

WORK WITH NKPI DATA VALIDATION RULES IN THE HEALTH DATA PORTAL

25 OCTOBER 2023

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ii Version 3.0

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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 nest 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.

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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.

Version Number	Date	Change
1.0	25 October 2023	Original version

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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 <u>Completing nKPIs you Don't Report on/ have data for</u> QRG through the <u>User Support</u> section on any screen in the Data Portal.

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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	
<u>01</u>	02	The numerator value "With birth weight recorded (all live births)" needs to be greater than or equal to the Pl02 total value "Total babies born"	
<u>02</u>	01	The value "Total babies born" needs to be less than or equal to the PI01 numerator value "With birth weight recorded (all live births)"	
<u>03</u>	05, 07, 18, 23	The "Total clients" value for a particular age group and sex needs to be greater than or equal to the corresponding "Total clients with Type 2 diabetes" values on PI05, PI07, PI18 and PI23	
	09, 14, 16	The "Total clients" value for a particular age group and sex needs to be the same as the corresponding "Total clients" values on PI09, PI14 and PI16	
	12	The "Total clients" values should be greater than or equal to the "Total clients" values on PI12 by age group and sex	
	13	The "Total clients" values for the sum of females aged 35-44 and 45-54 for Pl03 should be greater than or equal to the "Total clients who gave birth" values for those aged 35 and over for Pl13	
	14	The "Total clients" value for clients aged 45 and over should be greater than or equal to the "Total clients" number on PI14 for clients aged 45 and over	
	18, 20	For clients aged 35 to 64: The "Total clients" values should be equal to the "Total clients with CVD" values for PI18 (CVD) plus the "Total clients without CVD" values for PI20	
		For clients aged 65 and over: The "Total clients" values should be greater than or equal to the "Total clients with CVD" values for Pl18 plus the "Total clients without CVD" values for Pl20	
	25	The number of regular clients in an age group on Pl03 should equal the sum of the clients in the corresponding age groupings on Pl25	

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Indicator	Linked To	Link Type	
	22	The female "Total clients" for a particular age group should be greater than or equal to the "Total female clients without a hysterectomy" on Pl22	
<u>05</u>	The totals by age group and sex for Type diabetes for ages 15-24, 25-34, 35-44 sho less than or equal to the totals by age group sex on Pl03, Pl09, Pl14 and Pl16 (for the corresponding age groups)		
	06	The "With HbA1c Test" value should always equal the sum of the HbA1c values on Pl06	
		The "Total clients with Type 2 Diabetes" value should always be greater than or equal to the sum of the HbA1c values on Pl06	
	07,18,23	The "Total clients with Type 2 Diabetes" value should always equal the corresponding value on PI07, PI18 and PI23	
<u>06</u>	05	The sum of the HbA1c result values should equal the "With HbA1c Test" value on Pl05	
		The sum of the HbA1c values should always be less than or equal to the "Total clients with Type 2 Diabetes" value on PI05	
<u>07</u>	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 Pl03, Pl09, Pl14 and Pl16 (for the corresponding age groups)	
	05,18,23	The "Total clients with Type 2 Diabetes" should always equal the corresponding value on Pl05, Pl18 and Pl23	
<u>09</u>	03, 14, 16	The "Total clients" value for a particular age group and sex needs to be the same as the corresponding "Total clients" 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 Pl05, Pl07, Pl18 (Type 2 diabetes) and Pl23 (for the corresponding age groups)	
	10	The "Total clients with smoking status recorded" value should equal the sum of the "Smoking status result" values on PI10	
		The "Total clients" value should be greater than or equal to the sum of the "Smoking status result" 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	

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Indicator	Linked To	Link Type
	13	The "Total clients" 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 "Total clients" value for clients aged 45 and over should be greater than or equal to the total on PI14 for clients aged 45
	18, 20	For clients aged 35 to 64: The "Total clients" values should be equal to the "Total clients with CVD" values for PI18 (CVD) plus the "Total clients without CVD" values for PI20
		For clients aged 65 and over: The "Total clients" values should be greater than or equal to the "Total clients with CVD" values for Pl18 plus the "Total clients without CVD" values for Pl20
	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.
<u>10</u>	09	The sum of the "Smoking status result" values should equal the "Total clients with smoking status recorded" value on PI09
		The sum of the "Smoking status result" values should be less than or equal to the "Total clients" value on Pl09
	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+
<u>11</u>	The totals by age group (sum of 15-19 a 25-34 and 35+) should be less than or e the totals of PI10 for females aged 15-2 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+

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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+		
<u>12</u>	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 Pl03 25 + and the totals by age and sex for the corresponding age groups on Pl09, Pl14 and Pl16		
<u>13</u>	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 Pl09, Pl14 and Pl16		
<u>14</u>	03, 09, 16	The "Total clients" value for clients aged 45 and over should be less than or equal to the "Total clients" value for those aged 45 and over for PI03 PI09 and PI16		
<u>16</u>	03,09, 14	The "Total clients" value for a particular age group and sex needs to be the same as the corresponding "Total clients" values on PI03, PI09 and PI14		
	05, 07, 18, 23	The "Total clients" value for a particular age group and sex needs to be greater than or equal to the corresponding "Total clients with Type 2 diabetes" 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 "Alcohol consumption recorded" should be greater than or equal to the "Total clients with AUDIT-C test" for PI17 by age group and sex		
	18, 20	For clients aged 35 to 64: The "Total clients" values should be equal to the "Total clients with CVD" values for PI18 (CVD) plus the "Total clients without CVD" values for PI20		

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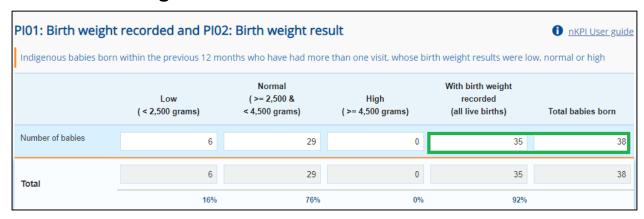
Indicator	Linked To	Link Type	
		For clients aged 65 and over: The "Total clients" values should be greater than or equal to the "Total clients with CVD" values for PI18 plus the "Total clients without CVD" values for PI20	
	22	The number of female "Total clients" in a particular age group should be greater than or equal to the "Total female clients without a hysterectomy" on PI22	
<u>17</u>	16	The "Total clients with AUDIT-C test" value needs to be more than the clients with "Alcohol consumption recorded" for the corresponding age group on PI16	
18	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	For clients aged 35 to 64: The "Total clients" values should be equal to the "Total clients with CVD" values for PI18 (CVD) plus the "Total clients without CVD" values for PI20	
		For clients aged 65 and over: The "Total clients" values should be greater than or equal to the "Total clients with CVD" values for Pl18 plus the "Total clients without CVD" values for Pl20	
	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 "eGFR only" and "Both an eGFR and an ACR" values recorded for each sex and age group should be equal to the "Total clients with Type 2 Diabetes with an eGFR test" for the corresponding groups on PI19	
	19	The "eGFR recorded" for PI18 CVD by age group and sex should be the same as the "Total clients with CVD, with an eGFR test" for PI19 CVD by age group and sex	
	19	The sum of the "ACR only" and "Both an eGFR and an ACR" values recorded for each sex and age group should be equal to the "Total clients with ACR test" for the corresponding groups on PI19	
<u>19</u>	18	The values in the "Total clients with Type 2 Diabetes, with an eGFR test" cells by age group and sex should equal the sum of the corresponding "eGFR only" and "Both an eGFR and an ACR" values on PI18	
		The value in the "Total clients with CVD, with an eGFR test" cells by age group and sex should equal the corresponding "eGFR only" values on PI18	

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Indicator	Linked To	Link Type	
		The values in the "Total clients with ACR test" cells by age group and sex should equal the sum of the corresponding "ACR only" and "Both an eGFR and an ACR" values on PI18	
<u>20</u>	18	For clients aged 35 to 64: The "Total clients" values should be equal to the "Total clients with CVD" values for PI18 (CVD) plus the "Total clients without CVD" values for PI20	
		For clients aged 65 and over: The "Total clients" values should be greater than or equal to the "Total clients with CVD" values for PI18 plus the "Total clients without CVD" values for PI20	
	21	The totals by age group and sex should be greater than or equal to the totals on Pl21 by age group and sex	
<u>21</u>	20	The totals by age group and sex should be less than or equal to the totals on PI20 by age group and sex	
<u>22</u>	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 Pl03, Pl09, Pl14 and Pl16	
		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 Pl03, Pl09 and Pl16	
<u>23/24</u>	03, 09, 14, 16	The Type 2 diabetes should be less than or equal to the totals on Pl03, Pl09, Pl14 and Pl16 by age group and sex (for the corresponding age groups)	
	05,07,18	The "Total clients with Type 2 Diabetes" value should always equal the corresponding value on PI05, PI07, and PI18	
25	03	The number of regular clients in an age group on Pl03 should equal the sum of the clients in the corresponding age groupings on Pl25	
	09	The number of regular clients in an age group on Pl03 should equal the sum of the clients in the corresponding age groupings on Pl25	
TNATSIRC	03, 09	The number of "Indigenous clients with both a sex and age recorded" should be greater than or equal to all clients that are included in the totals of Pl03 (0-14 years) and Pl09 (15 years and over)	
	03	Total male and female clients across all age ranges in Pl03 should not be more than Indigenous clients with both a sex and age recorded in TNATSIRC.	

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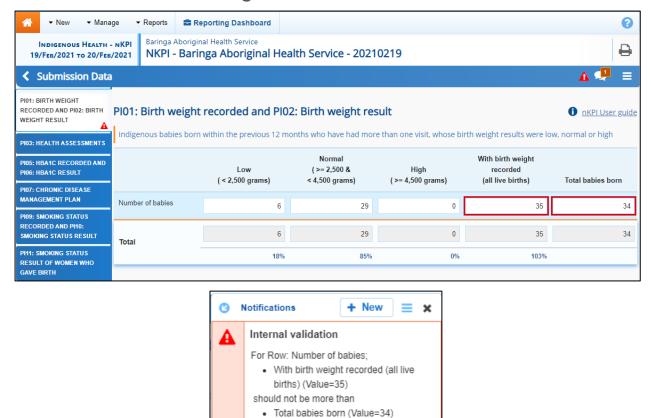
PI01: Birth weight recorded



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.

