Australian Government
Department of Health

IHDR NKPI DATA VALIDATION RULES IN THE HEALTH DATA PORTAL

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Contents

About This Guide **5**

Data Validation Issue Overview **6**
Completing nKPIs you don't have data for 6
Working with linked indicators 7

nKPI Validation Rules that can't be broken **14**
PI01: Birth weight recorded 14
PI02: Birth weight result 17
PI03: Health assessments (aged 0 – 14) 20
PI03: Health assessments (aged 25 and over) 23
PI03: Health assessments (ages 35 - 44, 45 - 54) 30
PI03: Health assessments (aged 35 to 64) 31
PI03: Health assessments (aged 65 and over) 33
PI04: Child immunisation 35
PI05: HbA1c recorded 37
PI06: HbA1c result 45
PI07: Chronic disease management plan 49
PI09: Smoking status recorded 53
PI09 (aged 35 to 64): Smoking status recorded 62
PI09 (aged 65 and over): Smoking status recorded 63
PI09 (aged 15 - 24): Smoking status recorded 65
PI09 (ages 35-44, 45-54): Smoking status recorded 66
PI10: Smoking status result 68
PI11: Smoking status result of women who gave birth 72
PI12: Body Mass Index 76
PI13: First antenatal care visit 78
PI14: Immunised against influenza 6+ months 82
PI15: Immunised against influenza – clients with chronic disease (Type 2 diabetes) 92
PI15: Immunised against influenza – clients with chronic disease (COPD) 95
PI16: Alcohol consumption recorded 96
PI17: AUDIT-C result 109
PI18: Kidney function test recorded (Type 2 Diabetes) 111
PI18: Kidney function test recorded (CVD) 115
PI19-A: eGFR result (Type 2 Diabetes) 120
PI19-A: eGFR result (CVD) 122
PI19-B: ACR result (Type 2 Diabetes) 124
PI20: CVD risk assessment factors 126
PI21: CVD risk assessment result 131
PI22: Proportion of regular clients who have had cervical screening (HPV Test) 133
PI23: Blood pressure recorded 137
PI24: Blood pressure less than or equal to 130/80mmHg 140
TNATSIRC: Indigenous regular clients 142

nKPI Validation Rules that can be broken **143**
PI06: HbA1c result (6 and 12 months) 143
PI07: Chronic disease management plan 144
PI12: Body Mass Index 145
PI15: Clients with chronic disease immunised against influenza – COPD 146

PI18: Clients with Type 2 Diabetes or CVD with a kidney function test 148
PI23: Blood pressure recorded 151
PI24: Blood pressure result 152
TNATSIRC 153

Time Trend Validation 156

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.

This guide will go through each of the 24 nKPIs Health Services are funded to report on through the Data Portal, and detail each of the data validation flags that could potentially appear for each of the indicators.

The AIHW nKPI data validation rules are broken down into two groups:

- Rules that *can't* be broken
- Rules that *can* be broken

With this in mind, this user guide is separated into different sections: one that covers the rules that *can't* be broken and one that covers the rules that *can* be broken

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.

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 enters it into the Data Portal manually, data validation will be 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 utilised to highlight the fields in question in red.

Completing nKPIs you don't 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 six maternal and child health indicators they report on (PI01, PI02, PI03, PI04, PI11 and PI13). For these services, the nKPI form they get presented with will only contain these six 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 each of the cells (numerator and denominator) are blank.

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

For more information regarding how to work with indicators your Health Service doesn't report on, see the *Completing nKPIs you Don't Have Data for* QRG through the *User Support* section on any screen in the Data Portal.

Working with linked indicators

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

For example, if there are five indicators that contain "Total clients" values 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
01	02	The numerator value "*With birth weight recorded (all live births)*" needs to be greater than or equal to the PI02 total value "*With birth weight recorded (excludes multi-births)"*
02	01	The total value "*With birth weight recorded (excludes multi-births)'* needs to be less than or equal to the PI01 numerator value "*With birth weight recorded (all live births)"*
03	04	The 0 – 14 years *"Total clients"* value should be greater than or equal to the "Indigenous Children" total on PI04
	05, 07, 15, 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, PI15, PI18 and PI23
	09,16	The "*Total clients*" value for a particular age group and sex needs to be the same as the corresponding "*Total clients*" values on PI09 and PI16
	12	The "*Total clients*" values should be greater than or equal to the "*Total clients with BMI recorded*" 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 PI03 should be greater than or equal to the "*Total clients who gave birth*" values for those aged 35 and over for PI13
	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
	15	The "*Total clients*" values should be greater than or equal to the "*Total clients with COPD"* values for PI15 (COPD)
	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

