clients with smoking status recorded</i> " value should equal the sum of the " <i>Smoking status result</i> " values on PI10  The " <i>Total clients</i> " value should be greater than or equal to the sum of the " <i>Smoking status result</i> " values on PI10
	12	The " <i>Total clients</i> " value should be greater than or equal to the totals on PI12 by age group and sex



Indicator	Linked To	Link Type
	13	The “ <i>Total clients</i> ” value sum of females aged 15-24 and 25-34 and the sum of females aged 35-44 and 45-54 should be greater than or equal to the totals for the sum of <20 and 20-34 and 35 and over on PI13
	14	The “ <i>Total clients</i> ” value for clients aged 45 and over should be greater than or equal to the total on PI14 for clients aged 45
	18, 20	<b>For clients aged 35 to 64:</b> The “ <i>Total clients</i> ” values should be equal to the “ <i>Total clients with CVD</i> ” values for PI18 (CVD) plus the “ <i>Total clients without CVD</i> ” values for PI20 <b>For clients aged 65 and over:</b> The “ <i>Total clients</i> ” values should be greater than or equal to the “ <i>Total clients with CVD</i> ” values for PI18 plus the “ <i>Total clients without CVD</i> ” values for PI20
	22	The female “Total clients” in a particular age group should be greater than or equal to the “Total female clients without a hysterectomy” on PI22
	25	The number of regular clients in an age group on PI09 should equal the sum of the clients in the corresponding age groupings on PI25.
<a href="#">10</a>	09	The sum of the “ <i>Smoking status result</i> ” values should equal the “ <i>Total clients with smoking status recorded</i> ” value on PI09
		The sum of the “ <i>Smoking status result</i> ” values should be less than or equal to the “ <i>Total clients</i> ” value on PI09
	11	The totals for PI11 by age group (sum of 15-19 and 20-24, 25-34 and 35+) should be less than or equal to the totals for PI10 for females aged 15-24, 25-34 and sum of 35+  The “Current smoker, ex-smoker and never smoked” values of PI11 by age group (sum of 15-19 and 20-24, 25-34 and 35+) should be less than or equal to the “Current smoker, ex-smoker and never smoked” values of PI10 for age groups 15-24, 25-34 and sum of 35+
<a href="#">11</a>	10	The totals by age group (sum of 15-19 and 20-24, 25-34 and 35+) should be less than or equal to the totals of PI10 for females aged 15-24, 25-34 and sum of 35+
		The “Current smoker, ex-smoker and never smoked” values by age group (sum of 15-19 and 20-24, 25-34 and 35+) should be less than or equal to the “Current smoker, ex-smoker and never smoked” values of PI10 for age groups 15-24, 25-34 and sum of 35+

Indicator	Linked To	Link Type
	13	The total by age group (15-19, sum of 20-24 and 25-34, 35+) should be less than or equal to the totals on PI13 for age groups under 20, 20-34, 35+
<a href="#">12</a>	03, 09, 14, 16	The totals by age group and sex should be less than or equal to the totals by age group and sex on PI03 25 + and the totals by age and sex for the corresponding age groups on PI09, PI14 and PI16
<a href="#">13</a>	03	The “ <i>Total clients who gave birth</i> ” for those aged 35 and over for PI13 should be less than or equal to the “ <i>Total clients</i> ” for the sum of females aged 35 – 44 and 45 – 54 for PI03
	09, 14, 16	The totals for those aged <20 and 20-34 and 35 and over should be less than or equal to the totals for females aged sum of 15-24 and 25-34 and the sum of females aged 35-44 and 45-54 for PI09, PI14 and PI16
<a href="#">14</a>	03, 09, 16	The “ <i>Total clients</i> ” value for clients aged 45 and over should be less than or equal to the “ <i>Total clients</i> ” value for those aged 45 and over for PI03, PI09 and PI16
<a href="#">16</a>	03,09, 14	The “ <i>Total clients</i> ” value for a particular age group and sex needs to be the same as the corresponding “ <i>Total clients</i> ” values on PI03, PI09 and PI14
	05, 07, 18, 23	The “ <i>Total clients</i> ” value for a particular age group and sex needs to be greater than or equal to the corresponding “ <i>Total clients with Type 2 diabetes</i> ” values on PI05, PI07, PI18 and PI23
	12	The “ <i>Total clients</i> ” value should be greater than or equal to the totals on PI12 by age group and sex
	13	The “ <i>Total clients</i> ” value sum of females aged 15–24 and 25–34 and the sum of females aged 35–44 and 45–54 should be greater than or equal to the totals for those aged sum of <20 and 20-34 and 35 and over on PI13
	14	The “ <i>Total clients</i> ” value for clients aged 45 and over should be greater than or equal to the total on PI14
	17	The number of clients with “ <i>Alcohol consumption recorded</i> ” should be greater than or equal to the “ <i>Total clients with AUDIT-C test</i> ” for PI17 by age group and sex
	18, 20	<b>For clients aged 35 to 64:</b> The “ <i>Total clients</i> ” values should be equal to the “ <i>Total clients with CVD</i> ” values for PI18 (CVD) plus the “ <i>Total clients without CVD</i> ” values for PI20

Indicator	Linked To	Link Type
		<b>For clients aged 65 and over:</b> The “ <i>Total clients</i> ” values should be greater than or equal to the “ <i>Total clients with CVD</i> ” values for PI18 plus the “ <i>Total clients without CVD</i> ” values for PI20
	22	The number of female “ <i>Total clients</i> ” in a particular age group should be greater than or equal to the “ <i>Total female clients without a hysterectomy</i> ” on PI22
<a href="#">17</a>	16	The “ <i>Total clients with AUDIT-C test</i> ” value needs to be more than the clients with “ <i>Alcohol consumption recorded</i> ” for the corresponding age group on PI16
<a href="#">18</a>	03, 09, 14, 16	The totals by age group and sex for PI18 CVD/Type 2 Diabetes should be less than or equal to the totals by age group and sex for PI03, PI09, PI14 and PI16 (for corresponding age groups)
	20	<b>For clients aged 35 to 64:</b> The “ <i>Total clients</i> ” values should be equal to the “ <i>Total clients with CVD</i> ” values for PI18 (CVD) plus the “ <i>Total clients without CVD</i> ” values for PI20  <b>For clients aged 65 and over:</b> The “ <i>Total clients</i> ” values should be greater than or equal to the “ <i>Total clients with CVD</i> ” values for PI18 plus the “ <i>Total clients without CVD</i> ” values for PI20
	05,07,23	The “ <i>Total clients with Type 2 Diabetes</i> ” value should always equal the corresponding value on PI05, PI07, and PI23
	19	The sum of the “ <i>eGFR only</i> ” and “ <i>Both an eGFR and an ACR</i> ” values recorded for each sex and age group should be equal to the “ <i>Total clients with Type 2 Diabetes with an eGFR test</i> ” for the corresponding groups on PI19
	19	The “ <i>eGFR recorded</i> ” for PI18 CVD by age group and sex should be the same as the “ <i>Total clients with CVD, with an eGFR test</i> ” for PI19 CVD by age group and sex
	19	The sum of the “ <i>ACR only</i> ” and “ <i>Both an eGFR and an ACR</i> ” values recorded for each sex and age group should be equal to the “ <i>Total clients with ACR test</i> ” for the corresponding groups on PI19
<a href="#">19</a>	18	The values in the “ <i>Total clients with Type 2 Diabetes, with an eGFR test</i> ” cells by age group and sex should equal the sum of the corresponding “ <i>eGFR only</i> ” and “ <i>Both an eGFR and an ACR</i> ” values on PI18  The value in the “ <i>Total clients with CVD, with an eGFR test</i> ” cells by age group and sex should equal the corresponding “ <i>eGFR only</i> ” values on PI18

Indicator	Linked To	Link Type
		The values in the “ <i>Total clients with ACR test</i> ” cells by age group and sex should equal the sum of the corresponding “ <i>ACR only</i> ” and “ <i>Both an eGFR and an ACR</i> ” values on PI18
<a href="#">20</a>	18	<b>For clients aged 35 to 64:</b> The “ <i>Total clients</i> ” values should be equal to the “ <i>Total clients with CVD</i> ” values for PI18 (CVD) plus the “ <i>Total clients without CVD</i> ” values for PI20  <b>For clients aged 65 and over:</b> The “ <i>Total clients</i> ” values should be greater than or equal to the “ <i>Total clients with CVD</i> ” values for PI18 plus the “ <i>Total clients without CVD</i> ” values for PI20
	21	The totals by age group and sex should be greater than or equal to the totals on PI21 by age group and sex
<a href="#">21</a>	20	The totals by age group and sex should be less than or equal to the totals on PI20 by age group and sex
<a href="#">22</a>	03, 09, 14, 16	The totals by age group (20-24, 25-34, 35-44, 45-54, 55-64) should be less than or equal to the totals for female clients in the corresponding age groups on PI03, PI09, PI14 and PI16  The sum of the totals for clients aged 65-69 and 70-74 should be less than or equal to the totals for female clients aged 65+ on PI03, PI09 and PI16
<a href="#">23/24</a>	03, 09, 14, 16	The Type 2 diabetes should be less than or equal to the totals on PI03, PI09, PI14 and PI16 by age group and sex (for the corresponding age groups)
	05,07,18	The “ <i>Total clients with Type 2 Diabetes</i> ” value should always equal the corresponding value on PI05, PI07, and PI18
25	03	The number of regular clients in an age group on PI03 should equal the sum of the clients in the corresponding age groupings on PI25
	09	The number of regular clients in an age group on PI03 should equal the sum of the clients in the corresponding age groupings on PI25
<a href="#">TNATSIRC</a>	03, 09	The number of “ <i>Indigenous clients with both a sex and age recorded</i> ” should be greater than or equal to all clients that are included in the totals of PI03 (0-14 years) and PI09 (15 years and over)
	03	Total male and female clients across all age ranges in PI03 should not be more than Indigenous clients with both a sex and age recorded in TNATSIRC.

## PI01: Birth weight recorded

**PI01: Birth weight recorded and PI02: Birth weight result** [nKPI User guide](#)

Indigenous babies born within the previous 12 months who have had more than one visit, whose birth weight results were low, normal or high

	Low ( < 2,500 grams)	Normal ( >= 2,500 & < 4,500 grams)	High ( >= 4,500 grams)	With birth weight recorded (all live births)	Total babies born
Number of babies	6	29	0	35	38
<b>Total</b>	6	29	0	35	38
	16%	76%	0%	92%	

The cells highlighted above in green make up the **PI01: Birthweight recorded** cells. All data validation issues for PI01 involve at least one of these cells.

## Issue 1 – Numerator is larger than the denominator

The screenshot shows a 'Reporting Dashboard' for 'INDIGENOUS HEALTH - NKPI' with the period '19/FEB/2021 TO 20/FEB/2021'. The main title is 'NKPI - Baringa Aboriginal Health Service - 20210219'. The page is titled 'Submission Data' and displays a table for 'PI01: Birth weight recorded and PI02: Birth weight result'. The table has columns for birth weight categories and two summary columns: 'With birth weight recorded (all live births)' and 'Total babies born'. The 'Number of babies' row shows values of 6, 29, 0, 35, and 34 respectively. The 'Total' row shows percentages of 18%, 85%, 0%, 103%, and 34%. A red box highlights the '35' and '34' values, indicating a validation error where the numerator (35) is greater than the denominator (34).

	Low (< 2,500 grams)	Normal (>= 2,500 & < 4,500 grams)	High (>= 4,500 grams)	With birth weight recorded (all live births)	Total babies born
Number of babies	6	29	0	35	34
<b>Total</b>	6	29	0	35	34
	18%	85%	0%	103%	

The notification message is titled 'Internal validation' and contains the following text: 'For Row: Number of babies; With birth weight recorded (all live births) (Value=35) should not be more than Total babies born (Value=34). Please amend your data or provide a comment.' The notification is dated '25/Oct/2023 08:51'.

**AIHW rule:** The numerator should be less than or equal to the denominator (NVR-01A)

**Issue:** The “*Total babies born*” value is less than the “*With birth weight recorded (all live births)*” value

**Action required if values need amending:** Amend the values so the “*Total babies born*” value is greater than or equal to the “*With birth weight recorded (all live births)*” value

## PI02: Birth weight result

**PI01: Birth weight recorded and PI02: Birth weight result** [nKPI User guide](#)

Indigenous babies born within the previous 12 months who have had more than one visit, whose birth weight results were low, normal or high

	Low ( < 2,500 grams)	Normal ( >= 2,500 & < 4,500 grams)	High ( >= 4,500 grams)	With birth weight recorded (all live births)	Total babies born
Number of babies	6	29	0	38	55
<b>Total</b>	6	29	0	38	55
	11%	53%	0%	69%	

The cells highlighted above in green make up **PI02: Birth weight result**. All data validation issues for PI02 involve at least one of these cells.

## Issue 1 – Number of babies with *Low*, *Normal* and *High* recorded birth weights is higher than the babies with birth weight recorded value

PI01: Birth weight recorded and PI02: Birth weight result <span style="float: right;">nKPI User guide</span>					
Indigenous babies born within the previous 12 months who have had more than one visit, whose birth weight results were low, normal or high					
	Low ( < 2,500 grams)	Normal ( >= 2,500 & < 4,500 grams)	High ( >= 4,500 grams)	With birth weight recorded (all live births)	Total babies born
Number of babies	6	29	0	34	55
Total	6	29	0	34	55
	11%	53%	0%	62%	

**Notifications** + New

**Internal validation**

For Row: Number of babies; the sum of

- Low ( < 2,500 grams) (Value=6)
- Normal ( >= 2,500 & < 4,500 grams) (Value=29)
- High ( >= 4,500 grams) (Value=0)

should equal

- With birth weight recorded (all live births) (Value=34)

Please amend your data or provide a comment.

25/Oct/2023 08:54

**AIHW rule:** The sum of the numerator components (*low/normal/high* birthweight) should be equal to the denominator (NVR-02A)

**Issue:** The “*With birth weight recorded (all live births)*” value is less than the sum of the “*Low, Normal and High*” values

**Action required if values need amending:** Amend the values so the “*With birth weight recorded (all live births)*” value is equal to the sum of the “*Low, Normal and High*” values

## Issue 2 – The three denominator components (*low/normal/high* birth weight) are not the same - XML ONLY

**AIHW rule:** The three denominator components for PI02 (*low/normal/high* birthweight) should all be the same (NVR-02B)

**Issue:** The three denominators for PI02 (*low/normal/high*) are not the same. Please note that you can only see one value for each denominator in the form – the second value for each denominator is in the background and has been transferred from the CIS

**Action required if values need amending:** Amend the values as required to ensure the three denominators are the same. If the values you see on the screen are correct, delete the values, re-enter them and then select **Save**. The validation flag should then be cleared



This issue will only arise as part of direct load, as the data transferred from your CIS has three separate denominators (one for each numerator) and sometimes these are different



## PI03: Health assessments

### Issue 1 - Numerator larger than the denominator

**PI03: Health assessments** [nKPI User guide](#)

Indigenous regular clients with a current completed health assessment

Clients aged 0-14 years, with assessment within the previous 12 months

Male	In Person	Telehealth	Total clients
0 - 4 years	91	204	204
5 - 14 years	109	1	236
<b>Total males</b>	200	205	440
	45%	47%	

**Internal validation**

For Clients aged 0-14 years, with assessment within the previous 12 months Male; Row: 0 - 4 years; the sum of

- In Person (Value=91)
- Telehealth (Value=204)

should not be more than

- Total clients (Value=204)

Please amend your data or provide a comment.

25/Oct/2023 09:24

**AIHW rule:** Against each row on PI03, the sum of the numerators (*In Person* and *Telehealth*) cannot be more than the denominator (*Total clients*) (NVR-03A)

**Issue:** The combined Male 0 – 4 years “*In Person*” and “*Telehealth*” values are more than the “*Total clients*” value

**Action required if values need amending:** Amend the Male 0 – 4 years values so the “*Total clients*” value is greater than or equal to the combined “*In Person*” and “*Telehealth*” values

## Issue 2 – 15+ Denominators not matching those on PI09, PI14 and PI16

### PI03

Clients aged 15 years and over, with assessment within the previous 24 months			
Male	In Person	Telehealth	Total clients
15 - 24 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="152"/>
25 - 34 years	<input type="text" value="27"/>	<input type="text" value="0"/>	<input type="text" value="103"/>

### PI09

PI09: Smoking status recorded and PI10: Smoking status result <span style="float: right;"><a href="#">nKPI User guide</a></span>					
Indigenous regular clients with a smoking status result					
Male	Current smoker	Ex-smoker	Never smoked	Total clients with smoking status recorded	Total clients
11 - 14 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
15 - 24 years	<input type="text" value="52"/>	<input type="text" value="6"/>	<input type="text" value="50"/>	<input type="text" value="108"/>	<input type="text" value="152"/>
25 - 34 years	<input type="text" value="60"/>	<input type="text" value="4"/>	<input type="text" value="11"/>	<input type="text" value="75"/>	<input type="text" value="104"/>

### PI16

PI16: Alcohol consumption recorded		
Indigenous regular clients whose alcohol consumption status has been recorded		
Alcohol consumption recorded within the previous 24 months		
Male	Alcohol consumption recorded	Total clients
15 - 24 years	<input type="text" value="82"/>	<input type="text" value="152"/>
25 - 34 years	<input type="text" value="60"/>	<input type="text" value="104"/>

**Internal validation**

For Male regular clients aged 25 - 34 years, the following values should be equal

- PI03: Total clients (Value=103)
- PI09: Total clients (Value=104)
- PI14: Total clients (Value=104)
- PI16: Total clients (Value=104)

Please amend your data or provide a comment.

25/Oct/2023 09:28

**AIHW rule:** Against each row on PI03, where age is  $\geq 15$ , “Total clients” must be equal to the corresponding “Total clients” on PI09, PI14 and PI16 by age group and sex (NVR-03D)

**Issue:** The applicable “Total clients” age group and sex value on PI03 is different to the corresponding “Total clients” values on PI09, PI14 and/or PI16

**Action required if values need amending:** Amend the applicable values so that the “Total clients” on PI03 is the same as the corresponding values on PI09, PI14 and PI16

## Issue 3 – Denominators on PI03, PI09 and PI16 are less than the denominators for PI05, PI07, PI18 and PI23

### PI03

Clients aged 15 years and over, with assessment within the previous 24 months			
Male	In Person	Telehealth	Total clients
15 - 24 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="152"/>
25 - 34 years	<input type="text" value="27"/>	<input type="text" value="0"/>	<input type="text" value="104"/>

### PI23

25 - 34 years	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="105"/>
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The above *PI23* screenshot is an example. The same applies to PI05, PI07 and PI18.