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Issue 1 – Numerator is larger than the denominator



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

comment. 25/Oct/2023 08:51

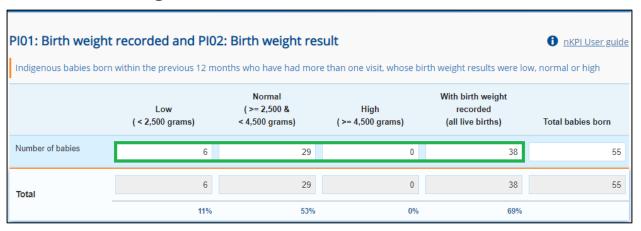
Issue: The "Total babies born" value is less than the "With birth weight recorded (all live births)" value

Please amend your data or provide a

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

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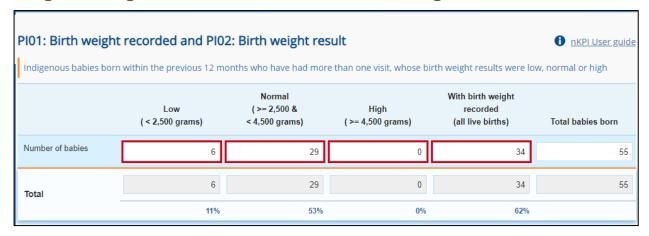
PI02: Birth weight result

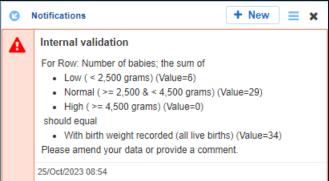


The cells highlighted above in green make up **PI02: Birth weight result**. All data validation issues for PI02 involve at least one of these cells.

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





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

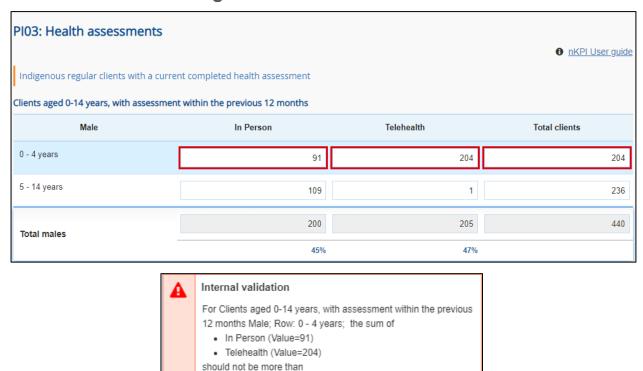
Action required if values need amending: Amend the values as required to ensure the three denominators are the same. If the values you see on the screen are correct, delete the values, re-enter them and then select **Save**. The validation flag should then be cleared

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

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PI03: Health assessments

Issue 1 - Numerator larger than the denominator



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)

Please amend your data or provide a comment.

. Total clients (Value=204)

25/Oct/2023 09:24

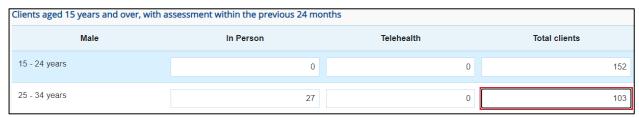
Issue: The combined Male 0-4 years "In Person" and "Telehealth" values are more than the "Total clients" value

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

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Issue 2 – 15+ Denominators not matching those on Pl09, Pl14 and Pl16

PI03



PI09

PI09: Smoking status recorded and PI10: Smoking status result Indigenous regular clients with a smoking status result					1 nKPI User guide
Male	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	52	6	50	108	152
25 - 34 years	60	4	11	75	104

PI16





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

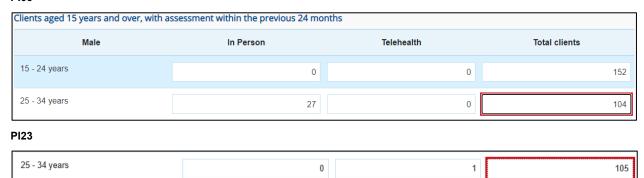
Issue: The applicable "*Total clients*" age group and sex value on Pl03 is different to the corresponding "*Total clients*" values on Pl09, Pl14 and/or Pl16

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

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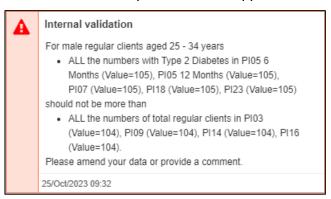
Issue 3 – Denominators on PI03, PI09 and PI16 are less than the denominators for PI05, PI07, PI18 and PI23

PI03





The above PI23 screenshot is an example. The same applies to PI05, PI07 and PI18.



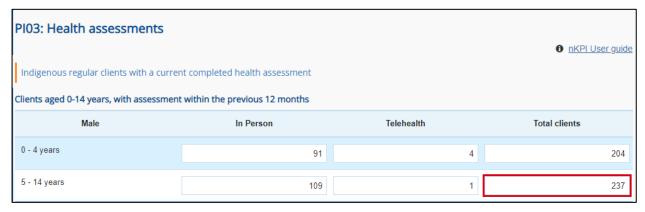
AIHW rule: Against each row on Pl03, Pl09, Pl14 and Pl16, where age is >=15, "*Total clients*" must be greater than or equal to "*Total clients with Type 2 diabetes*" on Pl05, Pl07, Pl18 and Pl23 (NVR-03E)

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 Pl03, Pl09 and Pl16 are greater than or equal to the corresponding values on Pl05, Pl07, Pl18 and Pl23

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Issue 4 - 5 - 14 years denominator not matching denominator on PI14



PI14



AIHW rule: Against each row on Pl03, where age is 5 – 14 years, "*Total clients*" must be equal to the corresponding "*Total clients*" rows on Pl14 (NVR-03F)

PI14: Total clients (Value=236)
 Please amend your data or provide a comment.

25/Oct/2023 09:33

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

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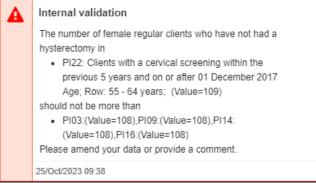
Issue 5 – Denominators for Females aged between 25 and 64 are less than corresponding denominator on PI22

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





AIHW rule: Against each row on Pl03, Pl09, Pl14 and Pl16, where age is >=25 and <=64 and the sex is female, "*Total clients*" must be greater than or equal to the corresponding row on Pl22, "*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 Pl03 are greater than or equal to the corresponding "*Total female clients without a hysterectomy*" value on Pl22

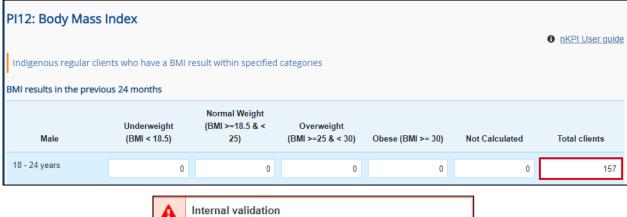
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Issue 6 – 15+ denominators are less than corresponding denominators on PI12

PI03



PI12





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-03I)

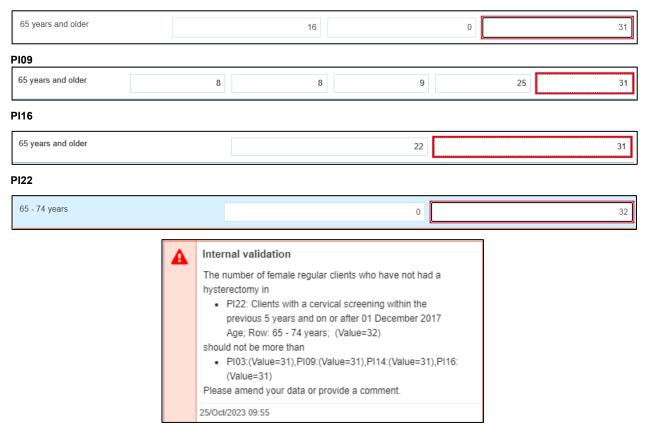
Issue: The PI03 Male 15-24 years "*Total clients*" value is greater than the corresponding "*Total clients*" value on PI12

Action required if values need amending: Amend the value so the Male Pl03 15-24 years "*Total clients*" value matches the corresponding "*Total clients*" value on Pl12

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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



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)

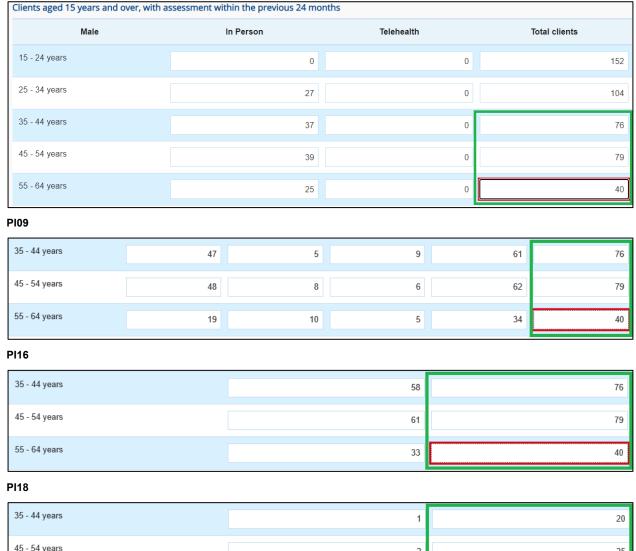
Issue: The denominators for female clients aged 65+ for PI03, PI09, PI14 and PI16 are less than the denominator for PI22 clients aged 65-74

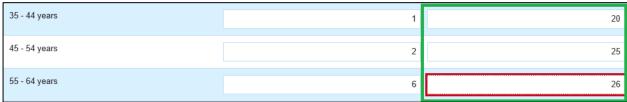
Action required if values need amending: Amend the applicable "*Total clients*" values so the "*Total clients*" values for female clients aged 65+ on Pl03, Pl09, Pl14 and Pl16 are greater than or equal to the "*Total clients*" values for Pl22 female clients aged 65-74

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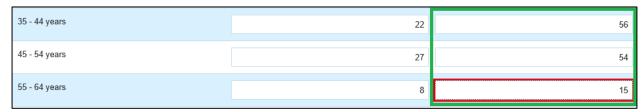
Issue 8 – Total Indigenous clients for PI03, PI09 and PI16 by age group and sex are less than the denominators for PI18 CVD by age group and sex plus the denominators for PI20 by age group and sex, for clients aged 35 - 64

PI03





PI20



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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.