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 female "*Total clients*" for a particular age group should be greater than or equal to the "*Total female clients without a hysterectomy*" on PI22
04	03	The "*Indigenous children"* values sum should be less than or equal to the 0 – 14 years *"Total clients"* value on PI03
05	03, 09, 16	The totals by age group and sex for Type 2 diabetes for ages 15-24, 25-34, 35-44 should be less than or equal to the totals by age group and sex on PI03, PI09 and PI16 (for the corresponding age groups)
	06	The "*With HbA1c Test*" value should always equal the sum of the HbA1c values on PI06 The "*Total clients with Type 2 Diabetes*" value should always be greater than or equal to the sum of the HbA1c values on PI06
	07,15,18,23	The "*Total clients with Type 2 Diabetes*" value should always equal the corresponding value on PI07, PI15, PI18 and PI23
	15	The totals by age group and sex for those aged 45-54 for Type 2 diabetes should be greater than or equal to the totals by age group and sex for PI15 (Type 2 diabetes) for those aged 45-49
06	05	The sum of the HbA1c result values should equal the "*With HbA1c Test*" value on PI05
		The sum of the HbA1c values should always be less than or equal to the "*Total clients with Type 2 Diabetes*" value on PI05
07	03, 09, 16	The totals by age group and sex should be less than or equal to the totals by age group and sex on PI03, PI09 and PI16 (for the corresponding age groups)
	05,15,18,23	The "*Total clients with Type 2 Diabetes*" should always equal the corresponding value on PI05, PI15, PI18 and PI23
	15	The totals by age group and sex for those aged 45-54 for Type 2 diabetes should be greater than or equal to the totals by age group and sex on PI15 (Type 2 diabetes) for those aged 45-49
09	03,16	The "*Total clients*" value for a particular age group and sex needs to be the same as the

Indicator	Linked To	Link Type
		corresponding "*Total clients*" values on PI03 and PI16
	05, 07, 15, 23	The totals by age group and sex should be greater than or equal to the totals by age group and sex for PI05, PI07, PI15 (Type 2 diabetes for ages 15-24, 25-34, 35-44), PI18 (Type 2 diabetes) and PI23 (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 "*Total clients*" value should be greater than or equal to the totals on PI12 by age group and sex
	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 those aged 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
	15	The "*Total clients*" values by age group and sex should be greater than or equal to the total by age group and sex for PI15 – COPD (for the corresponding age groups)
	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 PI18 plus the "*Total clients without CVD*" values for PI20
	22	The female "Total clients" in a particular age group should be greater than or equal to the "Total female clients without a hysterectomy" on PI22
10	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 PI09
	11	The totals for PI11 by age group (sum of 15-19 and 20-24, 25-34 and 35+) should be less than or

Indicator	Linked To	Link Type
		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+
11	10	The totals by age group (sum of 15-19 and 20-24, 25-34 and 35+) should be less than or equal to the totals of PI10 for females aged 15-24, 25-34 and sum of 35+
		The "Current smoker, ex-smoker and never smoked" values by age group (sum of 15-19 and 20-24, 25-34 and 35+) should be less than or equal to the "Current smoker, ex-smoker and never smoked" values of PI10 for age groups 15-24, 25-34 and sum of 35+
	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+
12	03, 09, 16	The totals by age group and sex should be less than or equal to the totals by age group and sex on PI03 25 + and the totals by age and sex for the corresponding age groups on PI09 and PI16
13	03	The "*Total clients who gave birth*" for those aged 35 and over for PI13 should be less than or equal to the "*Total clients*" for the sum of females aged 35 – 44 and 45 – 54 for PI03
	09, 16	The totals for those aged <20 and 20-34 and 35 and over should be less than or equal to the totals for females aged sum of 15-24 and 25-34 and the sum of females aged 35-44 and 45-54 for PI09 and PI16
14	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
15	05,07,18,23	The "*Total clients with Type 2 Diabetes*" should always equal the corresponding value on PI05, PI07, PI18 and PI23
	03, 09, 16	The "*Total clients with Type 2 Diabetes*" value should be less than or equal to the "*Total clients*" value for PI03, PI09 and PI16 (for corresponding age groups) The "*Total clients with COPD*" value should be less than or equal to the "*Total clients*" value for