**Internal validation**

For male regular clients aged 25 - 34 years

- ALL the numbers with Type 2 Diabetes in PI05 6 Months (Value=105), PI05 12 Months (Value=105), PI07 (Value=105), PI18 (Value=105), PI23 (Value=105) should not be more than
- ALL the numbers of total regular clients in PI03 (Value=104), PI09 (Value=104), PI14 (Value=104), PI16 (Value=104).

Please amend your data or provide a comment.

25/Oct/2023 09:32

**AIHW rule:** Against each row on PI03, PI09, PI14 and PI16, where age is  $\geq 15$ , “*Total clients*” must be greater than or equal to “*Total clients with Type 2 diabetes*” on PI05, PI07, PI18 and PI23 (NVR-03E)

**Issue:** The applicable “*Total clients*” age group and sex values on PI03, PI09 and PI16 are less than at least one of the “*Total clients*” values on PI05, PI07, PI18 and PI23

**Action required if values need amending:** Amend the applicable values so that the “*Total clients*” values on PI03, PI09 and PI16 are greater than or equal to the corresponding values on PI05, PI07, PI18 and PI23

## Issue 4 – 5 – 14 years denominator not matching denominator on PI14

### PI03

**PI03: Health assessments** [nKPI User guide](#)

Indigenous regular clients with a current completed health assessment

Clients aged 0-14 years, with assessment within the previous 12 months

Male	In Person	Telehealth	Total clients
0 - 4 years	91	4	204
5 - 14 years	109	1	237

### PI14

**PI14: Immunised against influenza 6+ months** [nKPI User guide](#)

Regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients who are immunised against influenza

Male	Influenza immunised clients	Total clients
6 months - 4 years	23	190
5 - 14 years	51	236

**Internal validation**

For Male regular clients aged 5 - 14 years, the following values should be equal

- PI03: Total clients (Value=237)
- PI14: Total clients (Value=236)

Please amend your data or provide a comment.

25/Oct/2023 09:33

**AIHW rule:** Against each row on PI03, where age is 5 – 14 years, “*Total clients*” must be equal to the corresponding “*Total clients*” rows on PI14 (NVR-03F)

**Issue:** The 5 – 14 years “*Total clients*” value is greater than the corresponding “*Total clients*” value on PI14

**Action required if values need amending:** Amend the values so the PI03 5 - 14 “*Total clients*” value matches the “*Total clients*” value on PI14

## Issue 5 – Denominators for Females aged between 25 and 64 are less than corresponding denominator on PI22

### PI03

Clients aged 15 years and over, with assessment within the previous 24 months			
Female	In Person	Telehealth	Total clients
15 - 24 years	194	2	258
25 - 34 years	176	3	244
35 - 44 years	140	2	173
45 - 54 years	116	4	147
55 - 64 years	76	1	108
65 years and older	56	3	79

### PI22

PI22: Cervical screening		
Regular clients who have had cervical screening (HPV test)		
Clients with a cervical screening within the previous 5 years and on or after 01 December 2017		
Age	Clients with a cervical screening	Total female clients without a hysterectomy
25 - 34 years	106	244
35 - 44 years	90	166
45 - 54 years	67	132
55 - 64 years	38	109

**Internal validation**

The number of female regular clients who have not had a hysterectomy in

- PI22: Clients with a cervical screening within the previous 5 years and on or after 01 December 2017  
Age; Row: 55 - 64 years; (Value=109)  
should not be more than
- PI03:(Value=108),PI09:(Value=108),PI14:(Value=108),PI16:(Value=108)

Please amend your data or provide a comment.

25/Oct/2023 09:38

**AIHW rule:** Against each row on PI03, PI09, PI14 and PI16, where age is  $\geq 25$  and  $\leq 64$  and the sex is female, “Total clients” must be greater than or equal to the corresponding row on PI22, “Total female clients without a hysterectomy” (NVR-03H)

**Issue:** The combined “Total clients” values on PI03 are less than the corresponding “Total female clients without a hysterectomy” value on PI22

**Action required if values need amending:** Amend the values so the applicable “Total clients” values on PI03 are greater than or equal to the corresponding “Total female clients without a hysterectomy” value on PI22

## Issue 6 – 15+ denominators are less than corresponding denominators on PI12

### PI03

Clients aged 15 years and over, with assessment within the previous 24 months			
Male	In Person	Telehealth	Total clients
15 - 24 years	128	2	156

### PI12

PI12: Body Mass Index						
Indigenous regular clients who have a BMI result within specified categories						
BMI results in the previous 24 months						
Male	Underweight (BMI < 18.5)	Normal Weight (BMI >=18.5 & < 25)	Overweight (BMI >=25 & < 30)	Obese (BMI >= 30)	Not Calculated	Total clients
18 - 24 years	0	0	0	0	0	157

**Internal validation**

The following value(s)

- PI12: BMI results in the previous 24 months Male; Row: 18 - 24 years; (Value=157) should not be more than
- PI03: Total clients (Value=156)
- PI09: Total clients (Value=156)
- PI14: Total clients (Value=156)
- PI16: Total clients (Value=156)

Please amend your data or provide a comment.

25/Oct/2023 09:52

**AIHW rule:** Against each row on PI03, 09, 14 and 16, where age is >=15, “Total clients” must be greater than or equal to the corresponding row “Total clients” on PI12 (NVR-031)

**Issue:** The PI03 Male 15-24 years “Total clients” value is greater than the corresponding “Total clients” value on PI12

**Action required if values need amending:** Amend the value so the Male PI03 15-24 years “Total clients” value matches the corresponding “Total clients” value on PI12

## Issue 7 – Total Indigenous female clients for 65+ PI03, PI09, PI14 and PI16 are less than the total Indigenous clients for PI22 aged 65-74

### PI03

65 years and older	<input type="text" value="16"/>	<input type="text" value="0"/>	<input type="text" value="31"/>
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### PI09


65 years and older	<input type="text" value="8"/>	<input type="text" value="8"/>	<input type="text" value="9"/>	<input type="text" value="25"/>	<input type="text" value="31"/>
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### PI16

65 years and older	<input type="text" value="22"/>	<input type="text" value="31"/>
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### PI22

65 - 74 years	<input type="text" value="0"/>	<input type="text" value="32"/>
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 **Internal validation**

The number of female regular clients who have not had a hysterectomy in

- PI22: Clients with a cervical screening within the previous 5 years and on or after 01 December 2017  
Age; Row: 65 - 74 years; (Value=32)  
should not be more than
- PI03:(Value=31),PI09:(Value=31),PI14:(Value=31),PI16:  
(Value=31)

Please amend your data or provide a comment.

25/Oct/2023 09:55

**AIHW rule:** The denominators for female clients aged 65+ for PI03, PI09, PI14 and PI16 should be greater than or equal to the denominator for PI22 clients aged 65-74 (NVR-03J)

**Issue:** The denominators for female clients aged 65+ for PI03, PI09, PI14 and PI16 are less than the denominator for PI22 clients aged 65-74

**Action required if values need amending:** Amend the applicable “*Total clients*” values so the “*Total clients*” values for female clients aged 65+ on PI03, PI09, PI14 and PI16 are greater than or equal to the “*Total clients*” values for PI22 female clients aged 65-74

### Issue 8 – Total Indigenous clients for PI03, PI09 and PI16 by age group and sex are less than the denominators for PI18 CVD by age group and sex plus the denominators for PI20 by age group and sex, for clients aged 35 - 64

**PI03**

Clients aged 15 years and over, with assessment within the previous 24 months

Male	In Person	Telehealth	Total clients
15 - 24 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="152"/>
25 - 34 years	<input type="text" value="27"/>	<input type="text" value="0"/>	<input type="text" value="104"/>
35 - 44 years	<input type="text" value="37"/>	<input type="text" value="0"/>	<input type="text" value="76"/>
45 - 54 years	<input type="text" value="39"/>	<input type="text" value="0"/>	<input type="text" value="79"/>
55 - 64 years	<input type="text" value="25"/>	<input type="text" value="0"/>	<input type="text" value="40"/>

**PI09**

35 - 44 years	<input type="text" value="47"/>	<input type="text" value="5"/>	<input type="text" value="9"/>	<input type="text" value="61"/>	<input type="text" value="76"/>
45 - 54 years	<input type="text" value="48"/>	<input type="text" value="8"/>	<input type="text" value="6"/>	<input type="text" value="62"/>	<input type="text" value="79"/>
55 - 64 years	<input type="text" value="19"/>	<input type="text" value="10"/>	<input type="text" value="5"/>	<input type="text" value="34"/>	<input type="text" value="40"/>

**PI16**

35 - 44 years	<input type="text" value="58"/>	<input type="text" value="76"/>
45 - 54 years	<input type="text" value="61"/>	<input type="text" value="79"/>
55 - 64 years	<input type="text" value="33"/>	<input type="text" value="40"/>


**PI18**

35 - 44 years	<input type="text" value="1"/>	<input type="text" value="20"/>
45 - 54 years	<input type="text" value="2"/>	<input type="text" value="25"/>
55 - 64 years	<input type="text" value="6"/>	<input type="text" value="26"/>

**PI20**

35 - 44 years	<input type="text" value="22"/>	<input type="text" value="56"/>
45 - 54 years	<input type="text" value="27"/>	<input type="text" value="54"/>
55 - 64 years	<input type="text" value="8"/>	<input type="text" value="15"/>



**Internal validation**

For Female regular clients 55 - 64 years the sum of

- PI20: Total clients without CVD (Value=189)
- PI18: Total clients with CVD (Value=40)

should equal

- PI03: Total clients (Value=108)
- PI09: Total clients (Value=108)
- PI14: Total clients (Value=108)
- PI16: Total clients (Value=108)

Please amend your data or provide a comment.

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25/Oct/2023 09:38

**AIHW rule:** Against each row on PI03, PI09, PI14 and PI16 where age is  $\geq 35$  years and  $\leq 64$  years, “*Total clients*” must be equal to the sum of the corresponding rows “*Total clients with CVD*” on PI18 and “*Total clients without CVD*” on PI20” (NVR-03K)

**Issue:** The “*Total clients*” values for Male clients aged 55 – 64 for PI03, PI09 and PI16 are less than the Male 55 – 64 years “*Total clients*” values for PI18 CVD plus the corresponding “*Total clients*” values for PI20

**Action required if values need amending:** Amend the applicable values so “*Total clients*” for male clients aged 55 to 64 in PI03, PI09 and PI16 are equal to “*Total clients with CVD*” for male clients aged 55 to 64 in PI18 CVD, plus “*Total clients without CVD*” for male clients aged 55 to 64 in PI20

## Issue 9 – Total Indigenous clients for PI03, PI09, PI14 and PI16 by age group and sex are less than the denominators for PI18 CVD by age group and sex plus the denominators for PI20 by age group and sex, for clients aged 65 and over

### PI03

65 years and older	<input type="text" value="5"/>	<input type="text" value="0"/>	<input type="text" value="12"/>
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### PI09

65 years and older	<input type="text" value="5"/>	<input type="text" value="3"/>	<input type="text" value="1"/>	<input type="text" value="9"/>	<input type="text" value="12"/>
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### PI16

65 years and older	<input type="text" value="9"/>	<input type="text" value="12"/>
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### PI18

65 years and older	<input type="text" value="2"/>	<input type="text" value="7"/>
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### PI20

65 - 74 years	<input type="text" value="1"/>	<input type="text" value="6"/>
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 **Internal validation**

For Male regular clients 65 years and older the sum of

- PI18: Total clients with CVD (Value=29)
- PI20: Total clients without CVD (Value=6)

should not be more than

- PI03: Total clients (Value=12)

Please amend your data or provide a comment.

25/Oct/2023 10:57

**AIHW rule:** Against each row on PI03, PI09 and PI16 where age is 65 years and over, “*Total clients*” must be greater than or equal to the sum of the corresponding rows where age is 65 – 74 years “*Total clients with CVD*” on PI18 and “*Total clients without CVD*” on PI20 (NVR-03L)

**Issue:** The “*Total clients*” values for Male clients aged 65 and older for PI03, PI09, PI14 and PI16 are less than the “*Total clients with CVD*” value for Male clients aged 65 and older on PI18 plus the “*Total clients without CVD*” value for Male clients aged 65 – 74 on PI20

**Action required if values need amending:** Amend the applicable values so the “*Total clients*” values for Male clients aged 65 and older in PI03, PI09, PI14 and PI16 are greater than or equal to the corresponding “*Total clients with CVD*” value for PI18 CVD plus the “*Total clients without CVD*” value for PI20


## Issue 10 – Total female clients aged 35 – 44 and 45 – 54 in PI03 are less than total female clients aged 35 and over in PI13

### PI03

35 - 44 years	<input type="text" value="38"/>	<input type="text" value="0"/>	<input type="text" value="104"/>
45 - 54 years	<input type="text" value="38"/>	<input type="text" value="0"/>	<input type="text" value="92"/>

### PI13

35 years and older	<input type="text" value="3"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="197"/>
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 **Internal validation**

For female regular clients

- the sum aged 35 - 44 years and 45 - 54 years total clients in PI03 (Values=104 + 92)

should not be less than

- the sum aged 35 years and older who gave birth in PI13 (Value=197).

Please amend your data or provide a comment.

25/Oct/2023 11:08

**AIHW rule:** The sum of the denominators for females aged 35 – 44 and 45 – 54 for PI03 should be greater than or equal to the denominators for those aged 35 and over for PI13 (NVR-03M)

**Issue:** The sum of the values in the “*Total clients*” cells for females aged 35 – 44 and 45 – 54 in PI03 is less than the value in the “*Total clients*” cell for females aged 35 years and older in PI13

**Action required if values need amending:** Amend the applicable values to ensure the sum of the values in the “*Total clients*” cells for females aged 35 – 44 and 45 – 54 in PI03 are greater than or equal to the value in the “*Total clients*” cell for females aged 35 years and older in PI13

## Issue 11 – 0 – 4 years denominator is less than corresponding denominator on PI14

### PI03

PI03: Health assessments			
<a href="#">nKPI User guide</a>			
Indigenous regular clients with a current completed health assessment			
Clients aged 0-14 years, with assessment within the previous 12 months			
Male	In Person	Telehealth	Total clients
0 - 4 years	91	4	189

### PI14

PI14: Immunised against influenza 6+ months		
<a href="#">nKPI User guide</a>		
Regular clients aged 6 months and over who are immunised against influenza		
Indigenous regular clients who are immunised against influenza		
Male	Influenza immunised clients	Total clients
6 months - 4 years	23	190

**Internal validation**

- PI14: Indigenous regular clients who are immunised against influenza within the last 12 months Male; Row: 6 months - 4 years; (Value=190) should not be more than
- PI03: Clients aged 0-14 years, with assessment within the previous 12 months Male; Row: 0 - 4 years; (Value=189)

Please amend your data or provide a comment.

25/Oct/2023 11:32

**AIHW rule:** Against each row on PI03, where the age is 0 – 4 years, the “*Total clients*” value must be greater than or equal to the “*Total clients*” row on PI14 where the age is 6 months to 4 years (NVR-03N)

**Issue:** The PI14 Male 6 months – 4 years “*Total clients*” value is greater than the PI03 Male 0 – 4 years “*Total clients*” value

**Action required if values need amending:** Amend the values so the PI14 Male 6 months – 4 years “*Total clients*” value is less than or equal to the PI03 Male 0 – 4 years “*Total clients*” value


## Issue 12 – The denominator on PI03 is less than the corresponding denominator on PI18 with CVD

### PI03

Clients aged 15 years and over, with assessment within the previous 24 months			
Male	In Person	Telehealth	Total clients
15 - 24 years	128	2	156

### PI18

Clients with cardiovascular disease (CVD), with test result recorded within the previous 12 months					
Male	eGFR only	ACR only	Both an eGFR and an ACR	Neither eGFR nor ACR	Total clients with CVD
18 - 24 years	0	0	0	1	157

 **Internal validation**

For male regular clients aged 18 - 24 years

- the number with CVD in PI18 (Value=157) should not be more than
- ALL the numbers of total regular clients in PI03 (Value=156), PI09 (Value=156), PI14 (Value=156), PI16 (Value=156).

Please amend your data or provide a comment.

25/Oct/2023 11:35

**AIHW rule:** Against each row on PI03, PI09, PI14 and PI16, the “*Total clients*” value must be greater than or equal to the sum of the corresponding rows “*Total clients with CVD*” on PI18

**Note:** Rows for 65 – 74 years in PI18 correspond to rows for 65 years and older in PI03, 09, 14 and 16 (NVR-03O)

**Issue:** The PI03 Male 15 – 24 years “*Total clients*” value is less than the corresponding “*Total clients with CVD*” value on PI18

**Action required if values need amending:** Amend the applicable value to ensure the Male 15 – 24 years PI03 “*Total clients*” value is less than the corresponding “*Total clients with CVD*” value on PI18

## Issue 13 – The denominator on PI03 is less than the corresponding denominator on PI20 without CVD

### PI03

Clients aged 15 years and over, with assessment within the previous 24 months			
Male	In Person	Telehealth	Total clients
15 - 24 years	128	2	156
25 - 34 years	118	3	155
35 - 44 years	85	1	113

### PI20

PI20: CVD risk assessment factors		
		<a href="#">nKPI User guide</a>
Indigenous regular clients who have had the necessary risk factors assessed to enable cardiovascular disease (CVD) risk assessment		
Clients without diagnosed CVD, who have a smoking status recorded, and a systolic blood pressure, total cholesterol, and high density lipoprotein (HDL) cholesterol measurements recorded within the previous 24 months		
Male	With required measurements recorded	Total clients without CVD
35 - 44 years	63	134

**Internal validation**

For male regular clients aged 35 - 44 years

- the number without CVD in PI20 (Value=134) should not be more than
- ALL the numbers of total regular clients in PI03 (Value=113), PI09 (Value=113), PI14 (Value=113), PI16 (Value=113).

Please amend your data or provide a comment.