25/Oct/2023 09:38

AIHW rule: Against each row on PI03, PI09, PI14 and PI16 where age is >=35 years and <=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 Pl03, Pl09 and Pl16 are equal to "*Total clients with CVD*" for male clients aged 55 to 64 in Pl18 CVD, plus "*Total clients without CVD*" for male clients aged 55 to 64 in Pl20

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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



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)

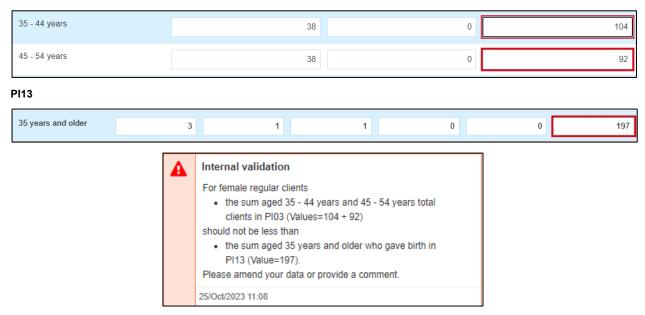
Issue: The "*Total clients*" values for Male clients aged 65 and older for PI03, PI09, PI14 and PI16 are less than the "*Total clients with CVD*" value for Male clients aged 65 and older on PI18 plus the "*Total clients without CVD*" value for Male clients aged 65 – 74 on PI20

Action required if values need amending: Amend the applicable values so the "*Total clients*" values for Male clients aged 65 and older in Pl03, Pl09, Pl14 and Pl16 are greater than or equal to the corresponding "*Total clients with CVD*" value for Pl18 CVD plus the "*Total clients without CVD*" value for Pl20

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Issue 10 – Total female clients aged 35 – 44 and 45 – 54 in Pl03 are less than total female clients aged 35 and over in Pl13

PI03



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 Pl03 are greater than or equal to the value in the "*Total clients*" cell for females aged 35 years and older in Pl13

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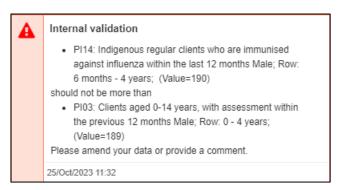
Issue 11 – 0 – 4 years denominator is less than corresponding denominator on PI14

PI03



PI14





AIHW rule: Against each row on Pl03, where the age is 0-4 years, the "*Total clients*" value must be greater than or equal to the "*Total clients*" row on Pl14 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

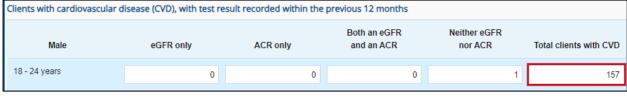
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Issue 12 – The denominator on PI03 is less than the corresponding denominator on PI18 with CVD

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





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)

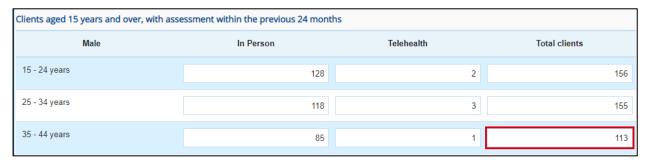
Issue: The PI03 Male 15 – 24 years "*Total clients*" value is less than the corresponding "*Total clients with CVD*" value on PI18

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

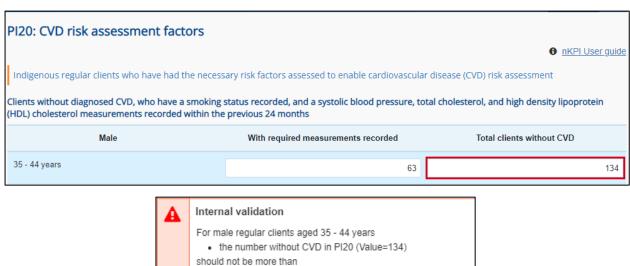
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Issue 13 – The denominator on PI03 is less than the corresponding denominator on PI20 without CVD

PI03



PI20



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)

· ALL the numbers of total regular clients in PI03

Please amend your data or provide a comment.

(Value=113).

25/Oct/2023 11:41

(Value=113), PI09 (Value=113), PI14 (Value=113), PI16

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

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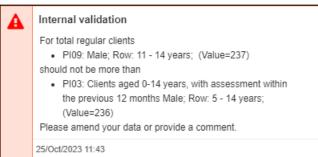
Issue 14 – 5 – 14 years denominator is less than the corresponding denominator on PI09

PI03

PI03: Health assessments			ð <u>nKPI User guide</u>
Indigenous regular clients with a currer			
Male	In Person	Telehealth	Total clients
0 - 4 years	91	4	204
5 - 14 years	109	1	236

PI09





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)

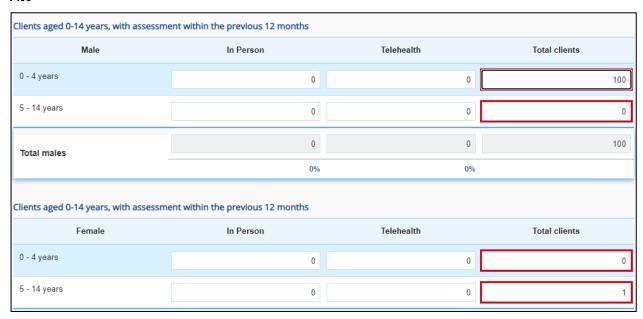
Issue: The PI03 Male 5 – 14 years "*Total clients*" value is less than the Male 11 – 14 years "*Total clients*" value on PI09

Action required if values need amending: Amend the applicable value to ensure the Pl03 5 – 14 years "*Total clients*" value is greater than or equal to the 11 – 14 years "*Total clients*" value on Pl09

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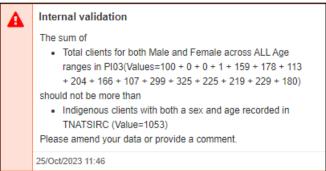
Issue 15 – Total clients are more than clients with age and sex recorded on TNATSIRC

PI03



TNATSIRC





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 Pl03 (NVR-ASY)

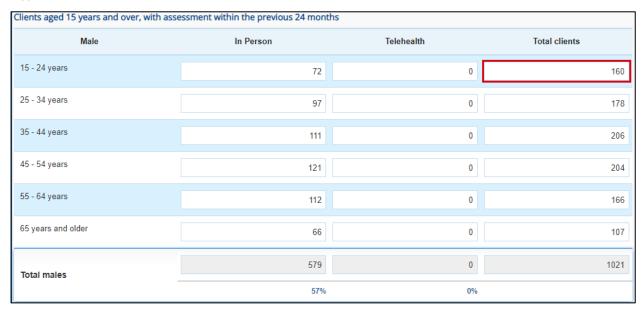
Issue: The Indigenous regular clients with age and sex recorded on TNATSIRC are less than the "*Total clients*" for both male and female across all ranges on Pl03

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

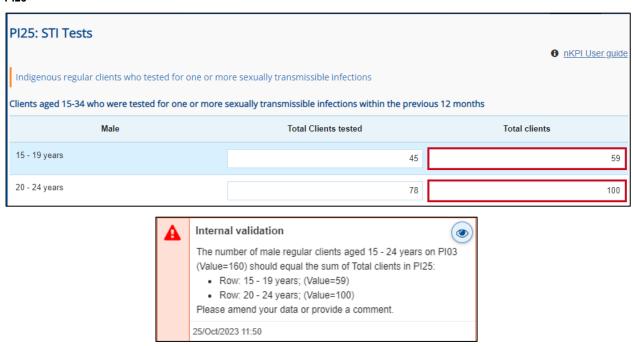
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Issue 16 – The number of clients in an age group do not match the corresponding age groups in PI25

PI03



PI25



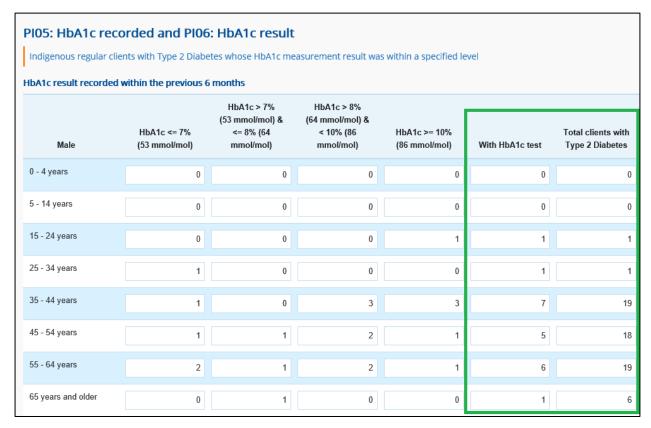
AIHW rule: The number of regular clients in a particular age group on Pl03 should equal the sum of the corresponding age groups in Pl25

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 Pl03 equals the combined number of clients between 15 and 19 and 20 and 24 on Pl25

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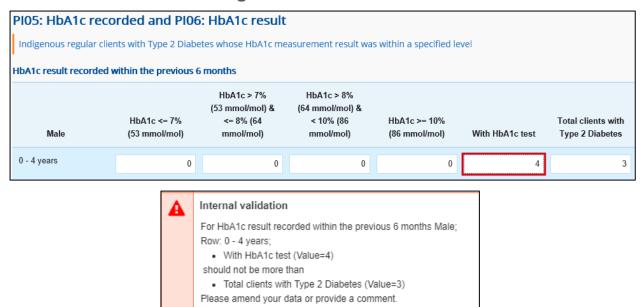
PI05: HbA1c recorded



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

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Issue 1 – Numerator is larger than the denominator



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)

25/Oct/2023 12:10

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

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

PI05 (previous 6 months)

dbA1c 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				

PI05 (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

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Internal validation

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

 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.

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)

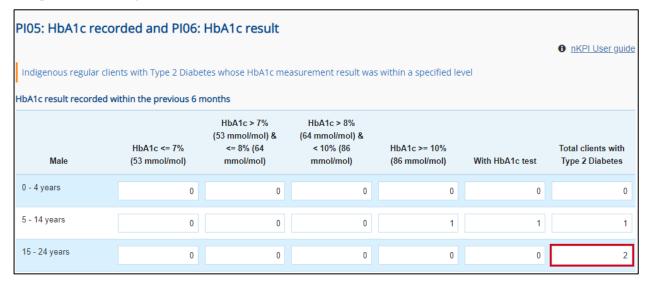
Issue: The "With HbA1c test" value for Male clients 65 years and older for the previous 6 months is larger than the corresponding "With HbA1c test" value for the previous 12 months

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

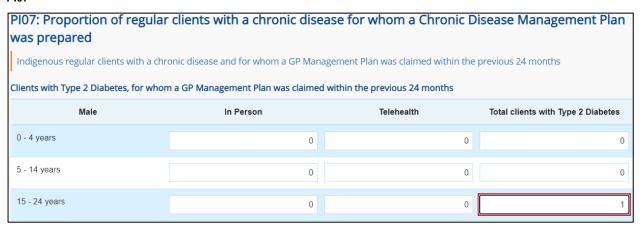
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Issue 3 – Denominators (6 and 12 months) are different to the denominators for PI07, PI18 and PI23

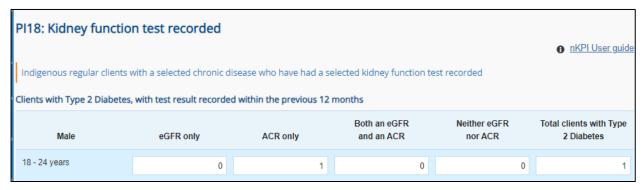
PI05 (previous 6 months)