Indicator	Linked To	Link Type
		PI03, PI09 and PI16 (for corresponding age groups)
16	03,09	The "*Total clients*" value for a particular age group and sex needs to be the same as the corresponding "*Total clients*" values on PI03 and PI09
	05, 07,15, 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, PI15, PI18 and PI23
	12	The "*Total clients*" value should be greater than or equal to the totals on PI12 by age group and sex
	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 those aged 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
	15	The "Total clients" value by age group and sex should be greater than or equal to the total by age group and sex for PI15 – COPD (for the corresponding age groups)
	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 **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
17	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, 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 and PI16 (for corresponding age groups)

Indicator	Linked To	Link Type
	03, 09, 16, 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 PI18 plus the "*Total clients without CVD*" values for PI20
	05,07,15,23	The "*Total clients with Type 2 Diabetes*" value should always equal the corresponding value on PI05, PI07, PI15 and PI23
	19-A	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-A
	19-A	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-B	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-B
19-A	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
19-B	18	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
20	03, 09, 16, 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 PI21 by age group and sex

Indicator	Linked To	Link Type
21	20	The totals by age group and sex should be less than or equal to the totals on PI20 by age group and sex
22	03, 09, 16	The totals by age group (20-24, 25-34, 35-44, 45-54, 55-64) should be less than or equal to the totals for female clients in the corresponding age groups on PI03, PI09 and PI16 The sum of the totals for clients aged 65-69 and 70-74 should be less than or equal to the totals for female clients aged 65+ on PI03, PI09 and PI16
23	03, 09, 16	The Type 2 diabetes should be less than or equal to the totals on PI03, PI09 and PI16 by age group and sex (for the corresponding age groups)
	05,07,15,18	The "*Total clients with Type 2 Diabetes*" value should always equal the corresponding value on PI05, PI07, PI15 and PI18
TNATSIRC	03, 04, 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 PI03 (0-14 years) PI04 (60 months to less than 72 months) and PI09 (15 years and over)

nKPI Validation Rules that can't be broken

This section of the user guide looks at the 24 indicators in the Data Portal nKPI form and the different AIHW data validation rules that are applied to each indicator.

This section of the guide covers those rules that **can't be broken**.

The section below will detail the different "*can't be broken*" data validation flags that will be generated when an AIHW data validation rule is breached by a Health Service's data for a particular indicator. In addition, it will also detail what the Health Service user needs to do to address the data validation issue flag and resolve the applicable data breach.

PI01: Birth weight recorded

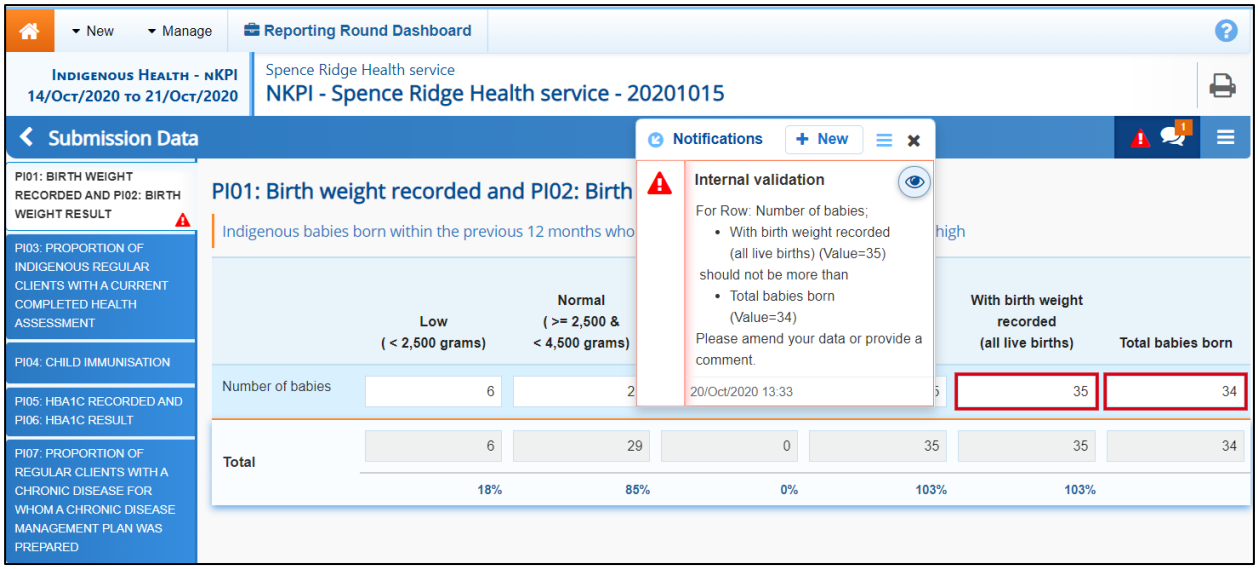
PI01: Birth weight recorded and PI02: Birth weight result