25/Oct/2023 11:41

**AIHW rule:** Against each row on PI03, PI09, PI14 and PI16, “*Total clients*” must be greater than or equal to the sum of the corresponding rows “*Total clients without CVD*” on PI20 (NVR-03P)

**Note:** Rows for 65 – 74 years in PI20 correspond to rows for 65 years and older in PI03, 09, 14 and 16

**Issue:** The PI03 Male “*Total clients*” value is less than the corresponding “*Total clients without CVD*” value on PI20

**Action required if values need amending:** Amend the applicable value to ensure the PI03 “*Total clients*” value is greater than or equal to the corresponding “*Total clients without CVD*” value on PI20

## Issue 14 – 5 – 14 years denominator is less than the corresponding denominator on PI09

### PI03

PI03: Health assessments			
<a href="#">nKPI User guide</a>			
Indigenous regular clients with a current completed health assessment			
Clients aged 0-14 years, with assessment within the previous 12 months			
Male	In Person	Telehealth	Total clients
0 - 4 years	91	4	204
5 - 14 years	109	1	236

### PI09

PI09: Smoking status recorded and PI10: Smoking status result					
<a href="#">nKPI User guide</a>					
Indigenous regular clients with a smoking status result					
Male	Current smoker	Ex-smoker	Never smoked	Total clients with smoking status recorded	Total clients
11 - 14 years	0	0	17	17	237

**Internal validation**

For total regular clients

- PI09: Male; Row: 11 - 14 years; (Value=237) should not be more than
- PI03: Clients aged 0-14 years, with assessment within the previous 12 months Male; Row: 5 - 14 years; (Value=236)

Please amend your data or provide a comment.

25/Oct/2023 11:43

**AIHW rule:** Against each row on PI03 where the age is 5 – 14 years, the “*Total clients*” value must be greater than or equal to the 11 – 14 years “*Total clients*” value on PI09 (NVR-03Q)

**Issue:** The PI03 Male 5 – 14 years “*Total clients*” value is less than the Male 11 – 14 years “*Total clients*” value on PI09

**Action required if values need amending:** Amend the applicable value to ensure the PI03 5 – 14 years “*Total clients*” value is greater than or equal to the 11 – 14 years “*Total clients*” value on PI09

## Issue 15 – Total clients are more than clients with age and sex recorded on TNATSIRC

PI03

Clients aged 0-14 years, with assessment within the previous 12 months			
Male	In Person	Telehealth	Total clients
0 - 4 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="100"/>
5 - 14 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
<b>Total males</b>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="100"/>
	0%	0%	

Clients aged 0-14 years, with assessment within the previous 12 months			
Female	In Person	Telehealth	Total clients
0 - 4 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
5 - 14 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="1"/>

TNATSIRC

TNATSIRC: Indigenous regular clients					
	Indigenous clients without a sex or age recorded	Indigenous clients with a sex recorded but not an age	Indigenous clients with an age recorded but not a sex	Indigenous clients with both a sex and age recorded	
Number of Indigenous regular clients	(Previous)	<input type="text" value="0"/>	<input type="text" value="2"/>	<input type="text" value="0"/>	<input type="text" value="1526"/>
	(Current)	<input type="text" value="0"/>	<input type="text" value="2"/>	<input type="text" value="0"/>	<input type="text" value="1053"/>

**Internal validation**

The sum of

- Total clients for both Male and Female across ALL Age ranges in PI03 (Values=100 + 0 + 0 + 1 + 159 + 178 + 113 + 204 + 166 + 107 + 299 + 325 + 225 + 219 + 229 + 180) should not be more than
- Indigenous clients with both a sex and age recorded in TNATSIRC (Value=1053)

Please amend your data or provide a comment.

25/Oct/2023 11:46

**AIHW rule:** Indigenous regular clients with age and sex recorded on TNATSIRC must be greater than or equal to “*Total clients*” for both male and female across all ranges on PI03 (NVR-ASY)

**Issue:** The Indigenous regular clients with age and sex recorded on TNATSIRC are less than the “*Total clients*” for both male and female across all ranges on PI03

**Action required if values need amending:** Amend the applicable values to ensure the Indigenous regular clients with age and sex recorded on TNATSIRC are greater than or equal to the “*Total clients*” for both male and female across all ranges on PI03





## Issue 16 – The number of clients in an age group do not match the corresponding age groups in PI25

### PI03

Clients aged 15 years and over, with assessment within the previous 24 months			
Male	In Person	Telehealth	Total clients
15 - 24 years	<input type="text" value="72"/>	<input type="text" value="0"/>	<input type="text" value="160"/>
25 - 34 years	<input type="text" value="97"/>	<input type="text" value="0"/>	<input type="text" value="178"/>
35 - 44 years	<input type="text" value="111"/>	<input type="text" value="0"/>	<input type="text" value="206"/>
45 - 54 years	<input type="text" value="121"/>	<input type="text" value="0"/>	<input type="text" value="204"/>
55 - 64 years	<input type="text" value="112"/>	<input type="text" value="0"/>	<input type="text" value="166"/>
65 years and older	<input type="text" value="66"/>	<input type="text" value="0"/>	<input type="text" value="107"/>
<b>Total males</b>	<b>579</b>	<b>0</b>	<b>1021</b>
	57%	0%	

### PI25

PI25: STI Tests		
Male	Total Clients tested	Total clients
15 - 19 years	<input type="text" value="45"/>	<input type="text" value="59"/>
20 - 24 years	<input type="text" value="78"/>	<input type="text" value="100"/>

 **Internal validation** 

The number of male regular clients aged 15 - 24 years on PI03 (Value=160) should equal the sum of Total clients in PI25:

- Row: 15 - 19 years; (Value=59)
- Row: 20 - 24 years; (Value=100)

Please amend your data or provide a comment.

25/Oct/2023 11:50

**AIHW rule:** The number of regular clients in a particular age group on PI03 should equal the sum of the corresponding age groups in PI25

**Issue:** The number of male clients aged 15-24 on PI03 is larger than the combined number of clients between 15 and 19 and 20 and 24 on PI25

**Action required if values need amending:** Amend the applicable values to ensure the number of male clients aged 15-24 on PI03 equals the combined number of clients between 15 and 19 and 20 and 24 on PI25

## PI05: HbA1c recorded

**PI05: HbA1c recorded and PI06: HbA1c result**  
 Indigenous regular clients with Type 2 Diabetes whose HbA1c measurement result was within a specified level

**HbA1c result recorded within the previous 6 months**

Male	HbA1c <= 7% (53 mmol/mol)	HbA1c > 7% (53 mmol/mol) & <= 8% (64 mmol/mol)	HbA1c > 8% (64 mmol/mol) & < 10% (86 mmol/mol)	HbA1c >= 10% (86 mmol/mol)	With HbA1c test	Total clients with Type 2 Diabetes
0 - 4 years	0	0	0	0	0	0
5 - 14 years	0	0	0	0	0	0
15 - 24 years	0	0	0	1	1	1
25 - 34 years	1	0	0	0	1	1
35 - 44 years	1	0	3	3	7	19
45 - 54 years	1	1	2	1	5	18
55 - 64 years	2	1	2	1	6	19
65 years and older	0	1	0	0	1	6

The cells highlighted above in green make up **PI05: HbA1c recorded**. All data validation issues for PI05 involve at least one of these cells.


## Issue 1 – Numerator is larger than the denominator

**PI05: HbA1c recorded and PI06: HbA1c result**

Indigenous regular clients with Type 2 Diabetes whose HbA1c measurement result was within a specified level

**HbA1c result recorded within the previous 6 months**

Male	HbA1c <= 7% (53 mmol/mol)	HbA1c > 7% (53 mmol/mol) & <= 8% (64 mmol/mol)	HbA1c > 8% (64 mmol/mol) & < 10% (86 mmol/mol)	HbA1c >= 10% (86 mmol/mol)	With HbA1c test	Total clients with Type 2 Diabetes
0 - 4 years	0	0	0	0	4	3

 **Internal validation**

For HbA1c result recorded within the previous 6 months Male;  
Row: 0 - 4 years;

- With HbA1c test (Value=4)  
should not be more than
- Total clients with Type 2 Diabetes (Value=3)

Please amend your data or provide a comment.

25/Oct/2023 12:10

**AIHW rule:** The numerators by age group and sex should be less than or equal to the denominators by age group and sex (NVR-05A)

**Issue:** The Male 0 – 4 years “*With HbA1c test*” value is larger than the corresponding “*Total clients with Type 2 Diabetes*” value

**Action required if values need amending:** Change the values so the Male 0 – 4 years “*With HbA1c test*” value is less than or equal to the corresponding “*Total clients with Type 2 Diabetes*” value

## Issue 2 – Numerator value for the previous 6 months is more than the corresponding numerator for the previous 12 months

### PI05 (previous 6 months)

**PI05: HbA1c recorded and PI06: HbA1c result**

Indigenous regular clients with Type 2 Diabetes whose HbA1c measurement result was within a specified level


**HbA1c result recorded within the previous 6 months**

Male	HbA1c <= 7% (53 mmol/mol)	HbA1c > 7% (53 mmol/mol) & <= 8% (64 mmol/mol)	HbA1c > 8% (64 mmol/mol) & < 10% (86 mmol/mol)	HbA1c >= 10% (86 mmol/mol)	With HbA1c test	Total clients with Type 2 Diabetes
0 - 4 years	0	0	0	0	0	0
5 - 14 years	0	0	0	0	0	0
15 - 24 years	0	0	0	1	1	1
25 - 34 years	1	0	0	0	1	1
35 - 44 years	1	0	3	3	7	19
45 - 54 years	1	1	2	1	5	18
55 - 64 years	2	1	2	1	6	19
65 years and older	0	1	0	0	3	6

### PI05 (previous 12 months)

**HbA1c result recorded within the previous 12 months**

Male	HbA1c <= 7% (53 mmol/mol)	HbA1c > 7% (53 mmol/mol) & <= 8% (64 mmol/mol)	HbA1c > 8% (64 mmol/mol) & < 10% (86 mmol/mol)	HbA1c >= 10% (86 mmol/mol)	With HbA1c test	Total clients with Type II Diabetes
0 - 4 years	0	0	0	0	0	0
5 - 14 years	0	0	0	0	0	0
15 - 24 years	0	0	0	1	1	1
25 - 34 years	1	0	0	0	1	1
35 - 44 years	2	0	3	3	8	19
45 - 54 years	1	1	2	1	5	18
55 - 64 years	2	1	3	1	7	19
65 years and older	0	1	0	1	2	6

**Internal validation**

For male regular clients aged 65 years and older with HbA1c test result

- the number recorded within the previous 6 months in PI05 (Value=3)

should not be more than

- the number with HbA1c result recorded within the previous 12 months in PI05 (Value=2).

Please amend your data or provide a comment.

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25/Oct/2023 12:12

**AIHW rule:** The numerators by age group and sex for PI05 6 months should be less than or equal to the corresponding numerators by age group and sex for PI05 12 months (NVR-05B)

**Issue:** The “*With HbA1c test*” value for Male clients 65 years and older for the previous 6 months is larger than the corresponding “*With HbA1c test*” value for the previous 12 months

**Action required if values need amending:** Change the values so the “*With HbA1c test*” value for Male clients aged 65 years and older for the previous 6 months is less than or equal to the corresponding “*With HbA1c test*” value for the previous 12 months

### Issue 3 – Denominators (6 and 12 months) are different to the denominators for PI07, PI18 and PI23

**PI05 (previous 6 months)**

**PI05: HbA1c recorded and PI06: HbA1c result** [nKPI User guide](#)

Indigenous regular clients with Type 2 Diabetes whose HbA1c measurement result was within a specified level

HbA1c result recorded within the previous 6 months

Male	HbA1c <= 7% (53 mmol/mol)	HbA1c > 7% (53 mmol/mol) & <= 8% (64 mmol/mol)	HbA1c > 8% (64 mmol/mol) & < 10% (86 mmol/mol)	HbA1c >= 10% (86 mmol/mol)	With HbA1c test	Total clients with Type 2 Diabetes
0 - 4 years	0	0	0	0	0	0
5 - 14 years	0	0	0	1	1	1
15 - 24 years	0	0	0	0	0	2

**PI07**

**PI07: Proportion of regular clients with a chronic disease for whom a Chronic Disease Management Plan was prepared**

Indigenous regular clients with a chronic disease and for whom a GP Management Plan was claimed within the previous 24 months

Clients with Type 2 Diabetes, for whom a GP Management Plan was claimed within the previous 24 months

Male	In Person	Telehealth	Total clients with Type 2 Diabetes
0 - 4 years	0	0	0
5 - 14 years	0	0	0
15 - 24 years	0	0	1

**PI18**

**PI18: Kidney function test recorded** [nKPI User guide](#)

Indigenous regular clients with a selected chronic disease who have had a selected kidney function test recorded

Clients with Type 2 Diabetes, with test result recorded within the previous 12 months

Male	eGFR only	ACR only	Both an eGFR and an ACR	Neither eGFR nor ACR	Total clients with Type 2 Diabetes
18 - 24 years	0	1	0	0	1


**PI23**

**PI23: Blood pressure recorded and PI24: Blood pressure less than or equal to 130/80mmHg**

Indigenous regular clients with Type 2 Diabetes whose blood pressure measurement result was less than or equal to 130/80mmHg

**Clients with Type 2 Diabetes with BP tested within the previous 6 months**

Male	BP <= 130/80 mmHg	Total clients tested with Type 2 Diabetes	Total clients with Type 2 Diabetes
0 - 4 years	0	0	0
5 - 14 years	0	0	0
15 - 24 years	0	1	1

 **Internal validation**

The number of male regular clients aged 15 - 24 years with Type 2 Diabetes should be the same in PI05 6 Months (Value=2), PI05 12 Months (Value=1), PI07 (Value=1), PI23 (Value=1).

Please amend your data or provide a comment.

25/Oct/2023 12:16

**AIHW rule:** The denominators by age group and sex for PI05 (6 and 12 months) should be the same as the denominators for PI07, PI18 (Type 2 diabetes) and PI23 (NVR-05C)

**Issue:** The Male 15 – 24 years “*Total clients with Type 2 Diabetes*” value on PI05 is greater than the corresponding values on PI07, PI18 and PI23

**Action required if values need amending:** Amend the applicable values so the Male 15 – 24 years “*Total clients with Type 2 Diabetes*” value on PI05 is the same as the corresponding values on PI07, PI18 and PI23

## Issue 4 – Numerators are different to the denominator for PI06

**PI05: HbA1c recorded and PI06: HbA1c result** [nKPI User guide](#)

Indigenous regular clients with Type 2 Diabetes whose HbA1c measurement result was within a specified level

HbA1c result recorded within the previous 6 months

Male	HbA1c <= 7% (53 mmol/mol)	HbA1c > 7% (53 mmol/mol) & <= 8% (64 mmol/mol)	HbA1c > 8% (64 mmol/mol) & < 10% (86 mmol/mol)	HbA1c >= 10% (86 mmol/mol)	With HbA1c test	Total clients with Type 2 Diabetes
0 - 4 years	0	0	1	0	0	0

**Internal validation**

For HbA1c result recorded within the previous 6 months Male;  
Row: 0 - 4 years; the sum of

- HbA1c <= 7% (53 mmol/mol) (Value=0)
- HbA1c > 7% (53 mmol/mol) & <= 8% (64 mmol/mol) (Value=0)
- HbA1c > 8% (64 mmol/mol) & < 10% (86 mmol/mol) (Value=1)
- HbA1c >= 10% (86 mmol/mol) (Value=0)

should equal

- With HbA1c test (Value=0)

25/Oct/2023 12:27

**AIHW rule:** The numerators for PI05 by age group and sex should be the same as the denominators for PI06 by age group and sex (NVR-05D)

**Issue:** The values for Male 0 – 4 years aren't the same as the corresponding “*With HbA1c test*” value

**Action required if values need amending:** Amend the values so the Male 0 – 4 years values are the same as the corresponding “*With HbA1c test*” value



## Issue 5 – 0 – 4 years denominator is greater than 0

**PI05: HbA1c recorded and PI06: HbA1c result** [nKPI User guide](#)

Indigenous regular clients with Type 2 Diabetes whose HbA1c measurement result was within a specified level

HbA1c result recorded within the previous 6 months

Male	HbA1c <= 7% (53 mmol/mol)	HbA1c > 7% (53 mmol/mol) & <= 8% (64 mmol/mol)	HbA1c > 8% (64 mmol/mol) & < 10% (86 mmol/mol)	HbA1c >= 10% (86 mmol/mol)	With HbA1c test	Total clients with Type 2 Diabetes
0 - 4 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input style="border: 2px solid red;" type="text" value="1"/>

**Internal validation**

For HbA1c result recorded within the previous 6 months Male;

Row: 0 - 4 years; Column: Total clients with Type 2 Diabetes (Value=1)

is unlikely to be greater than zero, due to the rarity of this condition in infants.

Please confirm your data is correct or, if necessary, amend your data.

19/Apr/2021 10:06

**AIHW rule:** The denominators for PI05 (6 and 12 months) for Indigenous regular clients aged 0 – 4 should equal 0 (NVR-05Z)

**Issue:** The denominators for PI05 (6 and 12 months) for male Indigenous regular clients aged 0 – 4 years doesn't equal 0

**Action required if values need amending:** Amend the applicable values to ensure the denominators for PI05 (6 and 12 months) for male Indigenous regular clients aged 0 – 4 equals 0

## PI06: HbA1c result

**PI05: HbA1c recorded and PI06: HbA1c result**

Indigenous regular clients with Type 2 Diabetes whose HbA1c measurement result was within a specified level

HbA1c result recorded within the previous 6 months

Male	HbA1c <= 7% (53 mmol/mol)	HbA1c > 7% (53 mmol/mol) & <= 8% (64 mmol/mol)	HbA1c > 8% (64 mmol/mol) & < 10% (86 mmol/mol)	HbA1c >= 10% (86 mmol/mol)	With HbA1c test	Total clients with Type 2 Diabetes
0 - 4 years	0	0	0	0	0	0
5 - 14 years	0	0	0	0	0	0
15 - 24 years	0	0	0	1	1	1
25 - 34 years	1	0	0	0	1	1
35 - 44 years	1	0	3	3	7	19
45 - 54 years	1	1	2	1	5	18
55 - 64 years	2	1	2	1	6	19
65 years and older	0	1	0	0	1	6
<b>Total males</b>	<b>5</b>	<b>3</b>	<b>7</b>	<b>6</b>	<b>21</b>	<b>64</b>
	8%	5%	11%	9%	33%	

The cells highlighted above in green make up **PI06: HbA1c result**. All data validation issues for PI06 involve at least one of these cells.