PI07

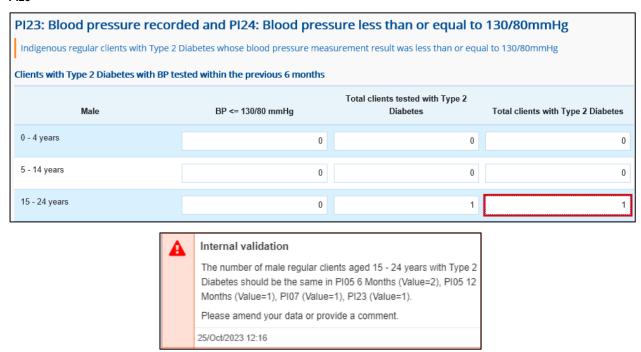


PI18



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PI23



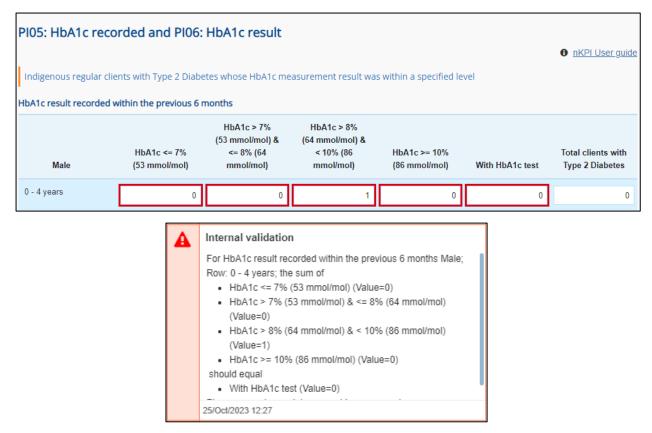
AIHW rule: The denominators by age group and sex for PI05 (6 and 12 months) should be the same as the denominators for PI07, PI18 (Type 2 diabetes) and PI23 (NVR-05C)

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

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Issue 4 – Numerators are different to the denominator for PI06



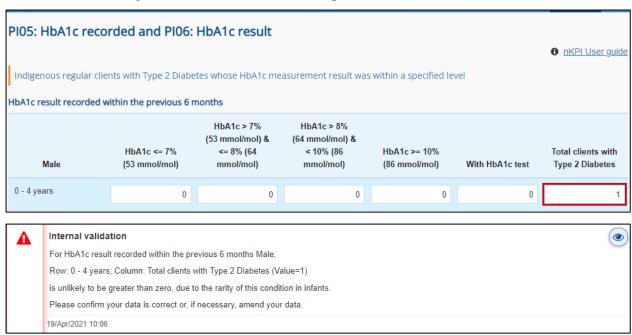
AIHW rule: The numerators for PI05 by age group and sex should be the same as the denominators for PI06 by age group and sex (NVR-05D)

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

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



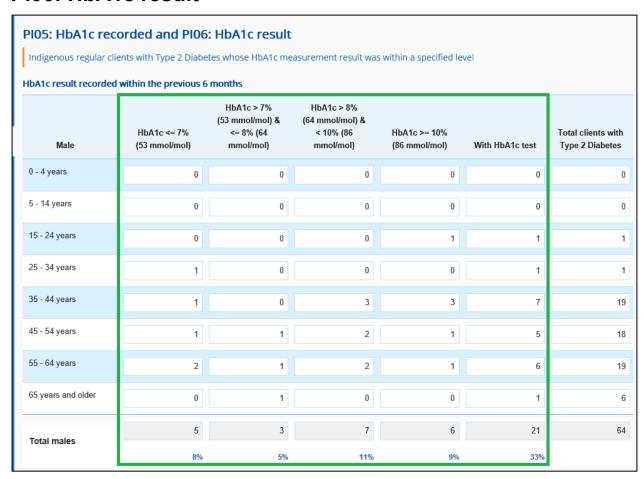
AIHW rule: The denominators for PI05 (6 and 12 months) for Indigenous regular clients aged 0 – 4 should equal 0 (NVR-05Z)

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

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PI06: HbA1c result

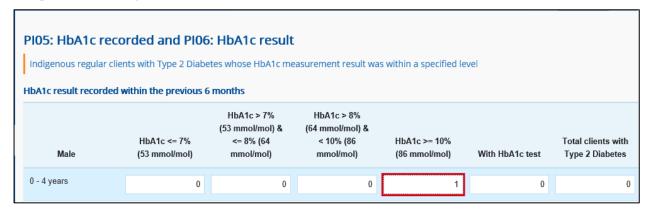


The cells highlighted above in green make up **PI06: HbA1c result**. All data validation issues for PI06 involve at least one of these cells.

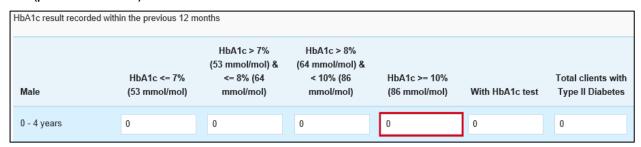
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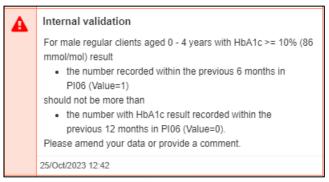
Issue 1 – Numerator for 6 months is larger than the numerator for 12 months

PI06 (previous 6 months)



PI06 (previous 12 months)





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)

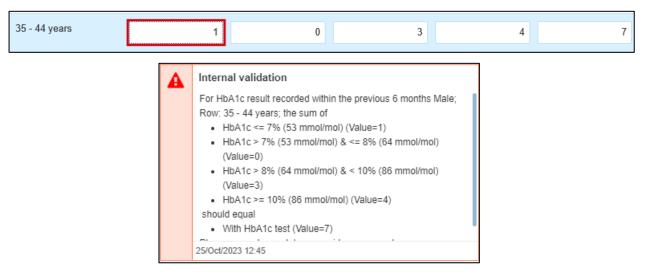
Issue: The Male 0-4 years "HbA1c >= 10% (86 mmol/mol)" value for the previous 6 months is larger than the corresponding "HbA1c >= 10% (86 mmol/mol)" value for the previous 12 months

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

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

PI06



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

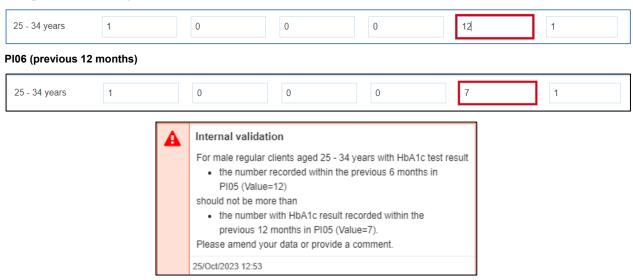
Action required if values need amending: Amend the applicable values to ensure the denominators for each HbA1c result (<7%; >7% and ≤8%; >8% and <10%; and > 10%) are the same within each age/sex group for PI06 12 months

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

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

PI06 (previous 6 months)



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



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

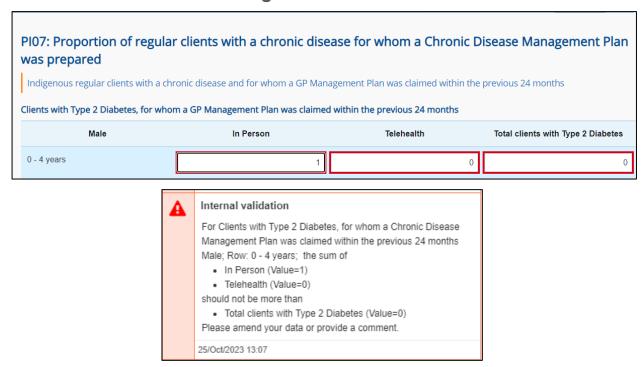
Issue: The Male 25 – 34 years (...previous 6 months) "With HbA1c Test" value is larger than the corresponding "Total clients with Type 2 Diabetes" value

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

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PI07: Chronic disease management plan

Issue 1 – Numerators are larger than the denominators



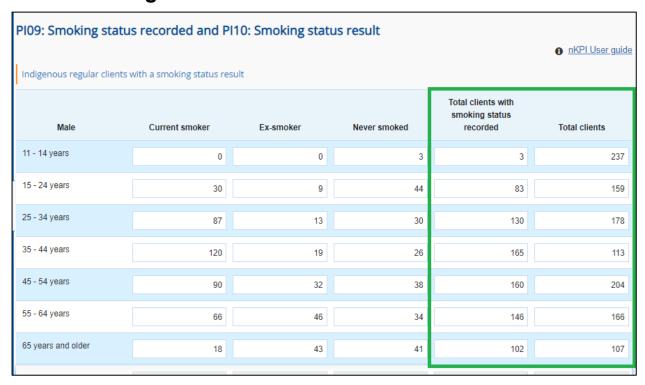
AIHW rule: Against each row on PI07, the sum of "In Person" and "Telehealth" cannot be more than "Total clients with Type 2 Diabetes" (NVR-07A)

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

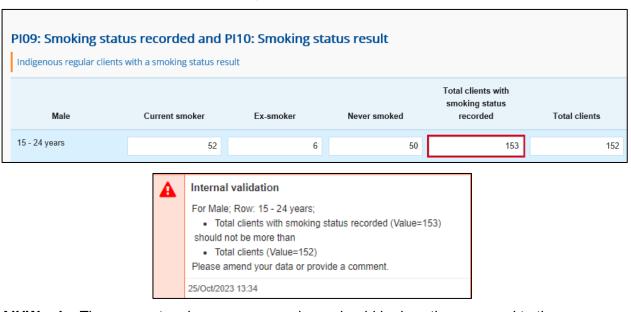
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PI09: Smoking status recorded



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



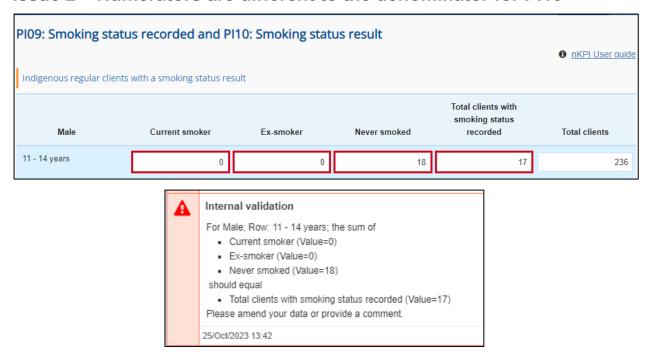
AIHW rule: The numerators by age group and sex should be less than or equal to the denominators by age group and sex (NVR-09A)

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

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Issue 2 – Numerators are different to the denominator for PI10



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

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PI09

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

65 years and older 43 102 18 41 12 PI03 65 years and older 66 **PI16** 65 years and older 69 PI14 65 years and older 42 13 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.

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.