Indigenous babies born within the previous 12 months whose birth weight results were low, normal or high

	Low (< 2,500 grams)	Normal (>= 2,500 & < 4,500 grams)	High (>= 4,500 grams)	With birth weight recorded (excludes multi-births)	With birth weight recorded (all live births)	Total babies born
Number of babies	6	29	0	35	38	55
Total	6	29	0	35	38	55
	11%	53%	0%	64%	69%	

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

Issue 1 – Numerator is larger than the denominator

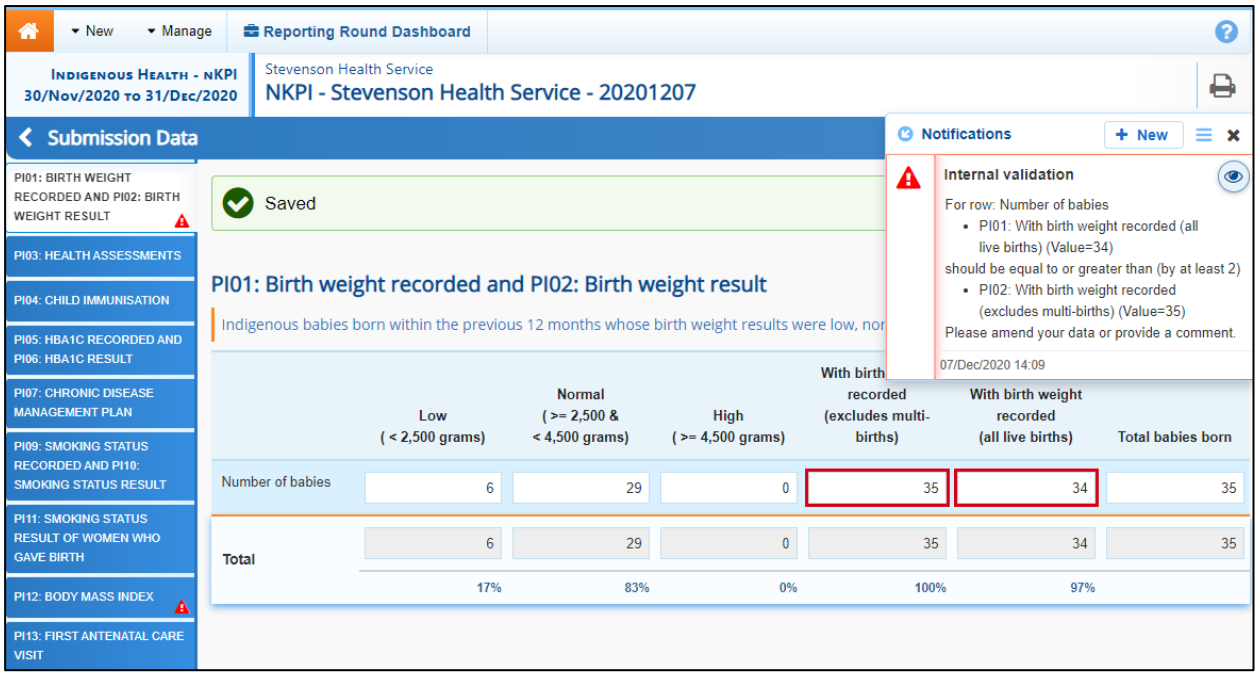


AIHW rule: The numerator should be less than or equal to the denominator

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

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

Issue 2 – Number of babies with birth weight recorded (all live births v excluding multi-births)