# Issue 1 – Numerator for 6 months is larger than the numerator for 12 months

## PI06 (previous 6 months)

**PI05: HbA1c recorded and PI06: HbA1c result**

Indigenous regular clients with Type 2 Diabetes whose HbA1c measurement result was within a specified level

**HbA1c result recorded within the previous 6 months**

Male	HbA1c <= 7% (53 mmol/mol)	HbA1c > 7% (53 mmol/mol) & <= 8% (64 mmol/mol)	HbA1c > 8% (64 mmol/mol) & < 10% (86 mmol/mol)	HbA1c >= 10% (86 mmol/mol)	With HbA1c test	Total clients with Type 2 Diabetes
0 - 4 years	0	0	0	1	0	0

## PI06 (previous 12 months)

HbA1c result recorded within the previous 12 months

Male	HbA1c <= 7% (53 mmol/mol)	HbA1c > 7% (53 mmol/mol) & <= 8% (64 mmol/mol)	HbA1c > 8% (64 mmol/mol) & < 10% (86 mmol/mol)	HbA1c >= 10% (86 mmol/mol)	With HbA1c test	Total clients with Type II Diabetes
0 - 4 years	0	0	0	0	0	0

**Internal validation**

For male regular clients aged 0 - 4 years with HbA1c >= 10% (86 mmol/mol) result

- the number recorded within the previous 6 months in PI06 (Value=1)

should not be more than

- the number with HbA1c result recorded within the previous 12 months in PI06 (Value=0).

Please amend your data or provide a comment.

25/Oct/2023 12:42

**AIHW rule:** Each HbA1c result by age group and sex for PI06 6 months (numerator), should be less than or equal to the corresponding HbA1c result by age group and sex for PI06 12 months (numerator) (NVR-06A)


**Issue:** The Male 0 – 4 years “HbA1c >= 10% (86 mmol/mol)” value for the previous 6 months is larger than the corresponding “HbA1c >= 10% (86 mmol/mol)” value for the previous 12 months

**Action required if values need amending:** Change the values to ensure the Male 0 – 4 years “HbA1c >= 10% (86 mmol/mol)” value for the previous 6 months is less than or equal to the corresponding “HbA1c >= 10% (86 mmol/mol)” value for the previous 12 months

## Issue 2 – Numerators don't add up to the denominator

PI06

35 - 44 years	1	0	3	4	7
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 **Internal validation**

For HbA1c result recorded within the previous 6 months Male;  
Row: 35 - 44 years; the sum of

- HbA1c <= 7% (53 mmol/mol) (Value=1)
- HbA1c > 7% (53 mmol/mol) & <= 8% (64 mmol/mol) (Value=0)
- HbA1c > 8% (64 mmol/mol) & < 10% (86 mmol/mol) (Value=3)
- HbA1c >= 10% (86 mmol/mol) (Value=4)

should equal

- With HbA1c test (Value=7)

25/Oct/2023 12:45

**AIHW rule:** The sum of the components by HbA1c results, age group and sex (numerator) should be equal to the denominator by age group and sex (NVR-06B)

**Issue:** The 35 – 44 years “HbA1c results” values don't add up to the “With HbA1c test” value

**Action required if values need amending:** Amend the values so the sum of the 35 – 44 years “HbA1c results” values is equal to the value in the “With HbA1c test”

## Issue 3 – Denominators for each HbA1c result aren't the same within each age group and sex – XML only

**AIHW rule:** The denominators for each HbA1c result (<7%; >7% and ≤8%; >8% and <10%; and > 10%) should be the same within each age/sex group for PI06 6 months

The denominators for each HbA1c result (<7%; >7% and ≤8%; >8% and <10%; and > 10%) should be the same within each age/sex group for PI06 12 months (NVR-06D)

**Issue:** The denominators for each HbA1c result (<7%; >7% and ≤8%; >8% and <10%; and > 10%) isn't the same within each age/sex group for PI06 6 months

**Action required if values need amending:** Amend the applicable values to ensure the denominators for each HbA1c result (<7%; >7% and ≤8%; >8% and <10%; and > 10%) are the same within each age/sex group for PI06 12 months



This issue will only arise as part of direct load as the data from your CIS has four separate denominators (one for each numerator (<7%; >7% and ≤8%; >8% and <10%; and > 10%) and sometimes these are different


## Issue 4 – Denominator (previous 6 months) is larger than the denominator (previous 12 months)

### PI06 (previous 6 months)

25 - 34 years	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="12"/>	<input type="text" value="1"/>
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### PI06 (previous 12 months)

25 - 34 years	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="7"/>	<input type="text" value="1"/>
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 **Internal validation**

For male regular clients aged 25 - 34 years with HbA1c test result

- the number recorded within the previous 6 months in PI05 (Value=12)

should not be more than

- the number with HbA1c result recorded within the previous 12 months in PI05 (Value=7).

Please amend your data or provide a comment.

25/Oct/2023 12:53


**AIHW rule:** The denominator components for each HbA1c result by age group and sex for 6 months should be less than or equal to the denominator components for each HbA1c result by age group and sex for 12 months (NVR-06E)

**Issue:** The Male 25 – 34 years (...previous 6 months) “*With HbA1c Test*” value is larger than the Male 25 – 34 years (...previous 12 months) “*With HbA1c Test*” value

**Action required if values need amending:** Amend the applicable values to ensure the Male 25 – 34 years (...previous 6 months) “*With HbA1c Test*” value is less than or equal to the Male 25 – 34 years (...previous 12 months) “*With HbA1c Test*” value

## Issue 5 – PI06 Denominator is larger than the PI05 denominator

25 - 34 years	<input type="text" value="2"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="12"/>	<input type="text" value="11"/>
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 **Internal validation**

For HbA1c result recorded within the previous 6 months Male;

Row: 25 - 34 years;

- With HbA1c test (Value=12)

should not be more than

- Total clients with Type 2 Diabetes (Value=11)

Please amend your data or provide a comment.

25/Oct/2023 12:53

**AIHW rule:** The PI06 denominator components for each HbA1c result by age group and sex for 6 months should be or equal to the corresponding PI05 denominator components for each HbA1c result by age group and sex

**Issue:** The Male 25 – 34 years (...previous 6 months) “*With HbA1c Test*” value is larger than the corresponding “*Total clients with Type 2 Diabetes*” value

**Action required if values need amending:** Amend the applicable values to ensure the Male 25 – 34 years (...previous 6 months) “*With HbA1c Test*” value is less than or equal to the corresponding “*Total clients with Type 2 Diabetes*” value

# PI07: Chronic disease management plan


## Issue 1 – Numerators are larger than the denominators

**PI07: Proportion of regular clients with a chronic disease for whom a Chronic Disease Management Plan was prepared**

Indigenous regular clients with a chronic disease and for whom a GP Management Plan was claimed within the previous 24 months

Clients with Type 2 Diabetes, for whom a GP Management Plan was claimed within the previous 24 months

Male	In Person	Telehealth	Total clients with Type 2 Diabetes
0 - 4 years	1	0	0

 **Internal validation**

For Clients with Type 2 Diabetes, for whom a Chronic Disease Management Plan was claimed within the previous 24 months  
Male; Row: 0 - 4 years; the sum of

- In Person (Value=1)
- Telehealth (Value=0)

should not be more than

- Total clients with Type 2 Diabetes (Value=0)

Please amend your data or provide a comment.

25/Oct/2023 13:07

**AIHW rule:** Against each row on PI07, the sum of “*In Person*” and “*Telehealth*” cannot be more than “*Total clients with Type 2 Diabetes*” (NVR-07A)

**Issue:** The Male 0 – 4 years “*In Person*” value is larger than the corresponding “*Total clients with Type 2 Diabetes*” value

**Action required if values need amending:** Amend the values to ensure the Male 0 – 4 years “*In Person*” value is less than or equal to the corresponding “*Total client with Type 2 Diabetes*” value

## PI09: Smoking status recorded

PI09: Smoking status recorded and PI10: Smoking status result [nkPI User guide](#)

Indigenous regular clients with a smoking status result

Male	Current smoker	Ex-smoker	Never smoked	Total clients with smoking status recorded	Total clients
11 - 14 years	0	0	3	3	237
15 - 24 years	30	9	44	83	159
25 - 34 years	87	13	30	130	178
35 - 44 years	120	19	26	165	113
45 - 54 years	90	32	38	160	204
55 - 64 years	66	46	34	146	166
65 years and older	18	43	41	102	107

The cells highlighted above in green make up **PI09: Smoking status recorded**. All data validation issues for PI09 involve at least one of these cells.

### Issue 1 – Numerators are larger than the denominator

PI09: Smoking status recorded and PI10: Smoking status result

Indigenous regular clients with a smoking status result

Male	Current smoker	Ex-smoker	Never smoked	Total clients with smoking status recorded	Total clients
15 - 24 years	52	6	50	153	152

**Internal validation**

For Male; Row: 15 - 24 years;

- Total clients with smoking status recorded (Value=153) should not be more than
- Total clients (Value=152)

Please amend your data or provide a comment.

25/Oct/2023 13:34

**AIHW rule:** The numerators by age group and sex should be less than or equal to the denominators by age group and sex (NVR-09A)

**Issue:** The “*Total clients with smoking status recorded*” value for Male 15 – 24 years is larger than the corresponding “*Total clients*” value

**Action required if values need amending:** Amend the values so the “*Total clients with smoking status recorded*” value for Male 15 – 24 years is less than or equal to the corresponding “*Total clients*” value

## Issue 2 – Numerators are different to the denominator for PI10

PI09: Smoking status recorded and PI10: Smoking status result [nKPI User guide](#)

Indigenous regular clients with a smoking status result

Male	Current smoker	Ex-smoker	Never smoked	Total clients with smoking status recorded	Total clients
11 - 14 years	0	0	18	17	236

**Internal validation**

For Male; Row: 11 - 14 years; the sum of

- Current smoker (Value=0)
- Ex-smoker (Value=0)
- Never smoked (Value=18)

should equal

- Total clients with smoking status recorded (Value=17)

Please amend your data or provide a comment.

25/Oct/2023 13:42

**AIHW rule:** The numerators for PI09 by age group and sex should be the same as the denominators for PI10 by age group and sex (NVR-09D)

**Issue:** The Male 11 – 14 years *Current smoker*, *Ex-smoker* and *Never smoked* values are not the same as the corresponding “*Total clients with smoking status recorded*” value

**Action required if values need amending:** Amend the values so the Male 11 – 14 years *Current smoker*, *Ex-smoker* and *Never smoked* values are the same as the corresponding “*Total clients with smoking status recorded*” value



## Issue 3 –Denominator is less than the corresponding denominators in PI03, 14 and 16

### PI09

65 years and older	<input type="text" value="18"/>	<input type="text" value="43"/>	<input type="text" value="41"/>	<input type="text" value="102"/>	<input type="text" value="12"/>
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### PI03


65 years and older	<input type="text" value="66"/>	<input type="text" value="0"/>	<input type="text" value="13"/>
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### PI16

65 years and older	<input type="text" value="69"/>	<input type="text" value="13"/>
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### PI14

65 years and older	<input type="text" value="42"/>	<input type="text" value="13"/>
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 **Internal validation**

For Male regular clients aged 65 years and older, the following values should be equal

- PI03: Total clients (Value=13)
- PI09: Total clients (Value=12)
- PI14: Total clients (Value=13)
- PI16: Total clients (Value=13)

Please amend your data or provide a comment.

25/Oct/2023 13:50

**AIHW rule:** The denominators for clients aged 65 and over in PI09 should be or equal to the corresponding denominators for PI 03,14 and 16 (NVR-09G)

**Issue:** The “*Male - Total clients aged 65 and over*” values on PI03, 14 and 16 are larger than the corresponding “*Total clients*” values on PI09

**Action required if values need amending:** Amend the applicable values so that the “*Male - Total clients aged 65 and over*” value on PI09 is equal to the corresponding “*Total clients*” values on PI03, PI14 and PI16.

### Issue 4 – The sum of denominators for females aged 11-14, 15-24 and 25-34 for PI09 and PI16 is less than the sum of denominators for clients aged < 20 and 20-34 for PI13

**PI09**

Female	Current smoker	Ex-smoker	Never smoked	Total clients with smoking status recorded	Total clients
11 - 14 years	0	0	0	0	0
15 - 24 years	71	8	49	128	174
25 - 34 years	80	16	22	118	149

**PI16**

Alcohol consumption recorded within the previous 24 months		
Female	Alcohol consumption recorded	Total clients
15 - 24 years	110	174
25 - 34 years	99	149

**PI13**

**PI13: First antenatal care visit** [nKPI User guide](#)

Proportion of regular clients who gave birth within the previous 12 months who had their first antenatal visit within specified periods

	Before 11 weeks gestation	11 to 13 weeks	14 to 19 weeks	20 weeks or later	No result recorded	Did not attend an antenatal care visit	Total clients who gave birth	
less than 20 years	(Previous)	0	0	0	1	1	2	8
	(Current)	0	0	0	1	1	2	700
20-34 years	(Previous)	0	0	0	5	3	2	27
	(Current)	0	0	0	5	3	2	700

**Internal validation**

For female regular clients

- the sum aged less than 20 years and 20-34 years who gave birth in PI13 (Values=700 + 52) should not be more than
- the sum aged 11 - 14 years, 15 - 24 years and 25 - 34 years total clients in PI09 (Values=79 + 299 + 325).

Please amend your data or provide a comment.

25/Oct/2023 15:47

**AIHW rule:** The sum of denominators for females aged 11-14, 15-24 and 25-34 for PI09 and 15-24, 25-34 for PI16 should be greater than or equal to the sum of denominators for clients aged < 20 and 20-34 for PI13 (NVR-09N)

**Issue:** The sum of the female aged 11-14, 15-24 and 25-34 years “Total clients” values for PI09 and PI16 is less than the sum of the “Total clients who gave birth” values for female clients aged < 20 and 20 - 34 for PI13

**Action required if values need amending:** Amend the required values so the sum of the female aged 11-14, 15-24 and 25-34 years “*Total clients*” values for P109 and P116 is greater than or equal to the sum of the “*Total clients who gave birth*” values for female clients aged < 20 and 20 - 34 for P113

## Issue 5 – The sum of denominators for females aged 35-44 and 45-54 for PI09 and P116 are less than the sum of the denominators for clients aged 35 + for P113

### PI09





Female	Current smoker	Ex-smoker	Never smoked	Total clients with smoking status recorded	Total clients
15 - 24 years	71	8	49	128	174
25 - 34 years	80	16	22	118	149
35 - 44 years	54	9	15	78	104 ×
45 - 54 years	50	9	12	71	92

### P116

35 - 44 years	67	104 ×
45 - 54 years	62	92

### PI13

PI13: First antenatal care visit						
Indigenous regular clients who had their first antenatal care visit within specified periods						
	Less than 13/40 weeks	13/40 weeks to less than 20/40 weeks	At or after 20/40 weeks	No result recorded	Did not attend an antenatal care visit	Total clients who gave birth
less than 20 years	4	0	1	1	2	8
20-34 years	13	4	5	3	2	27
35 years and older	3	1	1	0	0	197
<b>Total</b>	20	5	7	4	4	232
	9%	2%	3%	2%	2%	

	<p><b>Internal validation</b>  </p> <p>For female regular clients</p> <ul style="list-style-type: none"> <li>the sum aged less than 20 years and 20-34 years who gave birth in PI13 (Values=700 + 52)</li> </ul> <p>should not be more than</p> <ul style="list-style-type: none"> <li>the sum aged 15 - 24 years and 25 - 34 years total clients in PI16 (Values=299 + 325).</li> </ul> <p>Please amend your data or provide a comment.</p> <p>25/Oct/2023 15:47</p>
	<p><b>Internal validation</b></p> <p>For female regular clients</p> <ul style="list-style-type: none"> <li>the sum aged less than 20 years and 20-34 years who gave birth in PI13 (Values=700 + 52)</li> </ul> <p>should not be more than</p> <ul style="list-style-type: none"> <li>the sum aged 11 - 14 years, 15 - 24 years and 25 - 34 years total clients in PI09 (Values=79 + 299 + 325).</li> </ul> <p>Please amend your data or provide a comment.</p> <p>25/Oct/2023 15:47</p>

**AIHW rule:** The sum of denominators for females aged 35-44 and 45-54 for PI09 and PI16 should be greater than or equal to the sum of denominators for clients aged 35+ for PI13 (NVR-090)

**Issue:** The “*Total clients*” values for females aged 35-44 and 45-54 for PI09 and PI16 are less than the sum of the “*Total clients who gave birth*” values for female clients aged 35+ for PI13

**Action required if values need amending:** Amend the applicable values to ensure the “*Total clients*” values for females aged 35-44 and 45-54 for PI09 and PI16 are greater than or equal to the sum of the “*Total clients who gave birth*” values for female clients aged 35+ for PI13

## Issue 6 – The number of clients in an age group do not match the corresponding age groups in PI25

### PI09

**PI09: Smoking status recorded and PI10: Smoking status result** [nKPI User guide](#)

Indigenous regular clients with a smoking status result

Male	Current smoker	Ex-smoker	Never smoked	Total clients with smoking status recorded	Total clients
11 - 14 years	0	0	3	3	72
15 - 24 years	30	9	44	83	159
25 - 34 years	87	13	30	130	179

### PI25

**PI25: STI Tests** [nKPI User guide](#)

Indigenous regular clients who tested for one or more sexually transmissible infections

Clients aged 15-34 who were tested for one or more sexually transmissible infections within the previous 12 months

Male	Total Clients tested	Total clients
15 - 19 years	45	59
20 - 24 years	78	100
25 - 29 years	96	120
30 - 34 years	42	58

**Internal validation**

The number of male regular clients aged 15 - 24 years on PI16 (Value=174) should equal the sum of Total clients in PI25:

- Row: 15 - 19 years; (Value=59)
- Row: 20 - 24 years; (Value=100)

Please amend your data or provide a comment.

25/Oct/2023 15:46

**AIHW rule:** The number of regular clients in a particular age group on PI09 should equal the sum of the corresponding age groups in PI25

**Issue:** The number of male clients aged 25-34 on PI09 is larger than the combined number of clients between 15 and 19 and 20 and 24 on PI25

**Action required if values need amending:** Amend the applicable values to ensure the number of male clients aged 25-34 on PI09 equals the combined number of clients between 25 and 29 and 30 and 34 on PI25

## PI10: Smoking status result

**PI09: Smoking status recorded and PI10: Smoking status result**

Indigenous regular clients with a smoking status result

Male	Current smoker	Ex-smoker	Never smoked	Total clients with smoking status recorded	Total clients
15 - 24 years	52	6	50	108	152
25 - 34 years	60	4	11	75	104
35 - 44 years	47	5	9	61	76
45 - 54 years	48	8	6	62	79
55 - 64 years	19	10	5	34	40
65 years and older	5	3	1	9	12
<b>Total males</b>	231	36	82	349	463
	50%	8%	18%	75%	


The cells highlighted above in green make up **PI10: Smoking status result**. All data validation issues for PI10 involve at least one of these cells.