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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

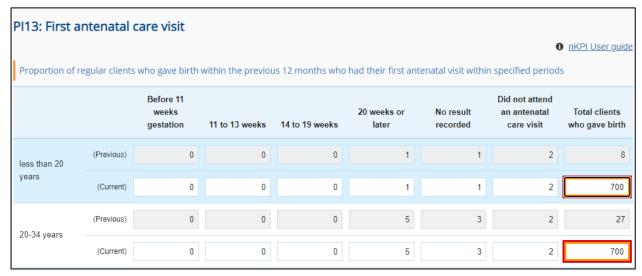
P109

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





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

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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 PI09 and PI16 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 PI13

Issue 5 – The sum of denominators for females aged 35-44 and 45-54 for PI09 and PI16 are less than the sum of the denominators for clients aged 35 + for PI13

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

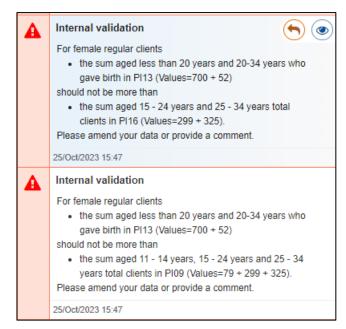
PI16



PI13



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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-09O)

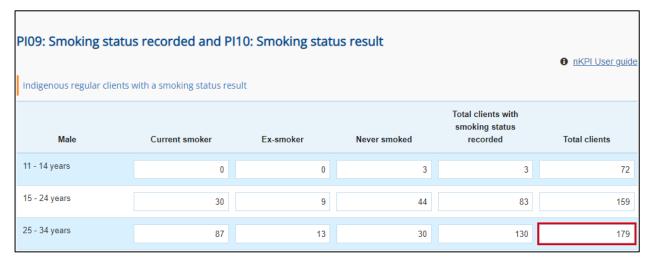
Issue: The "*Total clients*" values for females aged 35-44 and 45-54 for PI09 and PI16 are less than the sum of the "*Total clients who gave birth*" values for female clients aged 35+ for PI13

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 Pl09 and Pl16 are greater than or equal to the sum of the "*Total clients who gave birth*" values for female clients aged 35+ for Pl13

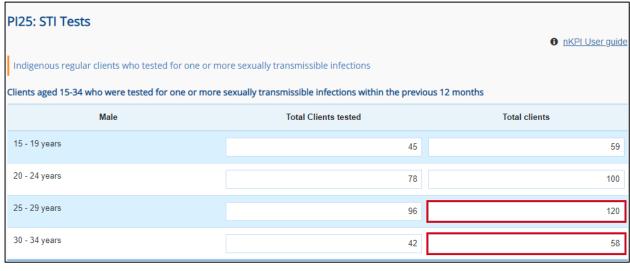
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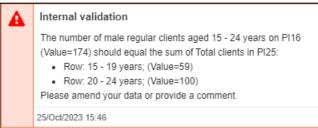
Issue 6 – The number of clients in an age group do not match the corresponding age groups in PI25

PI09



PI25





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 Pl09 equals the combined number of clients between 25 and 29 and 30 and 34 on Pl25

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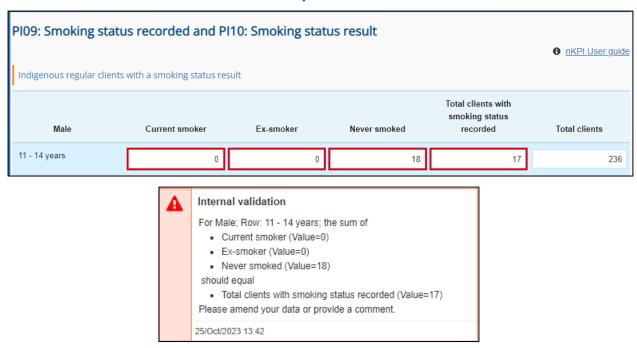
PI10: Smoking status result

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	
Total males	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.

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



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

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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)

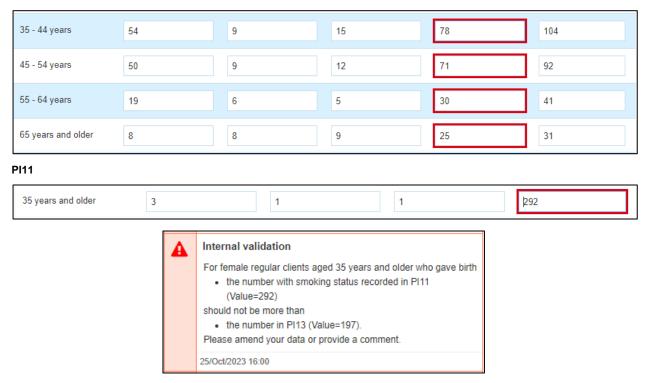
Issue: The denominators for each smoking status (current smoker, ex-smoker, never smoked) aren't the same within each age/sex group

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



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)

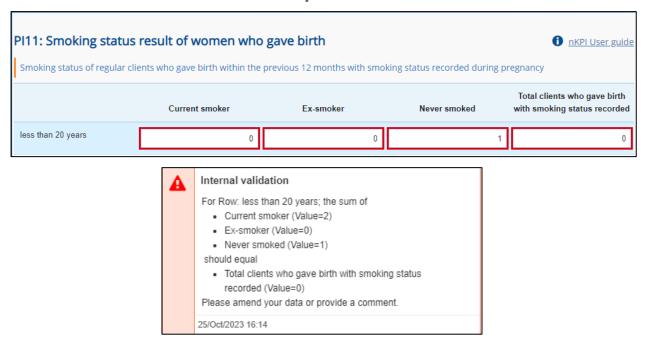
Issue: The Female 35 years and older "*Total clients*" value for PI11 is more than the sum of the Female 35 + "*Total clients*" values for PI10

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

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PI11: Smoking status result of women who gave birth

Issue 1 - Numerators don't add up to the denominator



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

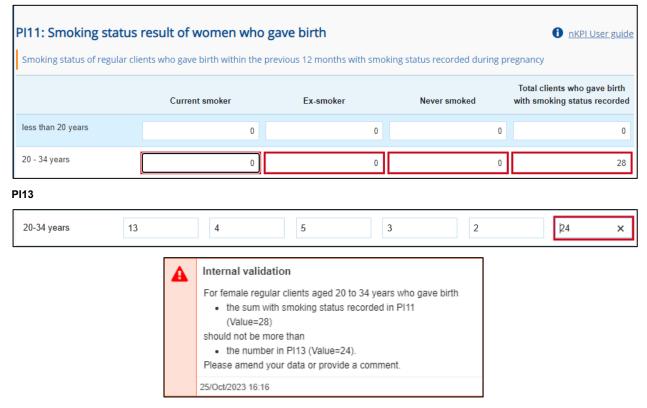
Issue: The values in the "Current smoker" "Ex-smoker" and "Never smoked" cells don't add up to equal the value in the "Total clients who gave birth with smoking status recorded" cell

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

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Issue 2 – Denominator is larger than the denominator for PI13

PI11



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

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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

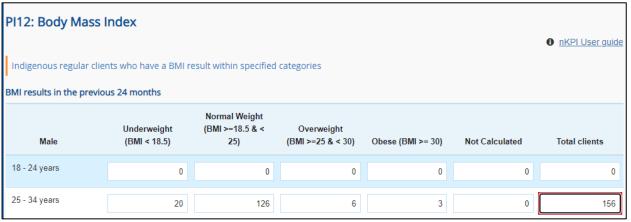
Action required if values need amending: Amend the applicable value to ensure the denominators for each BMI category (underweight, normal, overweight, and obese) are the same within each age/sex group. Note that you can only see one value for each denominator on the screen. If the value shown is correct, 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

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

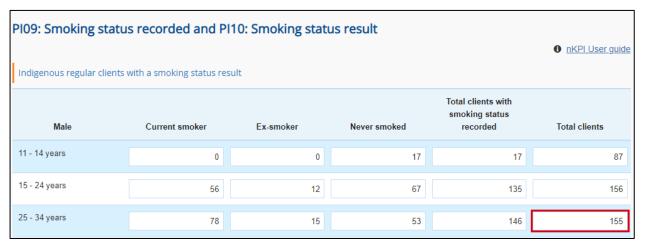
PI12



PI03



PI09



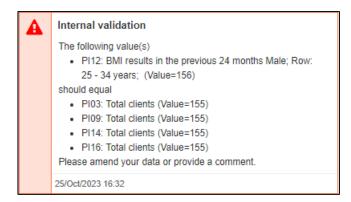
PI14



PI16



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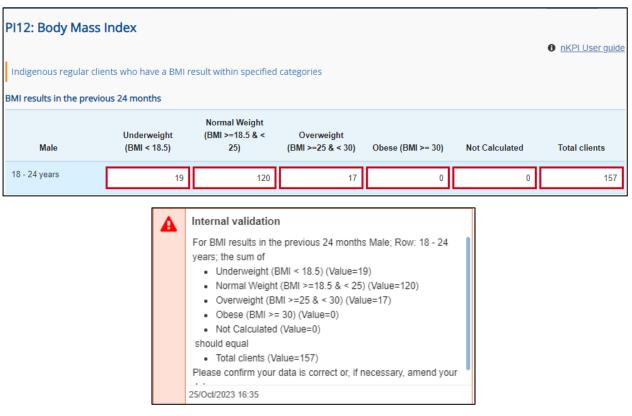
AIHW rule: Against each row on every table, "*Total clients*" by age group and sex for PI12 should equal the corresponding "*Total clients*" value in PI03 25+, PI09, PI14 and PI16 (NVR-12B)

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



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)

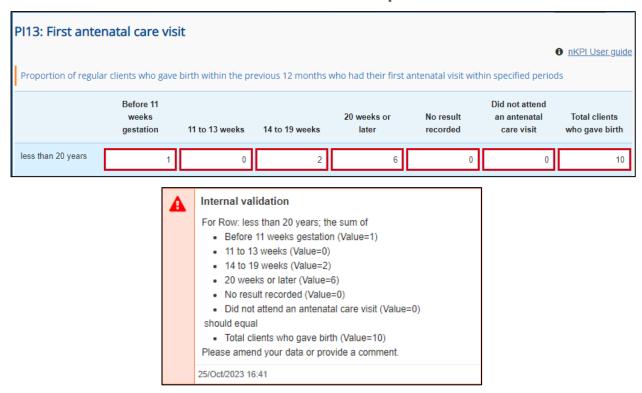
Issue: The Male 18 – 24 years numerator values don't equal the corresponding "*Total clients*" value

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

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PI13: First antenatal care visit

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



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

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PI14: Immunised against influenza 6+ months

Issue 1 – Numerators are larger than the denominators



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

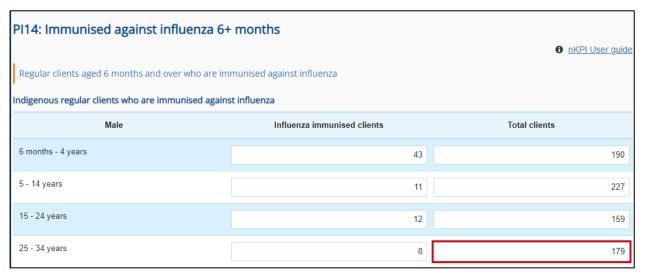
Issue: The Male 6 months – 4 years "*Influenza immunised clients*" value is larger than the corresponding "*Total clients*" value

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

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

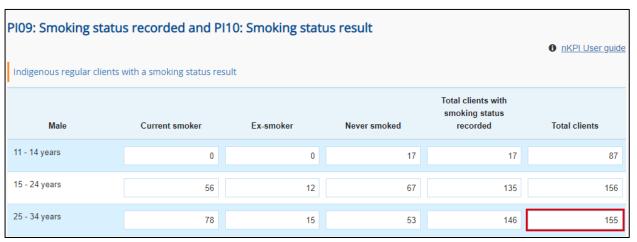
PI14



PI03



PI09

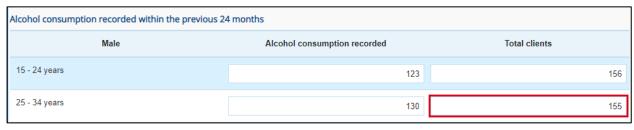


PI12



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PI16





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.