AIHW rule: The numerator for PI01 should be equal to or greater than the denominator for PI02

Issue: The "*With birth weight recorded (excludes multi-births)"* value is higher than the "*With birth weight recorded (all live births)*" value

Action required if values need amending: Amend the values so the "*With birth weight recorded (all live births*)" value is equal to or greater than the "*With birth weight recorded (excludes multi-births)*" value

The "*With birth weight recorded (excludes multi-births)*" cell is part of **PI02: Birth weight result**

PI02: Birth weight result

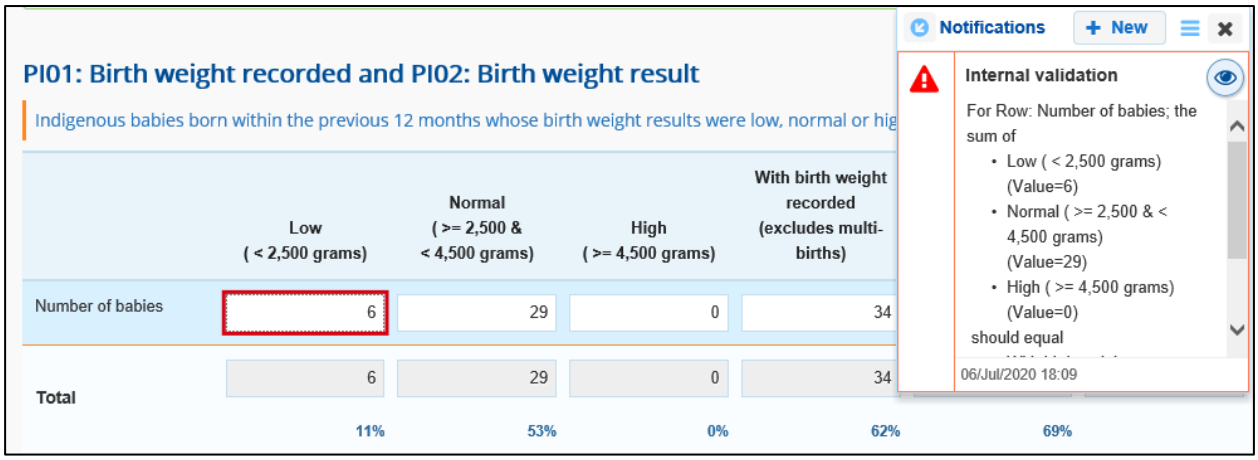
PI01: Birth weight recorded and PI02: Birth weight result

Indigenous babies born within the previous 12 months whose birth weight results were low, normal or high

	Low (< 2,500 grams)	Normal (>= 2,500 & < 4,500 grams)	High (>= 4,500 grams)	With birth weight recorded (excludes multi-births)	With birth weight recorded (all live births)	Total babies born
Number of babies	6	29	0	35	38	55
Total	6	29	0	35	38	55
	11%	53%	0%	64%	69%	