## Issue 1 – Numerators don't add up to the denominators

PI09: Smoking status recorded and PI10: Smoking status result [nKPI User guide](#)

Indigenous regular clients with a smoking status result

Male	Current smoker	Ex-smoker	Never smoked	Total clients with smoking status recorded	Total clients
11 - 14 years	0	0	18	17	236

 **Internal validation**

For Male; Row: 11 - 14 years; the sum of

- Current smoker (Value=0)
- Ex-smoker (Value=0)
- Never smoked (Value=18)

should equal

- Total clients with smoking status recorded (Value=17)

Please amend your data or provide a comment.

25/Oct/2023 13:42

**AIHW rule:** The sum of the numerator components by age group and sex should be equal to the denominators by age group and sex (NVR-10A)

**Issue:** The Male 15 – 24 years “*Total clients with smoking status recorded*” value is less than the combined “*Current smoker*”, “*Ex-smoker*” and “*Never smoked*” values

**Action required if values need amending:** Amend the applicable values to ensure the Male 15 -24 years “*Total clients with smoking status recorded*” value is equal to the combined “*Current smoker*”, “*Ex-smoker*” and “*Never smoked*” values

## Issue 2 – Denominators for each status don’t match within groups – XML ONLY

**AIHW rule:** The denominators for each smoking status (current smoker, ex-smoker, never smoked) should be the same within each age/sex group (NVR-10C)

**Issue:** The denominators for each smoking status (current smoker, ex-smoker, never smoked) aren’t the same within each age/sex group

**Action required if values need amending:** Amend the applicable values as required to ensure the denominators for each smoking status are the same within each age/sex group. Note that you can only see one value for each denominator on the screen. If the value shown on the screen is correct, delete the value, re-enter it and then press *Save*. This should then clear the data validation flag



This issue will only arise as part of direct load, as the data transferred from your CIS has three separate denominators for each smoking status (current smoker, ex-smoker, never smoked). Sometimes these values can be different within each age/sex group, and this is what generates the issue

## Issue 3 – Denominators for females in PI10 are less than the corresponding denominators on PI11

PI10

35 - 44 years	<input type="text" value="54"/>	<input type="text" value="9"/>	<input type="text" value="15"/>	<input style="border: 2px solid red;" type="text" value="78"/>	<input type="text" value="104"/>
45 - 54 years	<input type="text" value="50"/>	<input type="text" value="9"/>	<input type="text" value="12"/>	<input style="border: 2px solid red;" type="text" value="71"/>	<input type="text" value="92"/>
55 - 64 years	<input type="text" value="19"/>	<input type="text" value="6"/>	<input type="text" value="5"/>	<input style="border: 2px solid red;" type="text" value="30"/>	<input type="text" value="41"/>
65 years and older	<input type="text" value="8"/>	<input type="text" value="8"/>	<input type="text" value="9"/>	<input style="border: 2px solid red;" type="text" value="25"/>	<input type="text" value="31"/>

PI11

35 years and older	<input type="text" value="3"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input style="border: 2px solid red;" type="text" value="292"/>
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**Internal validation**

For female regular clients aged 35 years and older who gave birth

- the number with smoking status recorded in PI11 (Value=292)

should not be more than

- the number in PI13 (Value=197).

Please amend your data or provide a comment.

25/Oct/2023 16:00

**AIHW rule:** Against total row on PI11: “*Total clients who gave birth with smoking status recorded*” must be less than or equal to total females row on PI10: “*Total clients with smoking status recorded*” (NVR-10D)

**Issue:** The Female 35 years and older “*Total clients*” value for PI11 is more than the sum of the Female 35 + “*Total clients*” values for PI10


**Action required if values need amending:** Amend the applicable values to ensure the Female 35 years and older “*Total clients*” value for PI11 is less than or equal to the sum of the Female 35 + “*Total clients*” values for PI10



## PI11: Smoking status result of women who gave birth

### Issue 1 – Numerators don't add up to the denominator

PI11: Smoking status result of women who gave birth <span style="float: right;"><a href="#">nKPI User guide</a></span>				
Smoking status of regular clients who gave birth within the previous 12 months with smoking status recorded during pregnancy				
	Current smoker	Ex-smoker	Never smoked	Total clients who gave birth with smoking status recorded
less than 20 years	0	0	1	0

 **Internal validation**

For Row: less than 20 years; the sum of

- Current smoker (Value=2)
- Ex-smoker (Value=0)
- Never smoked (Value=1)

should equal

- Total clients who gave birth with smoking status recorded (Value=0)

Please amend your data or provide a comment.

25/Oct/2023 16:14

**AIHW rule:** The sum of the numerator components by age group should be equal to the denominator by age group (NVR-11A)

**Issue:** The values in the “*Current smoker*” “*Ex-smoker*” and “*Never smoked*” cells don't add up to equal the value in the “*Total clients who gave birth with smoking status recorded*” cell

**Action required if values need amending:** Amend the applicable values to ensure the sum of the values in the “*Current smoker*” “*Ex-smoker*” and “*Never smoked*” cells equal the value in the “*Total clients who gave birth with smoking status recorded*” cell

## Issue 2 – Denominator is larger than the denominator for PI13

### PI11

**PI11: Smoking status result of women who gave birth** [nKPI User guide](#)

Smoking status of regular clients who gave birth within the previous 12 months with smoking status recorded during pregnancy

	Current smoker	Ex-smoker	Never smoked	Total clients who gave birth with smoking status recorded
less than 20 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
20 - 34 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="28"/>

### PI13

20-34 years	<input type="text" value="13"/>	<input type="text" value="4"/>	<input type="text" value="5"/>	<input type="text" value="3"/>	<input type="text" value="2"/>	<input type="text" value="24"/>	<input type="button" value="x"/>
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**Internal validation**

For female regular clients aged 20 to 34 years who gave birth

- the sum with smoking status recorded in PI11 (Value=28) should not be more than
- the number in PI13 (Value=24).

Please amend your data or provide a comment.

25/Oct/2023 16:16

**AIHW rule:** Against each row on PI11 “*Total clients who gave birth with smoking status recorded*” must be less than or equal to the corresponding row on PI13 “*Total clients who gave birth*” (NVR-11B)

**Issue:** The “*Total clients who gave birth with smoking status recorded*” total on PI11 for 20 – 24 years and 25 – 34 years is more than the “*Total clients who gave birth*” value on PI13 for 20-34 years

**Action required if values need amending:** Amend the values to ensure the 20 – 24 years and 25 – 34 years “*Total clients who gave birth with smoking status recorded*” values on PI11 add up to be less than or equal to the 20-34 years “*Total clients who gave birth*” value on PI13

## Issue 3 – Denominators for each status are different – XML ONLY

**AIHW rule:** The denominators for each smoking status (current smoker, ex-smoker and never smoked) should be the same within each age group (NVR-11E)

**Issue:** The denominators for each smoking status (current smoker, ex-smoker and never smoked) are different within each age group

**Action required if values need amending:** Amend the applicable values to ensure the denominators for each smoking status (current smoker, ex-smoker and never smoked) are the same within each age group. Note that you can only see one value for each denominator on the screen. If the value shown is correct, delete the value, enter it in again and then press **Save**. This should then clear the data validation message



This issue will only arise as part of direct load, as the data transferred from your CIS has three separate denominators for each smoking status (current smoker, ex-smoker, never smoked). Sometimes these values are different within each age group, and this is what generates the issue

## PI12: Body Mass Index

### Issue 1 – Denominators for BMI categories don't match – XML ONLY

**AIHW rule:** The denominators for each BMI category (underweight, normal, overweight, and obese) should be the same within each age/sex group (NVR-12A)

**Issue:** The denominators for each BMI category (underweight, normal, overweight, and obese) aren't the same within each age/sex group

**Action required if values need amending:** Amend the applicable value to ensure the denominators for each BMI category (underweight, normal, overweight, and obese) are the same within each age/sex group. Note that you can only see one value for each denominator on the screen. If the value shown is correct, delete the value, enter it in again and then press **Save**. This should then clear the data validation message



This issue will only arise as part of direct load, as the data transferred from your CIS has two separate denominators (one for each numerator, underweight, normal, overweight, and obese) and sometimes these are different

## Issue 2 – The denominators for PI12 are greater than the denominators for PI03, PI09, PI14 and PI16

### PI12

**PI12: Body Mass Index** [nKPI User guide](#)

Indigenous regular clients who have a BMI result within specified categories

BMI results in the previous 24 months

Male	Underweight (BMI < 18.5)	Normal Weight (BMI >=18.5 & < 25)	Overweight (BMI >=25 & < 30)	Obese (BMI >= 30)	Not Calculated	Total clients
18 - 24 years	0	0	0	0	0	0
25 - 34 years	20	126	6	3	0	156

### PI03

Clients aged 15 years and over, with assessment within the previous 24 months

Male	In Person	Telehealth	Total clients
15 - 24 years	128	2	156
25 - 34 years	118	3	155

### PI09

**PI09: Smoking status recorded and PI10: Smoking status result** [nKPI User guide](#)

Indigenous regular clients with a smoking status result

Male	Current smoker	Ex-smoker	Never smoked	Total clients with smoking status recorded	Total clients
11 - 14 years	0	0	17	17	87
15 - 24 years	56	12	67	135	156
25 - 34 years	78	15	53	146	155

### PI14

25 - 34 years	8	155
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### PI16

Alcohol consumption recorded within the previous 24 months

Male	Alcohol consumption recorded	Total clients
15 - 24 years	123	156
25 - 34 years	130	155

**Internal validation**

The following value(s)

- PI12: BMI results in the previous 24 months Male; Row: 25 - 34 years; (Value=156)

should equal

- PI03: Total clients (Value=155)
- PI09: Total clients (Value=155)
- PI14: Total clients (Value=155)
- PI16: Total clients (Value=155)

Please amend your data or provide a comment.

25/Oct/2023 16:32

**AIHW rule:** Against each row on every table, “*Total clients*” by age group and sex for PI12 should equal the corresponding “*Total clients*” value in PI03 25+, PI09, PI14 and PI16 (NVR-12B)

**Note:** The row for PI12 ages 18-24 won’t be equal to PI09, 14 or 16 as they are 15-24. So the row needs to be less than or equal to.

**Issue:** The Male 25 – 34 years “*Total clients with BMI recorded*” value in PI12 is larger than the corresponding “*Total clients*” values for PI03, PI09, PI14 and PI16

**Action required if values need amending:** Amend the applicable values to ensure the Male 25 – 34 years “*Total clients with BMI recorded*” value in PI12 is less than or equal to the corresponding “*Total clients*” values for PI03, PI09, PI14 and PI16

### Issue 3 – Sum of the numerators not equal to the denominators

**PI12: Body Mass Index** [nKPI User guide](#)

Indigenous regular clients who have a BMI result within specified categories

BMI results in the previous 24 months

Male	Underweight (BMI < 18.5)	Normal Weight (BMI >=18.5 & < 25)	Overweight (BMI >=25 & < 30)	Obese (BMI >= 30)	Not Calculated	Total clients
18 - 24 years	19	120	17	0	0	157

**Internal validation**

For BMI results in the previous 24 months Male; Row: 18 - 24 years; the sum of

- Underweight (BMI < 18.5) (Value=19)
- Normal Weight (BMI >=18.5 & < 25) (Value=120)
- Overweight (BMI >=25 & < 30) (Value=17)
- Obese (BMI >= 30) (Value=0)
- Not Calculated (Value=0)

should equal

- Total clients (Value=157)

Please confirm your data is correct or, if necessary, amend your

25/Oct/2023 16:35

**AIHW rule:** Against each row on every table, THE SUM of *Underweight*, *Normal weight*, *Overweight*, *Obese* and *Not Calculated* should be equal to *Total clients* (NVR-12C)

**Issue:** The Male 18 – 24 years numerator values don’t equal the corresponding “*Total clients*” value

**Action required if values need amending:** Amend the applicable values to ensure the Male 18 – 24 years values equal the corresponding “*Total clients*” value

## PI13: First antenatal care visit

### Issue 1 – Sum of the numerators are not equal to the denominator

PI13: First antenatal care visit [nKPI User guide](#)

Proportion of regular clients who gave birth within the previous 12 months who had their first antenatal visit within specified periods

	Before 11 weeks gestation	11 to 13 weeks	14 to 19 weeks	20 weeks or later	No result recorded	Did not attend an antenatal care visit	Total clients who gave birth
less than 20 years	1	0	2	6	0	0	10

**Internal validation**

For Row: less than 20 years; the sum of

- Before 11 weeks gestation (Value=1)
- 11 to 13 weeks (Value=0)
- 14 to 19 weeks (Value=2)
- 20 weeks or later (Value=6)
- No result recorded (Value=0)
- Did not attend an antenatal care visit (Value=0)

should equal

- Total clients who gave birth (Value=10)

Please amend your data or provide a comment.

25/Oct/2023 16:41

**AIHW rule:** The sum of the numerator components by age group should be equal to the denominator by age group (NVR-13A)

**Issue:** The sum of the “less than 20 years” result values don’t equal the “Total clients who gave birth” value

**Action required if values need amending:** Amend the applicable values so the sum of the “less than 20 years” result values equal the “Total clients who gave birth” value

### Issue 2 – Denominators for different categories are not the same – XML ONLY

**AIHW rule:** The denominators for each category (before 13 weeks, after 13 but before 20 weeks, after 20 weeks, not recorded and no visit) should be the same within each age group (NVR-13B)

**Issue:** The denominators for each category (before 13 weeks, after 13 but before 20 weeks, after 20 weeks, not recorded and no visit) aren’t the same within each age group

**Action required if values need amending:** Amend the applicable values to ensure the denominators for each category (before 13 weeks, after 13 but before 20 weeks, after 20 weeks, not recorded and no visit) are the same within each age group. Note that you can only see one value for each denominator on the screen. If the value shown is correct, delete the value, enter it in again and then press **Save**. This should then clear the data validation message



This issue will only arise as part of direct load, as the data transferred from your CIS has five separate denominators (one for each numerator) and sometimes these are different

## PI14: Immunised against influenza 6+ months


### Issue 1 – Numerators are larger than the denominators

PI14: Immunised against influenza 6+ months [nKPI User guide](#)

Regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients who are immunised against influenza within the last 12 months

Male	Influenza immunised clients	Total clients
6 months - 4 years	1	0

 **Internal validation**

For Indigenous regular clients who are immunised against influenza within the last 12 months Male; Row: 6 months - 4 years;

- PI14: Influenza immunised clients (Value=1) should not be more than
- PI14: Total clients (Value=0)

Please amend your data or provide a comment.

25/Oct/2023 16:43

**AIHW rule:** Against each row on PI14, “*Influenza immunised clients*” cannot be more than “*Total clients*” (NVR-14A)

**Issue:** The Male 6 months – 4 years “*Influenza immunised clients*” value is larger than the corresponding “*Total clients*” value

**Action required if values need amending:** Amend the values so the Male 6 months – 4 years “*Influenza immunised clients*” value is less than or equal to the corresponding “*Total clients*” value

## Issue 2 – The denominators for PI14 are greater than the denominators for PI03, PI09, PI12 and PI16

### PI14

**PI14: Immunised against influenza 6+ months** [nKPI User guide](#)

Regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients who are immunised against influenza

Male	Influenza immunised clients	Total clients
6 months - 4 years	43	190
5 - 14 years	11	227
15 - 24 years	12	159
25 - 34 years	8	179

### PI03

Clients aged 15 years and over, with assessment within the previous 24 months

Male	In Person	Telehealth	Total clients
15 - 24 years	128	2	156
25 - 34 years	118	3	155

### PI09

**PI09: Smoking status recorded and PI10: Smoking status result** [nKPI User guide](#)

Indigenous regular clients with a smoking status result

Male	Current smoker	Ex-smoker	Never smoked	Total clients with smoking status recorded	Total clients
11 - 14 years	0	0	17	17	87
15 - 24 years	56	12	67	135	156
25 - 34 years	78	15	53	146	155


### PI12

Male	Underweight (BMI < 18.5)	Normal Weight (BMI >=18.5 & < 25)	Overweight (BMI >=25 & < 30)	Obese (BMI >= 30)	Not Calculated	Total clients
18 - 24 years	5	36	16	33	29	119
25 - 34 years	2	45	38	59	34	155



**PI16**

Alcohol consumption recorded within the previous 24 months		
Male	Alcohol consumption recorded	Total clients
15 - 24 years	123	156
25 - 34 years	130	155

 **Internal validation**

The following value(s)

- PI12: BMI results in the previous 24 months Male; Row: 25 - 34 years; (Value=156)

should equal

- PI03: Total clients (Value=155)
- PI09: Total clients (Value=155)
- PI14: Total clients (Value=155)
- PI16: Total clients (Value=155)

Please amend your data or provide a comment.

25/Oct/2023 16:49

**AIHW rule:** Against each row on every table, “*Total clients*” by age group and sex for PI12 should equal the corresponding “*Total clients*” value in PI03 25+, PI09, PI14 and PI16 (NVR-12B)

**Note:** The row for PI12 ages 18-24 won’t be equal to PI09, 14 or 16 as they are 15-24. So the row needs to be less than or equal to.

**Issue:** The Male 25 – 34 years “*Total clients*” value in PI14 is larger than the corresponding “*Total clients*” values for PI03, PI09, PI12 and PI16

**Action required if values need amending:** Amend the applicable values to ensure the Male 25 – 34 years “*Total clients*” value in PI14 is less than or equal to the corresponding “*Total clients*” values for PI03, PI09, PI12 and PI16


# PI16: Alcohol consumption recorded

## Issue 1 – Numerator is larger than the denominator

**PI16: Alcohol consumption recorded**  
 Indigenous regular clients whose alcohol consumption status has been recorded

**Alcohol consumption recorded within the previous 24 months**

Male	Alcohol consumption recorded	Total clients
15 - 24 years	82	81

 **Internal validation**

For Alcohol consumption recorded within the previous 24 months  
 Male; Row: 15 - 24 years;

- Alcohol consumption recorded (Value=82)  
should not be more than
- Total clients (Value=81)

Please amend your data or provide a comment.