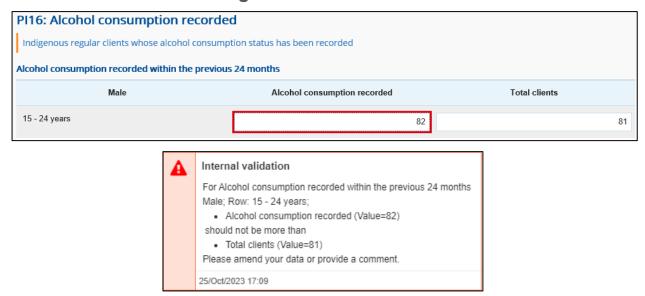
Issue: The Male 25 – 34 years "*Total clients*" value in PI14 is larger than the corresponding "*Total clients*" values for PI03, PI09, PI12 and PI16

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

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PI16: Alcohol consumption recorded

Issue 1 - Numerator is larger than the denominator



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

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

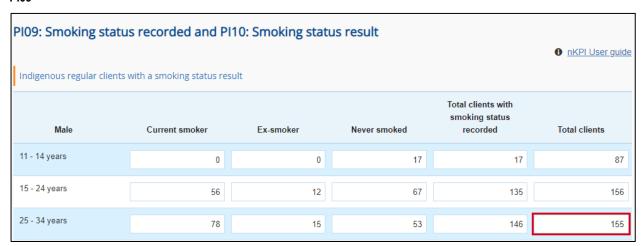
PI16



PI03



PI09



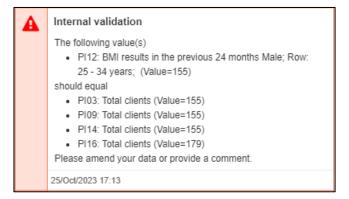
PI12

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



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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.

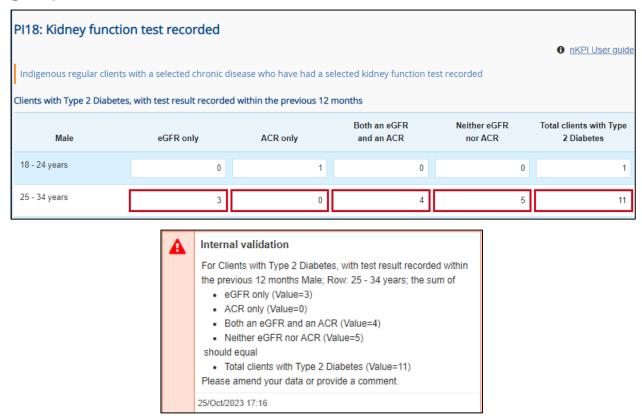
Issue: The Male 25 – 34 years "*Total clients*" value in PI16 is larger than the corresponding "*Total clients*" values for PI03, PI09, PI12 and PI16

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

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PI18: Kidney function test recorded

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



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)

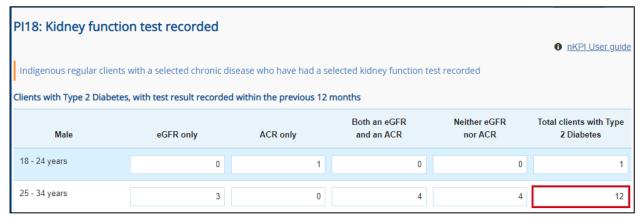
Issue: The sum of the Male 25 – 34 years "eGFR only" "ACR only" "Both an eGFR and an ACR" and "Neither eGFR nor ACR" values is greater than the corresponding "Total clients with Type 2 Diabetes" value

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

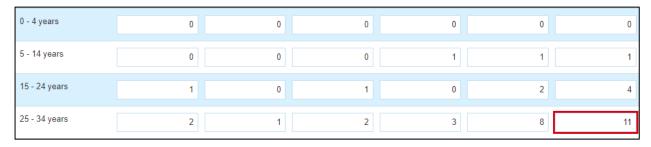
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Issue 2 – Denominators on PI18 don't match the denominators on PI05, PI07, and PI23

PI18



PI05



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



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

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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

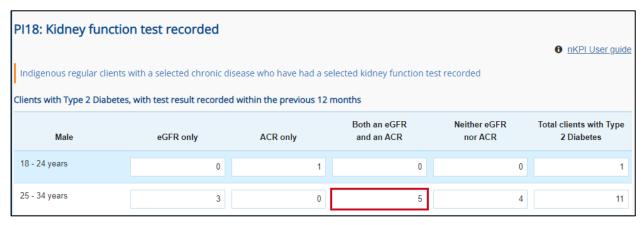
Action required if values need amending: Amend the applicable values to ensure the denominators for each test (eGFR; ACR; and eGFR + ACR) are the same within each age/sex group. Note that you can only see one value for each denominator on the screen. If the value shown on the screen is correct, delete 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

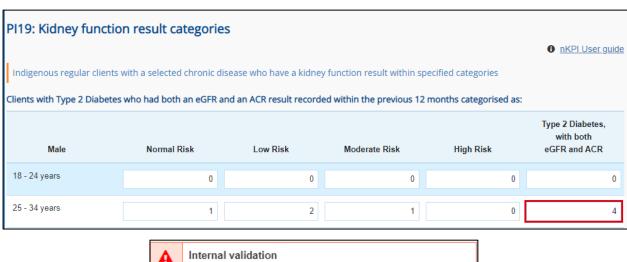
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Issue 4 – eGFR numerators on PI18 don't add up to the denominator on PI19

PI18



PI19





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)

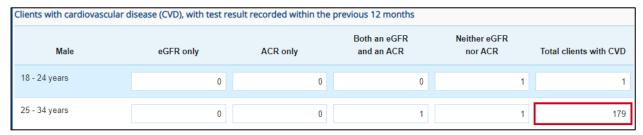
Issue: The Male 25 – 34 years "Both an eGFR and an ACR" value on PI18 don't add up to the Male 25 – 34 years "Total clients with Type 2 Diabetes with an eGFR test" value on PI19

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

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

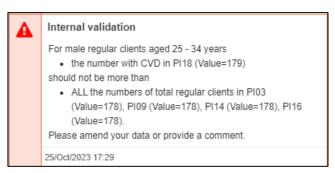
PI18 (CVD)



PI03



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



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)

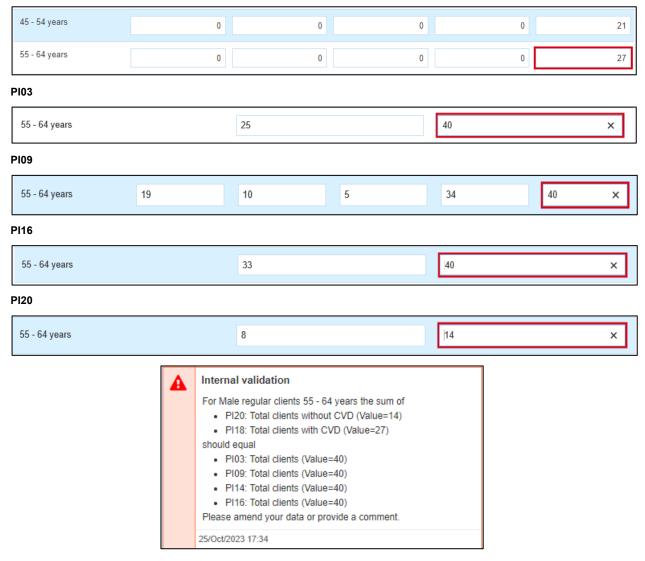
Issue: The Male 25 – 34 years "*Total clients with CVD*" value for PI18 is greater than the Male 25 – 34 years "*Total clients with Type 2 Diabetes*" value for PI03, PI09, PI14 and PI16

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

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

PI18 (CVD)



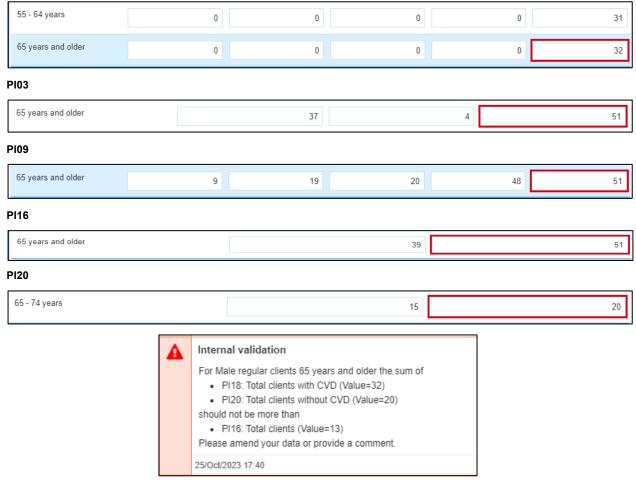
AIHW rule: Against each row on each CVD table, "*Total clients with CVD*" should be equal to the corresponding "*Total clients*" value in PI03, PI09 (15-64 years) PI16 (15-64 years) MINUS the corresponding "*Total clients without CVD*" value in PI20 (NVR-18I)

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

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



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 Pl03, Pl09 and Pl16 minus "*Total clients without CVD*" 65-74 years in Pl20 (NVR-18J)

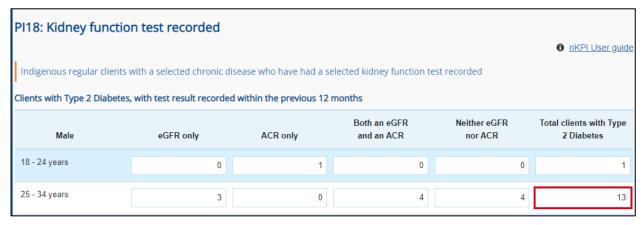
Issue: The Male 65 years and over "*Total clients with CVD*" value for PI18 CVD is larger than the corresponding "*Total clients*" values for PI03, PI09 and PI16, minus the "*Total clients without CVD*" value for PI20, for clients aged 65 and over