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

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

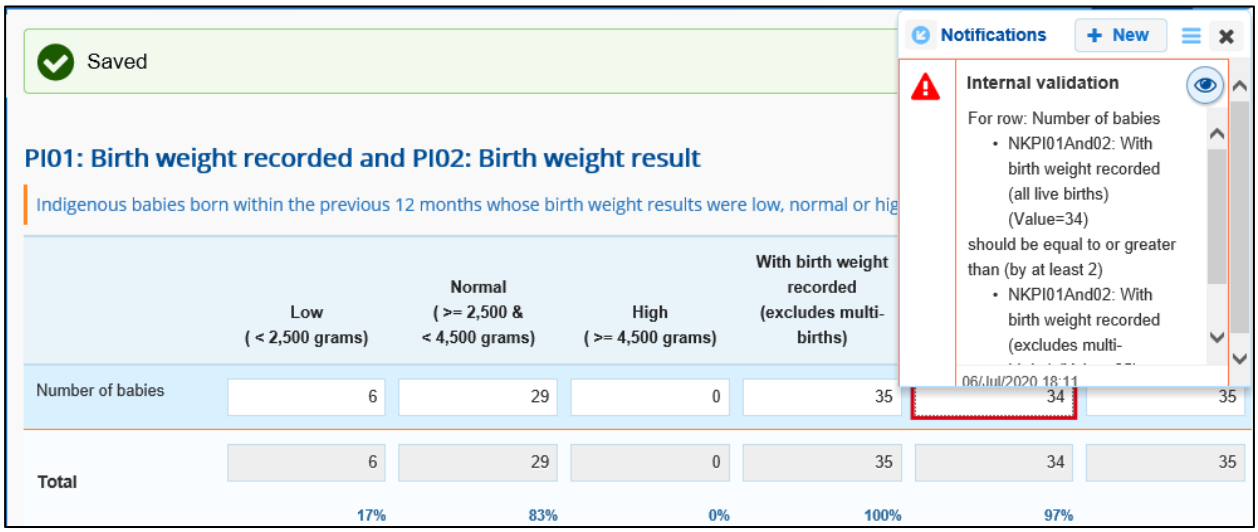


AIHW rule: The sum of the numerator components (low/normal/high birthweight) should be equal to the denominator

Issue: The "*With birth weight recorded (excludes multi-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 (excludes multi-births)*" value is equal to the sum of the "*Low*, *Normal* and *High*" values

Issue 2 – Number of babies with birth weight recorded (all live births v excluding multi-births)



AIHW rule: The denominator for PI02 should either be equal to the numerator for PI01 or less than it by at least 2

Issue: The "*With birth weight recorded (excludes multi-births)"* value is higher than the "*With birth weight recorded (all live births)*" value

Action required if values need amending: Amend the values so the "*With birth weight recorded (all live births*)" value is equal to the "*With birth weight recorded (excludes multi-births)*" value or greater than it by at least 2

The "*With birth weight recorded (all live births)*" cell is part of **PI01: Birth weight recorded**

Issue 3 – The three denominator components (low/normal/high birth weight) are not the same

AIHW rule: The three denominators for PI02 (low/normal/high) should all be the same

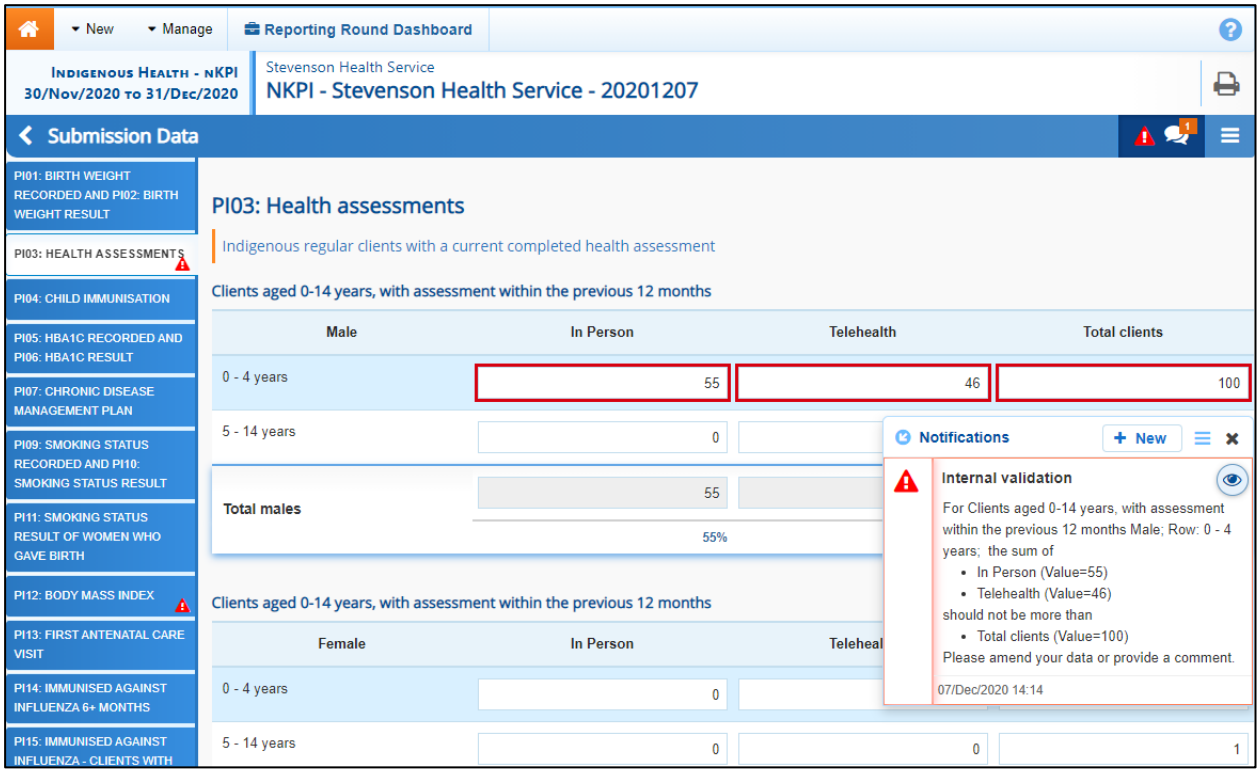
Issue: The three denominators for PI02 (low/normal/high) are not the same. Please note that you can only see one value for each denominator in the form – the second value for each denominator is in the background and has been transferred from the CIS