25/Oct/2023 17:09

**AIHW rule:** The numerators by age group and sex should be less than or equal to the denominators by age group and sex (NVR-16A)

**Issue:** The Male 15 – 24 years “*Alcohol consumption recorded*” value is greater than the “*Total clients*” value

**Action required if values need amending:** Amend the values so the Male 15 – 24 years “*Alcohol consumption recorded*” value is less than or equal to the “*Total clients*” value

## Issue 2 – The denominators for PI16 are greater than the denominators for PI03, PI09, PI12 and PI14

### PI16

**PI16: Alcohol consumption recorded** [nKPI User guide](#)

Indigenous regular clients whose alcohol consumption status has been recorded

Alcohol consumption recorded within the previous 24 months

Male	Alcohol consumption recorded	Total clients
15 - 24 years	52	159
25 - 34 years	88	179

### PI03

Clients aged 15 years and over, with assessment within the previous 24 months

Male	In Person	Telehealth	Total clients
15 - 24 years	128	2	156
25 - 34 years	118	3	155

### PI09

**PI09: Smoking status recorded and PI10: Smoking status result** [nKPI User guide](#)

Indigenous regular clients with a smoking status result

Male	Current smoker	Ex-smoker	Never smoked	Total clients with smoking status recorded	Total clients
11 - 14 years	0	0	17	17	87
15 - 24 years	56	12	67	135	156
25 - 34 years	78	15	53	146	155

### PI12

Male	Underweight (BMI < 18.5)	Normal Weight (BMI >=18.5 & < 25)	Overweight (BMI >=25 & < 30)	Obese (BMI >= 30)	Not Calculated	Total clients
18 - 24 years	5	36	16	33	29	119
25 - 34 years	2	45	38	59	34	155

### PI14

15 - 24 years	12	159
25 - 34 years	8	155

**Internal validation**

The following value(s)

- PI12: BMI results in the previous 24 months Male; Row: 25 - 34 years; (Value=155)

should equal

- PI03: Total clients (Value=155)
- PI09: Total clients (Value=155)
- PI14: Total clients (Value=155)
- PI16: Total clients (Value=179)

Please amend your data or provide a comment.

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25/Oct/2023 17:13

**AIHW rule:** Against each row on every table, “*Total clients*” by age group and sex for PI12 should equal the corresponding “*Total clients*” value in PI03 25+, PI09, PI14 and PI16 (NVR-12B)

**Note:** The row for PI12 ages 18-24 won’t be equal to PI09, 14 or 16 as they are 15-24. So the row needs to be less than or equal to.

**Issue:** The Male 25 – 34 years “*Total clients*” value in PI16 is larger than the corresponding “*Total clients*” values for PI03, PI09, PI12 and PI16

**Action required if values need amending:** Amend the applicable values to ensure the Male 25 – 34 years “*Total clients with BMI recorded*” value in PI16 is less than or equal to the corresponding “*Total clients*” values for PI03, PI09, PI12 and PI14

## PI18: Kidney function test recorded

### Issue 1 – Numerators add up to more than the denominator for an age group

**PI18: Kidney function test recorded** [nKPI User guide](#)

Indigenous regular clients with a selected chronic disease who have had a selected kidney function test recorded

Clients with Type 2 Diabetes, with test result recorded within the previous 12 months

Male	eGFR only	ACR only	Both an eGFR and an ACR	Neither eGFR nor ACR	Total clients with Type 2 Diabetes
18 - 24 years	0	1	0	0	1
25 - 34 years	3	0	4	5	11

**Internal validation**

For Clients with Type 2 Diabetes, with test result recorded within the previous 12 months Male; Row: 25 - 34 years; the sum of

- eGFR only (Value=3)
- ACR only (Value=0)
- Both an eGFR and an ACR (Value=4)
- Neither eGFR nor ACR (Value=5)

should equal

- Total clients with Type 2 Diabetes (Value=11)

Please amend your data or provide a comment.

25/Oct/2023 17:16

**AIHW rule:** Against each row on every table, the sum of *eGFR only*, *ACR only*, *Both eGFR and ACR* and *Neither eGFR nor ACR* should be equal to *Total clients with Type 2 Diabetes* OR *Total Clients with CVD* OR *Total clients with Type 2 Diabetes and/or CVD* (NVR-18A, 18F)

**Issue:** The sum of the Male 25 – 34 years “*eGFR only*” “*ACR only*” “*Both an eGFR and an ACR*” and “*Neither eGFR nor ACR*” values is greater than the corresponding “*Total clients with Type 2 Diabetes*” value

**Action required if values need amending:** Amend the values so the sum of the Male 25 – 34 years “*eGFR only*” “*ACR only*” “*Both an eGFR and an ACR*” and “*Neither eGFR nor ACR*” values are less than or equal to the corresponding “*Total clients with Type 2 Diabetes*” value

## Issue 2 – Denominators on PI18 don't match the denominators on PI05, PI07, and PI23

### PI18

**PI18: Kidney function test recorded** [nKPI User guide](#)

Indigenous regular clients with a selected chronic disease who have had a selected kidney function test recorded

Clients with Type 2 Diabetes, with test result recorded within the previous 12 months

Male	eGFR only	ACR only	Both an eGFR and an ACR	Neither eGFR nor ACR	Total clients with Type 2 Diabetes
18 - 24 years	0	1	0	0	1
25 - 34 years	3	0	4	4	12

### PI05

0 - 4 years	0	0	0	0	0	0
5 - 14 years	0	0	0	1	1	1
15 - 24 years	1	0	1	0	2	4
25 - 34 years	2	1	2	3	8	11



The above PI05 screenshot is an example. The same cell would also be highlighted on PI07, and PI23 if is selected.

**Internal validation**

The number of male regular clients aged 25 - 34 years with Type 2 Diabetes should be the same in PI05 6 Months (Value=11), PI05 12 Months (Value=11), PI07 (Value=11), PI18 (Value=12), PI23 (Value=11).

Please amend your data or provide a comment.

25/Oct/2023 17:18

**AIHW rule:** Against each row on each Type 2 Diabetes table, “Total clients with Type 2 Diabetes” should equal the corresponding “Total clients with Type 2 Diabetes” value in PI05 (6 and 12 months) PI07 and PI23 (NVR-18B)

**Issue:** The Male 25 – 34 years “Total clients with Type 2 Diabetes” value for PI18 is greater than the Male 25 – 34 years “Total clients with Type 2 Diabetes” value for PI05, PI07, and PI23

**Action required if values need amending:** Amend the values so the Male 25 – 34 years “Total clients with Type 2 Diabetes” value for PI18 is the same as the Male 25 – 34 years “Total clients with Type 2 Diabetes” value for PI05, PI07, and PI23

### Issue 3 – Denominators for eGFR and ACR don't match – XML ONLY

**AIHW rule:** The denominators for each test (eGFR; ACR; and eGFR + ACR) should be the same within each age/sex group (NVR-18C)

**Issue:** The denominators for each test (eGFR; ACR; and eGFR + ACR) are different within each age/sex group

**Action required if values need amending:** Amend the applicable values to ensure the denominators for each test (eGFR; ACR; and eGFR + ACR) are the same within each age/sex group. Note that you can only see one value for each denominator on the screen. If the value shown on the screen is correct, delete the value, enter it in again and then press **Save**. This should then clear the data validation flag



This issue will only arise as part of direct load, as the data transferred from your CIS has 3 separate denominators (one for each numerator eGFR, ACR and eGFR + ACR) and sometimes these are different

## Issue 4 – eGFR numerators on PI18 don't add up to the denominator on PI19

### PI18

**PI18: Kidney function test recorded** [nKPI User guide](#)

Indigenous regular clients with a selected chronic disease who have had a selected kidney function test recorded

Clients with Type 2 Diabetes, with test result recorded within the previous 12 months

Male	eGFR only	ACR only	Both an eGFR and an ACR	Neither eGFR nor ACR	Total clients with Type 2 Diabetes
18 - 24 years	0	1	0	0	1
25 - 34 years	3	0	5	4	11

### PI19

**PI19: Kidney function result categories** [nKPI User guide](#)

Indigenous regular clients with a selected chronic disease who have a kidney function result within specified categories

Clients with Type 2 Diabetes who had both an eGFR and an ACR result recorded within the previous 12 months categorised as:

Male	Normal Risk	Low Risk	Moderate Risk	High Risk	Type 2 Diabetes, with both eGFR and ACR
18 - 24 years	0	0	0	0	0
25 - 34 years	1	2	1	0	4

**Internal validation**

For male regular clients aged 25 - 34 years with Type 2 Diabetes

- the number who had both eGFR and ACR recorded in PI19 (Value=4)

should be the same as

- the number who had both eGFR and ACR recorded in PI18 (Value=5).

Please amend your data or provide a comment.

25/Oct/2023 17:21

**AIHW rule:** Against each row on every table, “Both eGFR and ACR” should equal “Total clients with Type 2 Diabetes who had both eGFR and ACR” or “Total clients with CVD who had both eGFR and ACR” or “Total clients with Type 2 Diabetes and/or CVD who had both eGFR and ACR” on the corresponding row in PI19 (NVR-18D, E and H)

**Issue:** The Male 25 – 34 years “Both an eGFR and an ACR” value on PI18 don't add up to the Male 25 – 34 years “Total clients with Type 2 Diabetes with an eGFR test” value on PI19

**Action required if values need amending:** Amend the values to ensure the Male 25 – 34 years “eGFR only” and “Both an eGFR and an ACR” values on PI18 add up to the Male 25 – 34 years “Total clients with Type 2 Diabetes, with both eGFR and ACR” value on PI19



## Issue 5 – PI18 denominator is larger than the denominators for PI03, PI09, PI14, PI16

### PI18 (CVD)

Clients with cardiovascular disease (CVD), with test result recorded within the previous 12 months					
Male	eGFR only	ACR only	Both an eGFR and an ACR	Neither eGFR nor ACR	Total clients with CVD
18 - 24 years	0	0	0	1	1
25 - 34 years	0	0	1	1	179

### PI03

Clients aged 15 years and over, with assessment within the previous 24 months			
Male	In Person	Telehealth	Total clients
15 - 24 years	72	0	159
25 - 34 years	97	0	178



The above PI03 screenshot is an example. The same cell would also be highlighted on PI09 and PI16 if is selected.

**Internal validation**

For male regular clients aged 25 - 34 years

- the number with CVD in PI18 (Value=179) should not be more than
- ALL the numbers of total regular clients in PI03 (Value=178), PI09 (Value=178), PI14 (Value=178), PI16 (Value=178).

Please amend your data or provide a comment.

25/Oct/2023 17:29

**AIHW rule:** Against each row on every Type 2 Diabetes table, “*Total clients with Type 2 Diabetes*” should be less than or equal to the corresponding “*Total clients*” value in PI03, PI09 (15+) and PI16 (15+)

**Note:** For PI03, the sum of 0-4 and 5-14 should be compared to PI18 0-14 Rows for ‘65 – 74 years’ in PI18 correspond to Rows for ‘65 years and older in PI03, 09 and 16 (NVR-18G)

**Issue:** The Male 25 – 34 years “*Total clients with CVD*” value for PI18 is greater than the Male 25 – 34 years “*Total clients with Type 2 Diabetes*” value for PI03, PI09, PI14 and PI16

**Action required if values need amending:** Amend the values so the Male 25 – 34 years “*Total clients with CVD*” value for PI18 is less than or equal to the Male 25 – 34 years “*Total clients with Type 2 Diabetes*” value for PI03, PI09, PI14 and PI16

## Issue 6 – PI18 CVD denominators don't match PI03, PI09 and PI16 denominators minus PI20 denominators for clients aged 35 to 64

### PI18 (CVD)

45 - 54 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="21"/>
55 - 64 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="27"/>

### PI03

55 - 64 years	<input type="text" value="25"/>	<input type="text" value="40"/>
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### PI09


55 - 64 years	<input type="text" value="19"/>	<input type="text" value="10"/>	<input type="text" value="5"/>	<input type="text" value="34"/>	<input type="text" value="40"/>
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### PI16

55 - 64 years	<input type="text" value="33"/>	<input type="text" value="40"/>
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### PI20

55 - 64 years	<input type="text" value="8"/>	<input type="text" value="14"/>
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 **Internal validation**

For Male regular clients 55 - 64 years the sum of

- PI20: Total clients without CVD (Value=14)
- PI18: Total clients with CVD (Value=27)

should equal

- PI03: Total clients (Value=40)
- PI09: Total clients (Value=40)
- PI14: Total clients (Value=40)
- PI16: Total clients (Value=40)

Please amend your data or provide a comment.

25/Oct/2023 17:34

**AIHW rule:** Against each row on each CVD table, “*Total clients with CVD*” should be equal to the corresponding “*Total clients*” value in PI03, PI09 (15-64 years) PI16 (15-64 years) MINUS the corresponding “*Total clients without CVD*” value in PI20 (NVR-18I)

**Issue:** The 55 – 64 years “*Total clients*” value for PI18 CVD isn't equal to the 55 – 64 years “*Total clients*” values for PI03, PI09 and PI16, minus the “*Total clients without CVD*” value for PI20, for clients aged 35 to 64

**Action required if values need amending:** Amend the applicable values so the 55 – 64 years “*Total clients*” value for PI18 CVD is equal to the 55 – 64 years “*Total clients*” values for PI03, PI09 and PI16, minus the “*Total clients without CVD*” value for PI20, for clients aged 35 to 64

## Issue 7 – PI18 CVD denominators don't match PI03, PI09 and PI16 denominators minus PI20 denominators for clients aged 65 and over

### PI18 (CVD)

55 - 64 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="31"/>
65 years and older	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="32"/>

### PI03

65 years and older	<input type="text" value="37"/>	<input type="text" value="4"/>	<input type="text" value="51"/>
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### PI09

65 years and older	<input type="text" value="9"/>	<input type="text" value="19"/>	<input type="text" value="20"/>	<input type="text" value="48"/>	<input type="text" value="51"/>
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### PI16

65 years and older	<input type="text" value="39"/>	<input type="text" value="51"/>
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### PI20

65 - 74 years	<input type="text" value="15"/>	<input type="text" value="20"/>
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 **Internal validation**

For Male regular clients 65 years and older the sum of

- PI18: Total clients with CVD (Value=32)
- PI20: Total clients without CVD (Value=20)

should not be more than

- PI16: Total clients (Value=13)

Please amend your data or provide a comment.

25/Oct/2023 17:40

**AIHW rule:** Against each row (65 years and older) on each CVD table, “*Total clients with CVD*” should be less than or equal to the corresponding “*Total clients*” value in PI03, PI09 and PI16 minus “*Total clients without CVD*” 65-74 years in PI20 (NVR-18J)

**Issue:** The Male 65 years and over “*Total clients with CVD*” value for PI18 CVD is larger than the corresponding “*Total clients*” values for PI03, PI09 and PI16, minus the “*Total clients without CVD*” value for PI20, for clients aged 65 and over

**Action required if values need amending:** Amend the applicable values to ensure the Male 65 years and over “*Total clients with CVD*” value for PI18 CVD by age group and sex is less than or equal to the corresponding “*Total clients*” values for PI03, PI09 and PI16, minus the “*Total clients without CVD*” value for PI20, for clients aged 65 and over

## Issue 8 – Type 2 Diabetes Total Clients greater than the corresponding value in the Type 2 Diabetes AND/OR CVD table

### Type 2 Diabetes

**PI18: Kidney function test recorded**  [nKPI User guide](#)

Indigenous regular clients with a selected chronic disease who have had a selected kidney function test recorded

Clients with Type 2 Diabetes, with test result recorded within the previous 12 months

Male	eGFR only	ACR only	Both an eGFR and an ACR	Neither eGFR nor ACR	Total clients with Type 2 Diabetes
18 - 24 years	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="1"/>
25 - 34 years	<input type="text" value="3"/>	<input type="text" value="0"/>	<input type="text" value="4"/>	<input type="text" value="4"/>	<input style="border: 2px solid red;" type="text" value="13"/>

### Type 2 Diabetes AND/OR CVD

Clients with Type 2 Diabetes AND/OR cardiovascular disease (CVD), with test result recorded within the previous 12 months

Male	eGFR only	ACR only	Both an eGFR and an ACR	Neither eGFR nor ACR	Total clients with Type 2 Diabetes and/or CVD
18 - 24 years	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="2"/>
25 - 34 years	<input type="text" value="3"/>	<input type="text" value="0"/>	<input type="text" value="4"/>	<input type="text" value="5"/>	<input style="border: 2px solid red;" type="text" value="12"/>

**Internal validation**

Total male regular clients with Type 2 Diabetes, aged 25 - 34 years (Value=13) should not be more than the total male regular clients with Type 2 Diabetes and/or Cardiovascular Disease (CVD), aged 25 - 34 years (Value=12)

Please amend your data or provide a comment.

25/Oct/2023 17:54

**AIHW rule:** Against each row on each Type 2 Diabetes table, *eGFR only*, *ACR only*, *Both an eGFR and an ACR*, *Neither eGFR nor ACR* and *Total Clients with Type 2 Diabetes* should be less than or equal to the corresponding value in the *Type 2 Diabetes AND/OR CVD* table (NVR-18K)

**Issue:** The Type 2 Diabetes Male 25 - 34 years “*Total clients with Type 2 Diabetes and/or CVD*” value is greater than the corresponding value in the Type 2 Diabetes AND/OR CVD table

**Action required if values need amending:** Amend the values to ensure the Type 2 Diabetes Male 25 - 34 years “*Total clients with Type 2 Diabetes and/or CVD*” value is less than or equal to the corresponding value in the Type 2 Diabetes AND/OR CVD table


## Issue 9 - CVD Total Clients greater than the corresponding value in the Type 2 Diabetes AND/OR CVD table

### CVD

Clients with cardiovascular disease (CVD), with test result recorded within the previous 12 months					
Male	eGFR only	ACR only	Both an eGFR and an ACR	Neither eGFR nor ACR	Total clients with CVD
18 - 24 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="1"/>
25 - 34 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="32"/>

### Type 2 Diabetes AND/OR CVD

Clients with Type 2 Diabetes AND/OR cardiovascular disease (CVD), with test result recorded within the previous 12 months					
Male	eGFR only	ACR only	Both an eGFR and an ACR	Neither eGFR nor ACR	Total clients with Type 2 Diabetes and/or CVD
18 - 24 years	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="2"/>
25 - 34 years	<input type="text" value="3"/>	<input type="text" value="0"/>	<input type="text" value="4"/>	<input type="text" value="5"/>	<input type="text" value="12"/>

 **Internal validation**

Total male regular clients with Cardiovascular Disease (CVD), aged 25 - 34 years (Value=32) should not be more than the total male regular clients with Type 2 Diabetes and/or Cardiovascular Disease (CVD), aged 25 - 34 years (Value=12)

Please amend your data or provide a comment.