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

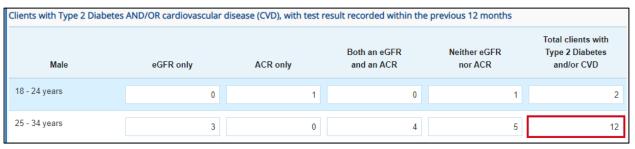
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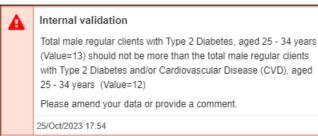
Issue 8 – Type 2 Diabetes Total Clients greater than the corresponding value in the Type 2 Diabetes AND/OR CVD table

Type 2 Diabetes



Type 2 Diabetes AND/OR CVD





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

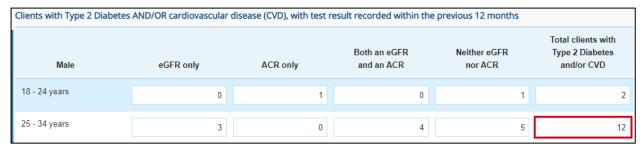
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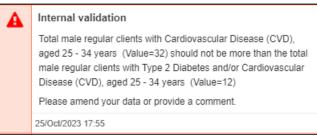
Issue 9 - CVD Total Clients greater than the corresponding value in the Type 2 Diabetes AND/OR CVD table

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	0	0	0	1	1
25 - 34 years	0	0	1	1	32

Type 2 Diabetes AND/OR CVD





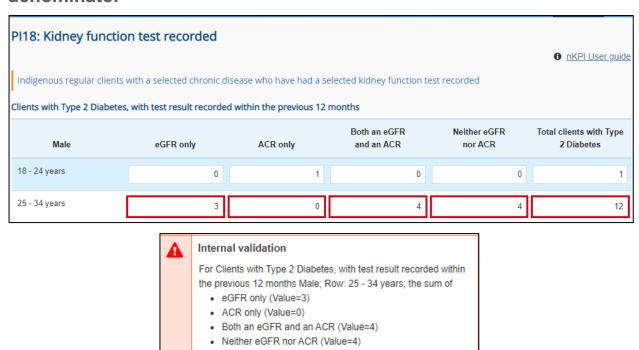
AIHW rule: Against each row on each CVD table, eGFR only, ACR only, Both an eGFR and an ACR, Neither eGFR nor ACR and Total Clients with CVD should be less than or equal to the corresponding value in the Type 2 Diabetes AND/OR CVD table (NVR-18L)

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

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



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)

Total clients with Type 2 Diabetes (Value=12)
 Please amend your data or provide a comment.

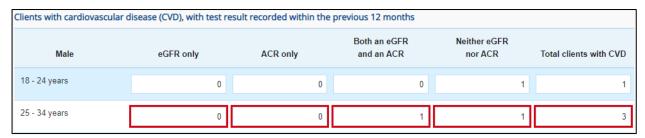
Issue: The Type 2 Diabetes Male 25 - 34 years numerator values are greater than the corresponding value in the "*Total clients with Type 2 Diabetes*" cell

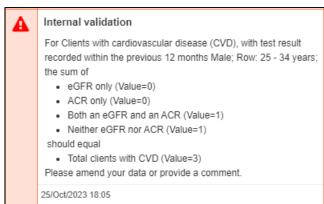
25/Oct/2023 18:03

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

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





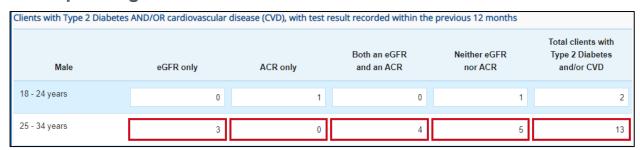
AIHW rule: Against each row on each CVD table, SUM OF *eGFR only*, *ACR only*, *Both eGFR and ACR* and *Neither eGFR nor an ACR* should be equal to "*Total clients with CVD*" (NVR-18N)

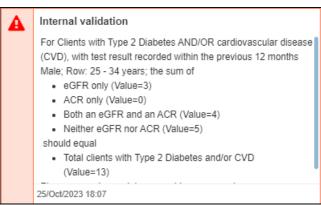
Issue: The CVD Male 25 - 34 years numerator values are greater than the corresponding value in the "*Total clients with CVD*" cell

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

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





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)

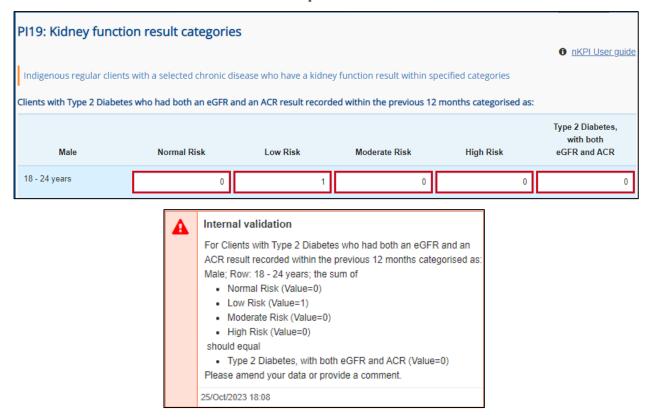
Issue: The Male 25 – 34 years numerator values are greater than the corresponding value in the "*Total clients with Type 2 Diabetes and/or CVD*" cell

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

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PI19: Kidney function result categories

Issue 1 - Numerators don't add up to the denominator



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)

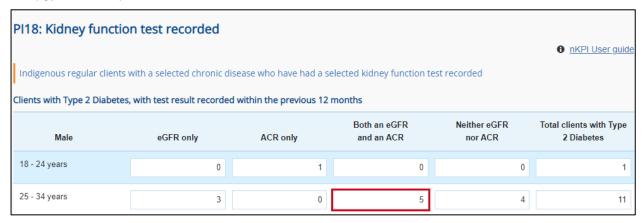
Issue: The Male 18 – 24 years values don't add up to the corresponding "Type 2 Diabetes with both eGFR and ACR" value

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

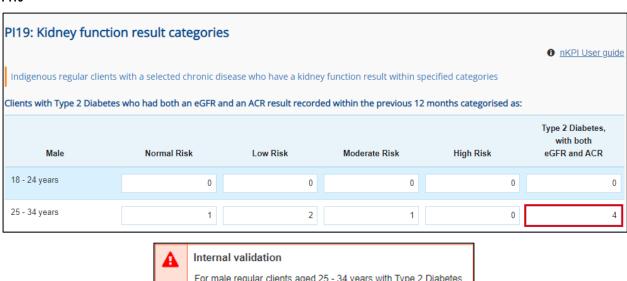
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Issue 2 – Numerators on PI18 (Type 2 Diabetes) don't add up to the denominator on PI19

PI18 (Type 2 Diabetes)



PI19





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

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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)

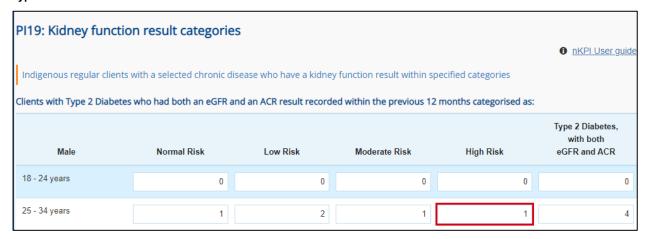
Action required if values need amending: Amend the applicable values to ensure the denominators for each result level (≥90; ≥60 to <90; ≥45 to <60; ≥30 to <45; ≥15 to <30; and <15) are the same within each age group and sex. Note that you can only see one value for each denominator on the screen. If 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

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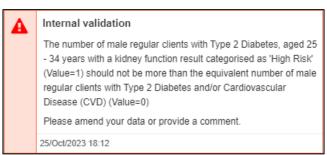
Issue 4 – Type 2 Diabetes totals for a particular sex and age group are greater than the corresponding value in the Type 2 Diabetes AND/OR CVD table

Type 2 Diabetes



Type 2 Diabetes AND/OR CVD





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

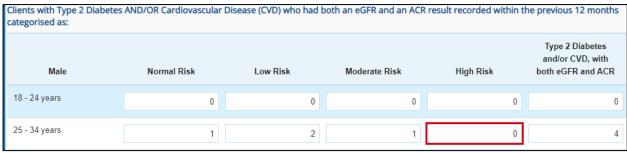
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Issue 5 - CVD totals for a particular sex and age group are greater than the corresponding value in the Type 2 Diabetes AND/OR CVD table

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	0	0	0	0	0
25 - 34 years	0	1	0	1	1

Type 2 Diabetes AND/OR CVD



A	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)

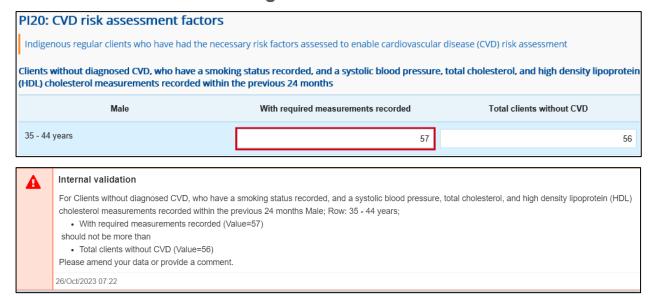
Issue: The CVD Male 25 - 34 years "*High Risk*" value is greater than the corresponding value in the Type 2 Diabetes AND/OR CVD table

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

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PI20: CVD risk assessment factors

Issue 1 – Numerators are larger than the denominator



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)

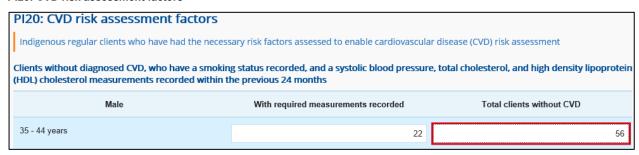
Issue: The Male 35 – 44 years "With required measurements recorded" value is greater than the corresponding "Total clients without CVD" value

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

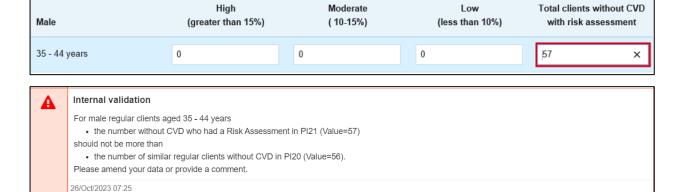
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Issue 2 – Denominator for PI20 is less than the denominator for PI21

PI20: CVD risk assessment factors



PI21: CVD risk assessment result



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)

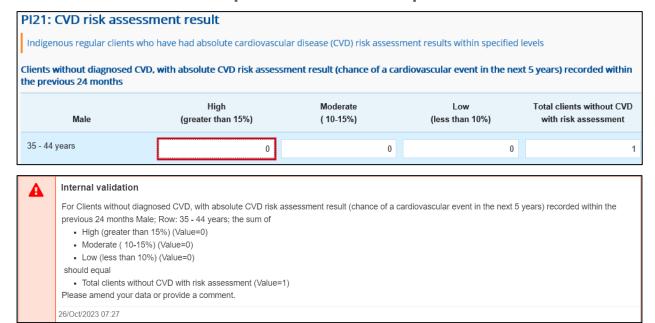
Issue: The Male 35 – 44 years "Total clients without CVD" value on PI20 is less than the corresponding "Total clients without CVD with risk assessment" value

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

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PI21: CVD risk assessment result

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



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

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

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



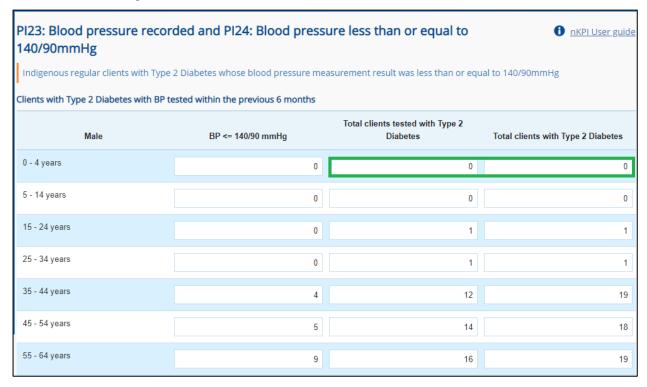
AIHW rule: Against each row on PI22 "Clients with a cervical screening" cannot be more than "Total female clients without a hysterectomy" (NVR-22A)

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

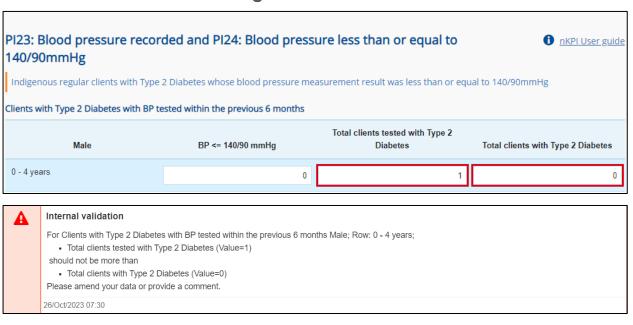
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PI23: Blood pressure recorded



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



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

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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)

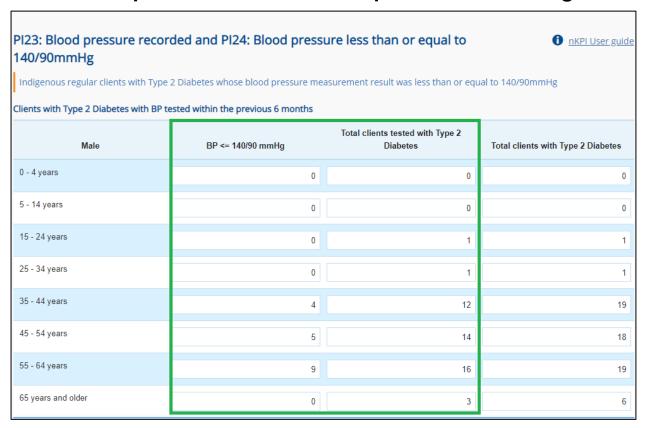
Issue: The numerators for PI23 by age group and sex aren't the same as the denominators for PI24 by age group and sex. Note that you can only see one value for each numerator and denominator on the screen. If the value shown on the screen is correct, delete the value, enter it again and then press **Save**.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

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

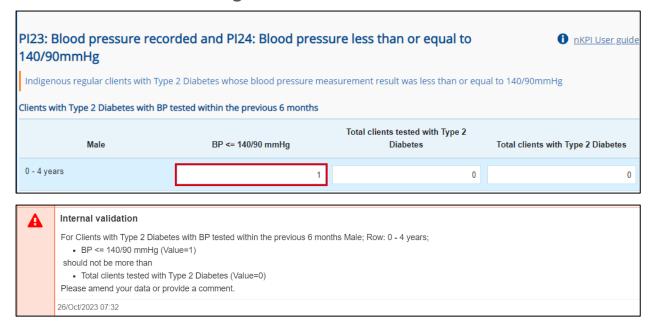


The cells highlighted above make up **PI24: Blood pressure less than or equal to 140/90mm/Hg**. All data validation issues for PI24 involve at least one of these cells.

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.

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Issue 1 – Numerators larger than denominator



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 " $BP \le 140/90mmHg$ " 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

140/9	OmmHg	ded and PI24: Blood pressure mea	·	nKPI User guide		
Clients w	vith Type 2 Diabetes with RP to	ested within the previous 6 months		Ü		
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		
A	Internal validation					
	For Clients with Type 2 Diabetes with BP tested within the previous 6 months Male;					
	Row: 0 - 4 years; Column: BP <= 140/90 mmHg (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.					
	26/Oct/2023 07:32					

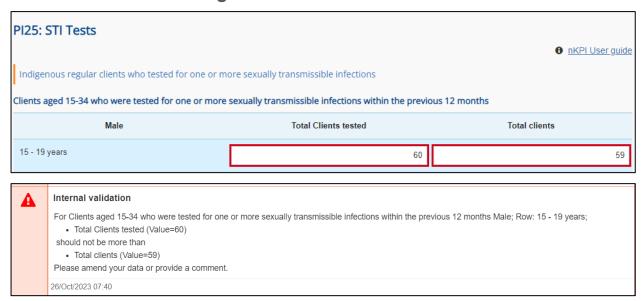
AIHW rule: The numerator for PI24 for Indigenous regular clients aged 0-4 should equal 0 **Issue:** The numerator for PI24 for male Indigenous regular clients aged 0-4 years doesn't equal 0

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

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PI25: STI Tests

Issue 1 - Numerator larger than denominator



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

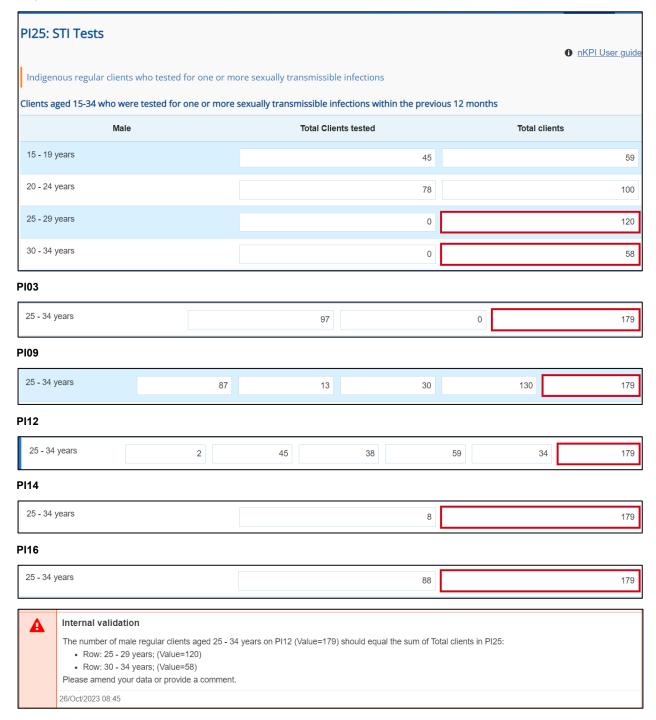
Issue: The Male 15 – 19 years "*Total Clients tested*" value is larger than the corresponding "*Total clients*" value

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

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Issue 2 – Total client age group value doesn't match the corresponding value on Pl03, 09, 12, 14 and 16

PI25



AIHW rule: The denominators by age group should be the same across Pl03, 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

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TNATSIRC: Indigenous regular clients

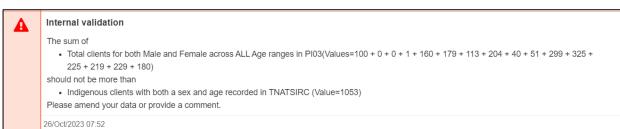
Issue 1 – Clients with age and sex recorded are less than total clients on PI03

TNATSIRC



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			
Total males	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			



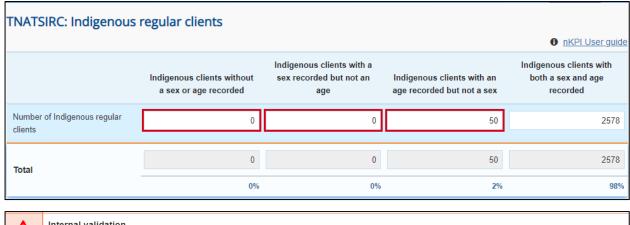
AIHW rule: Indigenous regular clients with age and sex recorded on TNATSIRC must be greater than or equal to "*Total clients*" for both male and female across all ranges on PI03 (NVR-ASY)

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 Pl03

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

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





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

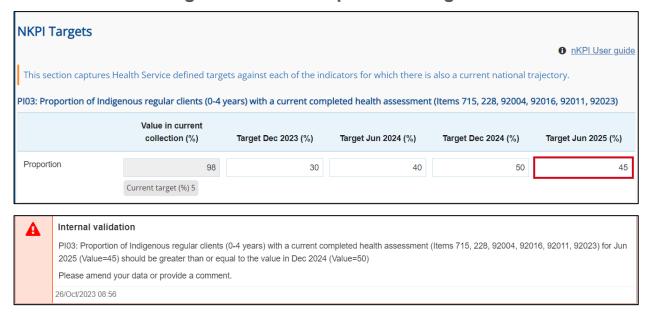
Issue: The "Indigenous regular clients with an age recorded but not a sex" value is larger than 20.

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.

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nKPI Targets

Issue 1 – Future target is lower than previous target

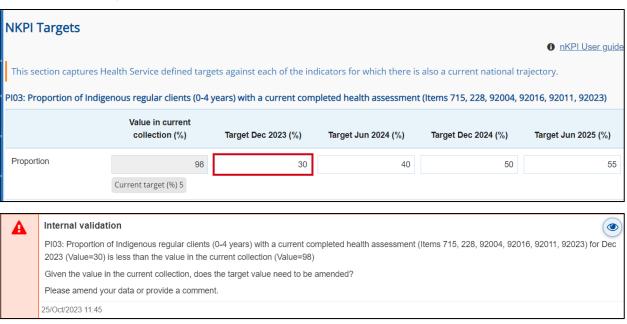


Rule: Your target for "Proportion of Indigenous regular clients ..." for a collection period should be greater than or equal to the target value for the previous collection period

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



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

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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.

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