25/Oct/2023 17:55

**AIHW rule:** Against each row on each CVD table, *eGFR only*, *ACR only*, *Both an eGFR and an ACR*, *Neither eGFR nor ACR* and *Total Clients with CVD* should be less than or equal to the corresponding value in the *Type 2 Diabetes AND/OR CVD table* (NVR-18L)

**Issue:** The CVD Male 25 - 34 years “*Total clients with CVD*” value is greater than the corresponding value in the *Type 2 Diabetes AND/OR CVD table*

**Action required if values need amending:** Amend the values to ensure the CVD Male 25 - 34 years “*Total clients with CVD*” value is less than or equal to the corresponding value in the *Type 2 Diabetes AND/OR CVD table*

## Issue 10 – Type 2 Diabetes numerators don’t add up to corresponding denominator

**PI18: Kidney function test recorded** [nKPI User guide](#)

Indigenous regular clients with a selected chronic disease who have had a selected kidney function test recorded

Clients with Type 2 Diabetes, with test result recorded within the previous 12 months

Male	eGFR only	ACR only	Both an eGFR and an ACR	Neither eGFR nor ACR	Total clients with Type 2 Diabetes
18 - 24 years	0	1	0	0	1
25 - 34 years	3	0	4	4	12

**Internal validation**

For Clients with Type 2 Diabetes, with test result recorded within the previous 12 months Male; Row: 25 - 34 years; the sum of

- eGFR only (Value=3)
- ACR only (Value=0)
- Both an eGFR and an ACR (Value=4)
- Neither eGFR nor ACR (Value=4)

should equal

- Total clients with Type 2 Diabetes (Value=12)

Please amend your data or provide a comment.

25/Oct/2023 18:03


**AIHW rule:** Against each row on each Type 2 Diabetes table, SUM OF *eGFR only*, *ACR only*, *Both eGFR and ACR* and *Neither eGFR nor an ACR* should be equal to “*Total clients with Type 2 Diabetes*” (NVR-18M)

**Issue:** The Type 2 Diabetes Male 25 - 34 years numerator values are greater than the corresponding value in the “*Total clients with Type 2 Diabetes*” cell

**Action required if values need amending:** Amend the Type 2 Diabetes Male 25 - 34 years numerator values to ensure they are equal to the corresponding value in the “*Total clients with Type 2 Diabetes*” cell

## Issue 11 - CVD numerators don't add up to corresponding denominator

Clients with cardiovascular disease (CVD), with test result recorded within the previous 12 months					
Male	eGFR only	ACR only	Both an eGFR and an ACR	Neither eGFR nor ACR	Total clients with CVD
18 - 24 years	0	0	0	1	1
25 - 34 years	0	0	1	1	3

 **Internal validation**

For Clients with cardiovascular disease (CVD), with test result recorded within the previous 12 months Male; Row: 25 - 34 years; the sum of

- eGFR only (Value=0)
- ACR only (Value=0)
- Both an eGFR and an ACR (Value=1)
- Neither eGFR nor ACR (Value=1)

should equal

- Total clients with CVD (Value=3)

Please amend your data or provide a comment.

25/Oct/2023 18:05

**AIHW rule:** Against each row on each CVD table, SUM OF *eGFR only*, *ACR only*, *Both eGFR and ACR* and *Neither eGFR nor an ACR* should be equal to “*Total clients with CVD*” (NVR-18N)

**Issue:** The CVD Male 25 - 34 years numerator values are greater than the corresponding value in the “*Total clients with CVD*” cell

**Action required if values need amending:** Amend the CVD Male 25 - 34 years numerator values to ensure they are equal to the corresponding value in the “*Total clients with CVD*” cell

## Issue 12 – Type 2 Diabetes and/or CVD numerators don't add up to corresponding denominator

Clients with Type 2 Diabetes AND/OR cardiovascular disease (CVD), with test result recorded within the previous 12 months					
Male	eGFR only	ACR only	Both an eGFR and an ACR	Neither eGFR nor ACR	Total clients with Type 2 Diabetes and/or CVD
18 - 24 years	0	1	0	1	2
25 - 34 years	3	0	4	5	13

**Internal validation**

For Clients with Type 2 Diabetes AND/OR cardiovascular disease (CVD), with test result recorded within the previous 12 months  
 Male; Row: 25 - 34 years; the sum of

- eGFR only (Value=3)
- ACR only (Value=0)
- Both an eGFR and an ACR (Value=4)
- Neither eGFR nor ACR (Value=5)

should equal

- Total clients with Type 2 Diabetes and/or CVD (Value=13)

25/Oct/2023 18:07

**AIHW rule:** Against each row on each Type 2 Diabetes AND/OR CVD table, SUM OF *eGFR only*, *ACR only*, *Both eGFR and ACR* and *Neither eGFR nor an ACR* should be equal to “*Total clients with Type 2 Diabetes and/or CVD*” (NVR-180)

**Issue:** The Male 25 – 34 years numerator values are greater than the corresponding value in the “*Total clients with Type 2 Diabetes and/or CVD*” cell

**Action required if values need amending:** Amend the Male 25 – 34 years and older numerator values to ensure they are equal to the corresponding value in the “*Total clients with Type 2 Diabetes and/or CVD*” cell



# PI19: Kidney function result categories

## Issue 1 – Numerators don’t add up to the denominator

**PI19: Kidney function result categories** [nKPI User guide](#)

Indigenous regular clients with a selected chronic disease who have a kidney function result within specified categories

Clients with Type 2 Diabetes who had both an eGFR and an ACR result recorded within the previous 12 months categorised as:

Male	Normal Risk	Low Risk	Moderate Risk	High Risk	Type 2 Diabetes, with both eGFR and ACR
18 - 24 years	0	1	0	0	0

**Internal validation**

For Clients with Type 2 Diabetes who had both an eGFR and an ACR result recorded within the previous 12 months categorised as:

Male; Row: 18 - 24 years; the sum of

- Normal Risk (Value=0)
- Low Risk (Value=1)
- Moderate Risk (Value=0)
- High Risk (Value=0)

should equal

- Type 2 Diabetes, with both eGFR and ACR (Value=0)

Please amend your data or provide a comment.

25/Oct/2023 18:08

**AIHW rule:** Against each row on every table, the sum of the numerator components should be equal to Total clients with Type 2 Diabetes who had both eGFR and ACR or Total clients with CVD who had both eGFR and ACR OR Total clients with Type 2 Diabetes AND/OR CVD who had both eGFR and ACR (NVR-19A,D,G)

**Issue:** The Male 18 – 24 years values don’t add up to the corresponding “Type 2 Diabetes with both eGFR and ACR” value

**Action required if values need amending:** Amend the values so the Male 18 – 24 years numerators add up to the corresponding “Type 2 Diabetes with both eGFR and ACR” value

## Issue 2 – Numerators on PI18 (Type 2 Diabetes) don't add up to the denominator on PI19

### PI18 (Type 2 Diabetes)

**PI18: Kidney function test recorded** [nKPI User guide](#)

Indigenous regular clients with a selected chronic disease who have had a selected kidney function test recorded

Clients with Type 2 Diabetes, with test result recorded within the previous 12 months

Male	eGFR only	ACR only	Both an eGFR and an ACR	Neither eGFR nor ACR	Total clients with Type 2 Diabetes
18 - 24 years	0	1	0	0	1
25 - 34 years	3	0	5	4	11

### PI19

**PI19: Kidney function result categories** [nKPI User guide](#)

Indigenous regular clients with a selected chronic disease who have a kidney function result within specified categories

Clients with Type 2 Diabetes who had both an eGFR and an ACR result recorded within the previous 12 months categorised as:

Male	Normal Risk	Low Risk	Moderate Risk	High Risk	Type 2 Diabetes, with both eGFR and ACR
18 - 24 years	0	0	0	0	0
25 - 34 years	1	2	1	0	4

**Internal validation**

For male regular clients aged 25 - 34 years with Type 2 Diabetes

- the number who had both eGFR and ACR recorded in PI19 (Value=4) should be the same as
- the number who had both eGFR and ACR recorded in PI18 (Value=5).

Please amend your data or provide a comment.

25/Oct/2023 18:10

**AIHW rule:** The sum of the numerator components for PI18 type 2 diabetes (eGFR only and both eGFR and ACR) by age group and sex should be the same as the denominators for PI19 type 2 diabetes by age group and sex (NVR-19B,E,H)

**Issue:** The Male 25 – 34 years “eGFR only” and “Both an eGFR and an ACR” values in PI18 don't add up to be the same as the “Total clients with Type 2 Diabetes, with an eGFR test” value on PI19

**Action required if values need amending:** Amend the values to ensure the Male 25 – 34 years “eGFR only” and “Both an eGFR and an ACR” values in PI18 add up to be the same as the “Total clients with Type 2 Diabetes, with an eGFR test” value on PI19

### Issue 3 - Denominators for different result levels don't match – XML ONLY

**AIHW rule:** The denominators for each result level ( $\geq 90$ ;  $\geq 60$  to  $< 90$ ;  $\geq 45$  to  $< 60$ ;  $\geq 30$  to  $< 45$ ;  $\geq 15$  to  $< 30$ ; and  $< 15$ ) should be the same within each age group and sex

**Issue:** The denominators for each result level ( $\geq 90$ ;  $\geq 60$  to  $< 90$ ;  $\geq 45$  to  $< 60$ ;  $\geq 30$  to  $< 45$ ;  $\geq 15$  to  $< 30$ ; and  $< 15$ ) aren't the same within each age group and sex (NVR-19C,F and I)

**Action required if values need amending:** Amend the applicable values to ensure the denominators for each result level ( $\geq 90$ ;  $\geq 60$  to  $< 90$ ;  $\geq 45$  to  $< 60$ ;  $\geq 30$  to  $< 45$ ;  $\geq 15$  to  $< 30$ ; and  $< 15$ ) are the same within each age group and sex. Note that you can only see one value for each denominator on the screen. If the value shown on the screen is correct, delete it, enter it in again and then press **Save**. This should then clear the data validation flag



This issue will only arise as part of direct load, as the data transferred from your CIS has 6 separate denominators, one for each numerator, and sometimes these are different

## Issue 4 – Type 2 Diabetes totals for a particular sex and age group are greater than the corresponding value in the Type 2 Diabetes AND/OR CVD table

### Type 2 Diabetes

**PI19: Kidney function result categories** [nKPI User guide](#)

Indigenous regular clients with a selected chronic disease who have a kidney function result within specified categories

Clients with Type 2 Diabetes who had both an eGFR and an ACR result recorded within the previous 12 months categorised as:

Male	Normal Risk	Low Risk	Moderate Risk	High Risk	Type 2 Diabetes, with both eGFR and ACR
18 - 24 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
25 - 34 years	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="1"/>	<input style="border: 2px solid red;" type="text" value="1"/>	<input type="text" value="4"/>

### Type 2 Diabetes AND/OR CVD

Clients with Type 2 Diabetes AND/OR Cardiovascular Disease (CVD) who had both an eGFR and an ACR result recorded within the previous 12 months categorised as:

Male	Normal Risk	Low Risk	Moderate Risk	High Risk	Type 2 Diabetes and/or CVD, with both eGFR and ACR
18 - 24 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
25 - 34 years	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="1"/>	<input style="border: 2px solid red;" type="text" value="0"/>	<input type="text" value="4"/>

**Internal validation**

The number of male regular clients with Type 2 Diabetes, aged 25 - 34 years with a kidney function result categorised as 'High Risk' (Value=1) should not be more than the equivalent number of male regular clients with Type 2 Diabetes and/or Cardiovascular Disease (CVD) (Value=0)

Please amend your data or provide a comment.

25/Oct/2023 18:12

**AIHW rule:** Against each row in each Type 2 Diabetes table, *Normal*, *Low*, *Moderate*, and *High Risk* and *Total clients with Type 2 Diabetes who had an eGFR and ACR* should be less than or equal to the corresponding value in the Type 2 Diabetes AND/OR CVD table (NVR-19L)

**Issue:** The Type 2 Diabetes Male 25 - 34 years “*High Risk*” value is greater than the corresponding value in the Type 2 Diabetes AND/OR CVD table

**Action required if values need amending:** Amend the values to ensure the Type 2 Diabetes Male 25 - 34 years “*High Risk*” value is less than or equal to the corresponding value in the Type 2 Diabetes AND/OR CVD table

## Issue 5 - CVD totals for a particular sex and age group are greater than the corresponding value in the Type 2 Diabetes AND/OR CVD table

### CVD


Clients with Cardiovascular Disease (CVD) who had both an eGFR and an ACR result recorded within the previous 12 months categorised as:

Male	Normal Risk	Low Risk	Moderate Risk	High Risk	CVD, with both eGFR and ACR
18 - 24 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
25 - 34 years	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="1"/>

### Type 2 Diabetes AND/OR CVD

Clients with Type 2 Diabetes AND/OR Cardiovascular Disease (CVD) who had both an eGFR and an ACR result recorded within the previous 12 months categorised as:

Male	Normal Risk	Low Risk	Moderate Risk	High Risk	Type 2 Diabetes and/or CVD, with both eGFR and ACR
18 - 24 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
25 - 34 years	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="4"/>

 **Internal validation**

The number of male regular clients with Cardiovascular Disease (CVD), aged 25 - 34 years with a kidney function result categorised as 'High Risk' (Value=1) should not be more than the equivalent number of male regular clients with Type 2 Diabetes and/or Cardiovascular Disease (CVD) (Value=0)

Please amend your data or provide a comment.

26/Oct/2023 07:18

**AIHW rule:** Against each row in each CVD table, *Normal, Low, Moderate, and High Risk* and *Total clients with CVD who had an eGFR and ACR* should be less than or equal to the corresponding value in the Type 2 Diabetes AND/OR CVD table (NVR-19M)


**Issue:** The CVD Male 25 - 34 years “*High Risk*” value is greater than the corresponding value in the Type 2 Diabetes AND/OR CVD table

**Action required if values need amending:** Amend the values to ensure the CVD Male 25 - 34 years “*High Risk*” value is less than or equal to the corresponding value in the Type 2 Diabetes AND/OR CVD table

## PI20: CVD risk assessment factors

### Issue 1 – Numerators are larger than the denominator

PI20: CVD risk assessment factors		
Indigenous regular clients who have had the necessary risk factors assessed to enable cardiovascular disease (CVD) risk assessment		
Clients without diagnosed CVD, who have a smoking status recorded, and a systolic blood pressure, total cholesterol, and high density lipoprotein (HDL) cholesterol measurements recorded within the previous 24 months		
Male	With required measurements recorded	Total clients without CVD
35 - 44 years	57	56

 **Internal validation**

For Clients without diagnosed CVD, who have a smoking status recorded, and a systolic blood pressure, total cholesterol, and high density lipoprotein (HDL) cholesterol measurements recorded within the previous 24 months Male; Row: 35 - 44 years;

- With required measurements recorded (Value=57)

should not be more than

- Total clients without CVD (Value=56)

Please amend your data or provide a comment.

26/Oct/2023 07:22

**AIHW rule:** The numerator by age group and sex should be less than or equal to the denominators by age group and sex (NVR-20A)

**Issue:** The Male 35 – 44 years “*With required measurements recorded*” value is greater than the corresponding “*Total clients without CVD*” value

**Action required if values need amending:** Amend the values to ensure the Male 35 – 44 years “*With required measurements recorded*” value is less than or equal to the corresponding “*Total clients without CVD*” value

## Issue 2 – Denominator for PI20 is less than the denominator for PI21

### PI20: CVD risk assessment factors

PI20: CVD risk assessment factors		
Indigenous regular clients who have had the necessary risk factors assessed to enable cardiovascular disease (CVD) risk assessment		
Clients without diagnosed CVD, who have a smoking status recorded, and a systolic blood pressure, total cholesterol, and high density lipoprotein (HDL) cholesterol measurements recorded within the previous 24 months		
Male	With required measurements recorded	Total clients without CVD
35 - 44 years	22	56

### PI21: CVD risk assessment result

Male	High (greater than 15%)	Moderate (10-15%)	Low (less than 10%)	Total clients without CVD with risk assessment
35 - 44 years	0	0	0	57

Internal validation	
	<p>For male regular clients aged 35 - 44 years</p> <ul style="list-style-type: none"> <li>the number without CVD who had a Risk Assessment in PI21 (Value=57) should not be more than</li> <li>the number of similar regular clients without CVD in PI20 (Value=56).</li> </ul> <p>Please amend your data or provide a comment.</p>
26/Oct/2023 07:25	

**AIHW rule:** The denominators for PI20 by age group and sex should be greater than or equal to the denominators for PI21 by age group and sex (NVR-20B)

**Issue:** The Male 35 – 44 years “*Total clients without CVD*” value on PI20 is less than the corresponding “*Total clients without CVD with risk assessment*” value

**Action required if values need amending:** Amend the values to ensure the Male 35 – 44 years “*Total clients without CVD*” value on PI20 is greater than or equal to the corresponding “*Total clients without CVD with risk assessment*” value

# PI21: CVD risk assessment result

## Issue 1 - Numerator components don't add up to the denominator

**PI21: CVD risk assessment result**

Indigenous regular clients who have had absolute cardiovascular disease (CVD) risk assessment results within specified levels

Clients without diagnosed CVD, with absolute CVD risk assessment result (chance of a cardiovascular event in the next 5 years) recorded within the previous 24 months

Male	High (greater than 15%)	Moderate (10-15%)	Low (less than 10%)	Total clients without CVD with risk assessment
35 - 44 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="1"/>

**Internal validation**

For Clients without diagnosed CVD, with absolute CVD risk assessment result (chance of a cardiovascular event in the next 5 years) recorded within the previous 24 months Male; Row: 35 - 44 years; the sum of

- High (greater than 15%) (Value=0)
- Moderate (10-15%) (Value=0)
- Low (less than 10%) (Value=0)

should equal

- Total clients without CVD with risk assessment (Value=1)

Please amend your data or provide a comment.

26/Oct/2023 07:27

**AIHW rule:** The sum of numerator components by age group and sex should be equal to the denominators by age group and sex (NVR-21A)

**Issue:** The Male 35 – 44 years “High”, “Medium” and “Low” result values don’t add up to the “Total clients without CVD with risk assessment” value

**Action required if values need amending:** Amend the values to ensure the Male 35 – 44 years “High”, “Medium” and “Low” result values add up to the “Total clients without CVD with risk assessment” value

## Issue 2 – Denominators don't match within age groups – XML ONLY

**AIHW rule:** The denominators for each risk category (*high*, *moderate*, and *low*) should be the same within each age group and sex (NVR-21B)

**Issue:** The denominators for each risk category (*high*, *moderate*, and *low*) are different within each age group and sex

**Action required if values need amending:** Amend the applicable values to ensure the denominators for each risk category (*high*, *moderate*, and *low*) are the same within each age group and sex. Note that you can only see one value for each denominator on the screen. If the value shown on the screen is correct, delete it, enter it in again and then press **Save**. This should then clear the data validation flag




This issue will only arise as part of direct load, as the data transferred from your CIS has 3 separate denominators (high, moderate, and low) and sometimes these are different



## PI22: Proportion of regular clients who have had cervical screening (HPV Test)

### Issue 1 – Numerators by age group are larger than the denominator

PI22: Cervical screening <span style="float: right;"><a href="#">nKPI User guide</a></span>		
Regular clients who have had cervical screening (HPV test)		
Clients with a cervical screening within the previous 5 years and on or after 01 December 2017		
Age	Clients with a cervical screening	Total female clients without a hysterectomy
25 - 34 years	13	12

	<p><b>Internal validation</b></p> <p>For Clients with a cervical screening within the previous 5 years and on or after 01 December 2017 Age; Row: 25 - 34 years;</p> <ul style="list-style-type: none"> <li>PI22: Clients with a cervical screening (Value=13) should not be more than</li> <li>PI22: Total female clients without a hysterectomy (Value=12)</li> </ul> <p>Please amend your data or provide a comment.</p> <p>26/Oct/2023 07:29</p>
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**AIHW rule:** Against each row on PI22 “*Clients with a cervical screening*” cannot be more than “*Total female clients without a hysterectomy*” (NVR-22A)

**Issue:** The 25 – 34 years “*Clients with a cervical screening*” value is greater than the corresponding “*Total female clients without a hysterectomy*” value

**Action required if values need amending:** Amend the values to ensure the 25 – 34 years “*Clients with a cervical screening*” value is less than or equal to the corresponding “*Total female clients without a hysterectomy*” value

## PI23: Blood pressure recorded

PI23: Blood pressure recorded and PI24: Blood pressure less than or equal to 140/90mmHg [nKPI User guide](#)

Indigenous regular clients with Type 2 Diabetes whose blood pressure measurement result was less than or equal to 140/90mmHg

Clients with Type 2 Diabetes with BP tested within the previous 6 months

Male	BP <= 140/90 mmHg	Total clients tested with Type 2 Diabetes	Total clients with Type 2 Diabetes
0 - 4 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
5 - 14 years	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
15 - 24 years	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="1"/>
25 - 34 years	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="1"/>
35 - 44 years	<input type="text" value="4"/>	<input type="text" value="12"/>	<input type="text" value="19"/>
45 - 54 years	<input type="text" value="5"/>	<input type="text" value="14"/>	<input type="text" value="18"/>
55 - 64 years	<input type="text" value="9"/>	<input type="text" value="16"/>	<input type="text" value="19"/>

The cells highlighted above make up **PI23: Blood pressure recorded**. All data validation issues for PI23 involve at least one of these cells.

### Issue 1 – Numerators are larger than the denominator

PI23: Blood pressure recorded and PI24: Blood pressure less than or equal to 140/90mmHg [nKPI User guide](#)

Indigenous regular clients with Type 2 Diabetes whose blood pressure measurement result was less than or equal to 140/90mmHg

Clients with Type 2 Diabetes with BP tested within the previous 6 months

Male	BP <= 140/90 mmHg	Total clients tested with Type 2 Diabetes	Total clients with Type 2 Diabetes
0 - 4 years	<input type="text" value="0"/>	<input type="text" value="1"/>	<input type="text" value="0"/>

**Internal validation**

For Clients with Type 2 Diabetes with BP tested within the previous 6 months Male; Row: 0 - 4 years;

- Total clients tested with Type 2 Diabetes (Value=1) should not be more than
- Total clients with Type 2 Diabetes (Value=0)

Please amend your data or provide a comment.

26/Oct/2023 07:30

**AIHW rule:** The numerators by age group and sex should be less than or equal to the denominators by age group and sex (NVR-23A)

**Issue:** The Male 0 – 4 years “Total clients tested with Type 2 Diabetes” value is greater than the corresponding “Total clients with Type 2 Diabetes” value

**Action required if values need amending:** Amend the values to ensure the Male 0 – 4 years “Total clients tested with Type 2 Diabetes” value is less or equal to the corresponding “Total clients with Type 2 Diabetes” value

## Issue 2 – Numerators on PI23 don't match the denominator on PI24 – XML ONLY

**AIHW rule:** The numerators for PI23 by age group and sex should be the same as the denominators for PI24 by age group and sex (NVR-23C)

**Issue:** The numerators for PI23 by age group and sex aren't the same as the denominators for PI24 by age group and sex. Note that you can only see one value for each numerator and denominator on the screen. If the value shown on the screen is correct, delete the value, enter it again and then press **Save**. This should then clear the data validation flag

**Action required if values need amending:** Amend the value to ensure the numerators for PI23 by age group and sex are the same as the denominators for PI24 by age group and sex



This issue will only arise as part of direct load, as the data transferred from your CIS has one numerator for PI23 and one denominator for PI24 and sometimes these are different

## PI24: Blood pressure less than or equal to 140/90mmHg

PI23: Blood pressure recorded and PI24: Blood pressure less than or equal to 140/90mmHg

[nKPI User guide](#)

Indigenous regular clients with Type 2 Diabetes whose blood pressure measurement result was less than or equal to 140/90mmHg

Clients with Type 2 Diabetes with BP tested within the previous 6 months

Male	BP <= 140/90 mmHg	Total clients tested with Type 2 Diabetes	Total clients with Type 2 Diabetes
0 - 4 years	0	0	0
5 - 14 years	0	0	0
15 - 24 years	0	1	1
25 - 34 years	0	1	1
35 - 44 years	4	12	19
45 - 54 years	5	14	18
55 - 64 years	9	16	19
65 years and older	0	3	6

The cells highlighted above make up **PI24: Blood pressure less than or equal to 140/90mm/Hg**. All data validation issues for PI24 involve at least one of these cells.

The cells in the **BP <= 140/90mm/Hg** column make up the numerator for PI24 while the cells in **Total clients tested with Type 2 Diabetes** column make up the denominator for PI24.


## Issue 1 – Numerators larger than denominator

PI23: Blood pressure recorded and PI24: Blood pressure less than or equal to 140/90mmHg [nKPI User guide](#)

Indigenous regular clients with Type 2 Diabetes whose blood pressure measurement result was less than or equal to 140/90mmHg

Clients with Type 2 Diabetes with BP tested within the previous 6 months

Male	BP <= 140/90 mmHg	Total clients tested with Type 2 Diabetes	Total clients with Type 2 Diabetes
0 - 4 years	1	0	0

	<p><b>Internal validation</b></p> <p>For Clients with Type 2 Diabetes with BP tested within the previous 6 months Male; Row: 0 - 4 years;</p> <ul style="list-style-type: none"> <li>BP &lt;= 140/90 mmHg (Value=1) should not be more than</li> <li>Total clients tested with Type 2 Diabetes (Value=0)</li> </ul> <p>Please amend your data or provide a comment.</p> <p>26/Oct/2023 07:32</p>
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**AIHW rule:** The numerators by age group and sex should be less than or equal to the denominators by age group and sex (NVR-24A)

**Issue:** The Male 0 – 4 years “BP <= 140/90mmHg” value is larger than the corresponding “Total clients tested with Type 2 Diabetes” value

**Action required if values need amending:** Amend the values to ensure the Male 0 – 4 years “BP <= 140/90mmHg” value is less than or equal to the corresponding “Total clients tested with Type 2 Diabetes” value


## Issue 2 – Numerator is greater than 0 for 0 – 4 year olds

PI23: Blood pressure recorded and PI24: Blood pressure less than or equal to 140/90mmHg [nKPI User guide](#)

Indigenous regular clients with Type 2 Diabetes whose blood pressure measurement result was less than or equal to 140/90mmHg

Clients with Type 2 Diabetes with BP tested within the previous 6 months

Male	BP <= 140/90 mmHg	Total clients tested with Type 2 Diabetes	Total clients with Type 2 Diabetes
0 - 4 years	1	0	0

	<p><b>Internal validation</b></p> <p>For Clients with Type 2 Diabetes with BP tested within the previous 6 months Male;</p> <p>Row: 0 - 4 years; Column: BP &lt;= 140/90 mmHg (Value=1)</p> <p>is unlikely to be greater than zero, due to the rarity of this condition in infants.</p> <p>Please confirm your data is correct or, if necessary, amend your data.</p> <p>26/Oct/2023 07:32</p>
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**AIHW rule:** The numerator for PI24 for Indigenous regular clients aged 0 – 4 should equal 0

**Issue:** The numerator for PI24 for male Indigenous regular clients aged 0 – 4 years doesn’t equal 0

**Action required if values need amending:** Amend the applicable values to ensure the numerator for PI24 for male Indigenous regular clients aged 0 – 4 equals 0

## PI25: STI Tests

### Issue 1 – Numerator larger than denominator

PI25: STI Tests		
<a href="#">nKPI User guide</a>		
Indigenous regular clients who tested for one or more sexually transmissible infections		
Clients aged 15-34 who were tested for one or more sexually transmissible infections within the previous 12 months		
Male	Total Clients tested	Total clients
15 - 19 years	60	59

**Internal validation**

For Clients aged 15-34 who were tested for one or more sexually transmissible infections within the previous 12 months Male; Row: 15 - 19 years;

- Total Clients tested (Value=60) should not be more than
- Total clients (Value=59)

Please amend your data or provide a comment.

26/Oct/2023 07:40

**AIHW rule:** The numerators by age group should be less than or equal to the denominators by age group and sex (NVR-25A)

**Issue:** The Male 15 – 19 years “*Total Clients tested*” value is larger than the corresponding “*Total clients*” value

**Action required if values need amending:** Amend the values to ensure the Male 15 – 19 years “*Total clients tested*” value is less than or equal to the corresponding “*Total clients*” value

## Issue 2 – Total client age group value doesn't match the corresponding value on PI03, 09, 12, 14 and 16

### PI25

PI25: STI Tests		
<a href="#">nKPI User guide</a>		
Indigenous regular clients who tested for one or more sexually transmissible infections		
Clients aged 15-34 who were tested for one or more sexually transmissible infections within the previous 12 months		
Male	Total Clients tested	Total clients
15 - 19 years	45	59
20 - 24 years	78	100
25 - 29 years	0	120
30 - 34 years	0	58

### PI03

25 - 34 years	97	0	179
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### PI09

25 - 34 years	87	13	30	130	179
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### PI12


25 - 34 years	2	45	38	59	34	179
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### PI14

25 - 34 years	8	179
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### PI16

25 - 34 years	88	179
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	<p><b>Internal validation</b></p> <p>The number of male regular clients aged 25 - 34 years on PI12 (Value=179) should equal the sum of Total clients in PI25:</p> <ul style="list-style-type: none"> <li>Row: 25 - 29 years; (Value=120)</li> <li>Row: 30 - 34 years; (Value=58)</li> </ul> <p>Please amend your data or provide a comment.</p> <p>26/Oct/2023 08:45</p>
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**AIHW rule:** The denominators by age group should be the same across PI03, 09, 12, 14, 16 and 25

**Issue:** The Male 15 – 19 and 20 - 24 years “*Total Clients*” values on PI25 add up to be more than the corresponding “*Total clients*” values in PI03, 09, 12, 14 and 16

**Action required if values need amending:** Amend the values to ensure the Male 15 – 19 and 20 - 24 years “*Total Clients*” values on PI25 add up to be the same as the corresponding “*Total clients*” values in PI03, 09, 12, 14 and 16

# TNATSIRC: Indigenous regular clients

## Issue 1 – Clients with age and sex recorded are less than total clients on PI03

### TNATSIRC

TNATSIRC: Indigenous regular clients					
<a href="#">nKPI User guide</a>					
		Indigenous clients without a sex or age recorded	Indigenous clients with a sex recorded but not an age	Indigenous clients with an age recorded but not a sex	Indigenous clients with both a sex and age recorded
Number of Indigenous regular clients	(Previous)	0	2	0	1526
	(Current)	0	2	0	1053

### PI03

Clients aged 0-14 years, with assessment within the previous 12 months			
Male	In Person	Telehealth	Total clients
0 - 4 years	0	0	100
5 - 14 years	0	0	0
<b>Total males</b>	0	0	100
	0%	0%	

Clients aged 0-14 years, with assessment within the previous 12 months			
Female	In Person	Telehealth	Total clients
0 - 4 years	0	0	0
5 - 14 years	0	0	1

**Internal validation**

The sum of

- Total clients for both Male and Female across ALL Age ranges in PI03 (Values=100 + 0 + 0 + 1 + 160 + 179 + 113 + 204 + 40 + 51 + 299 + 325 + 225 + 219 + 229 + 180)

should not be more than

- Indigenous clients with both a sex and age recorded in TNATSIRC (Value=1053)

Please amend your data or provide a comment.

26/Oct/2023 07:52

**AIHW rule:** Indigenous regular clients with age and sex recorded on TNATSIRC must be greater than or equal to “*Total clients*” for both male and female across all ranges on PI03 (NVR-ASY)


**Issue:** The Indigenous regular clients with age and sex recorded on TNATSIRC are less than the “*Total clients*” for both male and female across all ranges on PI03

**Action required if values need amending:** Amend the applicable values to ensure the Indigenous regular clients with age and sex recorded on TNATSIRC are greater than or equal to the “*Total clients*” for both male and female across all ranges on PI03



## Issue 2 – Indigenous regular clients with an unknown age and/or sex is more than 20

TNATSIRC: Indigenous regular clients				
	Indigenous clients without a sex or age recorded	Indigenous clients with a sex recorded but not an age	Indigenous clients with an age recorded but not a sex	Indigenous clients with both a sex and age recorded
Number of Indigenous regular clients	0	0	50	2578
<b>Total</b>	0	0	50	2578
	0%	0%	2%	98%

Internal validation	
	<p>For Row: Number of Indigenous regular clients; The sum of</p> <ul style="list-style-type: none"> <li>Indigenous clients with a sex recorded but not an age (Value=0)</li> <li>Indigenous clients without a sex or age recorded (Value=0)</li> <li>Indigenous clients with an age recorded but not a sex (Value=50)</li> </ul> <p>should be less than 20.</p> <p>Please confirm your data is correct or, if necessary, amend your data.</p> <p>26/Oct/2023 08:51</p>

**AIHW rule:** Sum (unknown age, unknown sex, unknown age, and sex) should be less than 20 (NVR-ASZ)

**Issue:** The “*Indigenous regular clients with an age recorded but not a sex*” value is larger than 20.

**Action required if values need amending:** Amend the applicable values to ensure the “*Indigenous regular clients with an age recorded but not a sex*” value is less than 20.

# nKPI Targets

## Issue 1 – Future target is lower than previous target

**NKPI Targets** [nKPI User guide](#)

This section captures Health Service defined targets against each of the indicators for which there is also a current national trajectory.

PI03: Proportion of Indigenous regular clients (0-4 years) with a current completed health assessment (Items 715, 228, 92004, 92016, 92011, 92023)

	Value in current collection (%)	Target Dec 2023 (%)	Target Jun 2024 (%)	Target Dec 2024 (%)	Target Jun 2025 (%)
Proportion	98	30	40	50	45

Current target (%) 5

**Internal validation**

PI03: Proportion of Indigenous regular clients (0-4 years) with a current completed health assessment (Items 715, 228, 92004, 92016, 92011, 92023) for Jun 2025 (Value=45) should be greater than or equal to the value in Dec 2024 (Value=50)

Please amend your data or provide a comment.

26/Oct/2023 08:56

**Rule:** Your target for “Proportion of Indigenous regular clients ...” for a collection period should be greater than or equal to the target value for the previous collection period

**Issue:** The “Target Jun 2025” value is less than the “Target Dec 2024” value

**Action required if values need amending:** Amend the “Target Jun 2025” value to be greater than or equal to the “Target Dec 2024” value

## Issue 2 – Target value is less than current value

**NKPI Targets** [nKPI User guide](#)

This section captures Health Service defined targets against each of the indicators for which there is also a current national trajectory.

PI03: Proportion of Indigenous regular clients (0-4 years) with a current completed health assessment (Items 715, 228, 92004, 92016, 92011, 92023)

	Value in current collection (%)	Target Dec 2023 (%)	Target Jun 2024 (%)	Target Dec 2024 (%)	Target Jun 2025 (%)
Proportion	98	30	40	50	55

Current target (%) 5

**Internal validation**

PI03: Proportion of Indigenous regular clients (0-4 years) with a current completed health assessment (Items 715, 228, 92004, 92016, 92011, 92023) for Dec 2023 (Value=30) is less than the value in the current collection (Value=98)

Given the value in the current collection, does the target value need to be amended?

Please amend your data or provide a comment.

25/Oct/2023 11:45

**Rule:** Your target for “Proportion of Indigenous regular clients ...” for a collection period should be greater than the corresponding value for the current collection period

**Issue:** The “Target Dec 2023” value is less than the “Value in current collection” value

**Action required if values need amending:** Amend the “Target Dec 2023” value to be greater than or equal to the “Value in current collection” value

## Time Trend Validation

The below is the list of nKPI time trend validation rules that will be run in the Data Portal. The data validation flags these rules may generate could appear on any of the indicators included in the nKPI form.

- For numerator values and denominator values <50 in the previous reporting period and the numerator values and denominator values >50 for the latest reporting period, any change of 100% or greater will generate a data validation issue
- For numerator values and denominator values less than or equal to 50 and < 100, any change of greater than 75% (relative to the previous period) will be flagged
- For numerator values and denominator values less than or equal to 100 and < 500, any change of greater than 50% (relative to the previous period) will generate a data validation issue
- For numerator values and denominators values less than or equal to 500, any change of greater than 25% (relative to the previous period) will generate a data validation issue
- Smaller services/numbers (including indicator components) are reviewed manually



When presented with time trend data validation issues, health services can choose to either amend the value in question to remove the issue or respond to the issue explaining why the values in question are correct.