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

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

PI03: Health assessments (aged 0 – 14)

Issue 1 - Numerator larger than the denominator



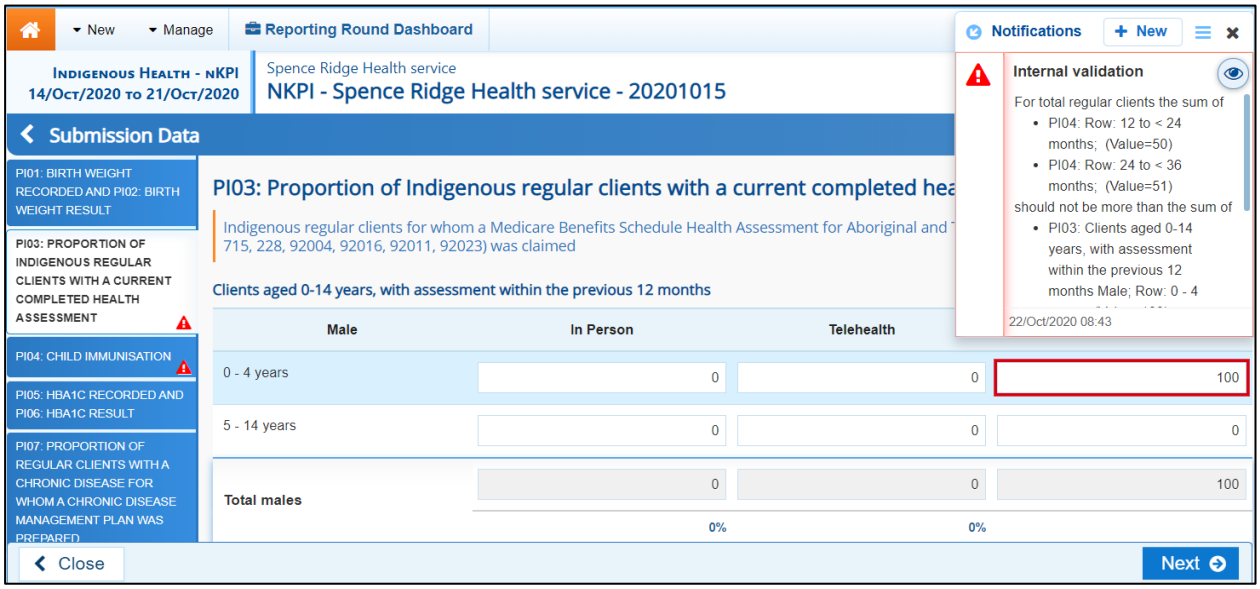
AIHW rule: The numerator should be less than or equal to the denominator

Issue: The combined "*In Person*" and "*Telehealth*" values are more than the "*Total clients*" value

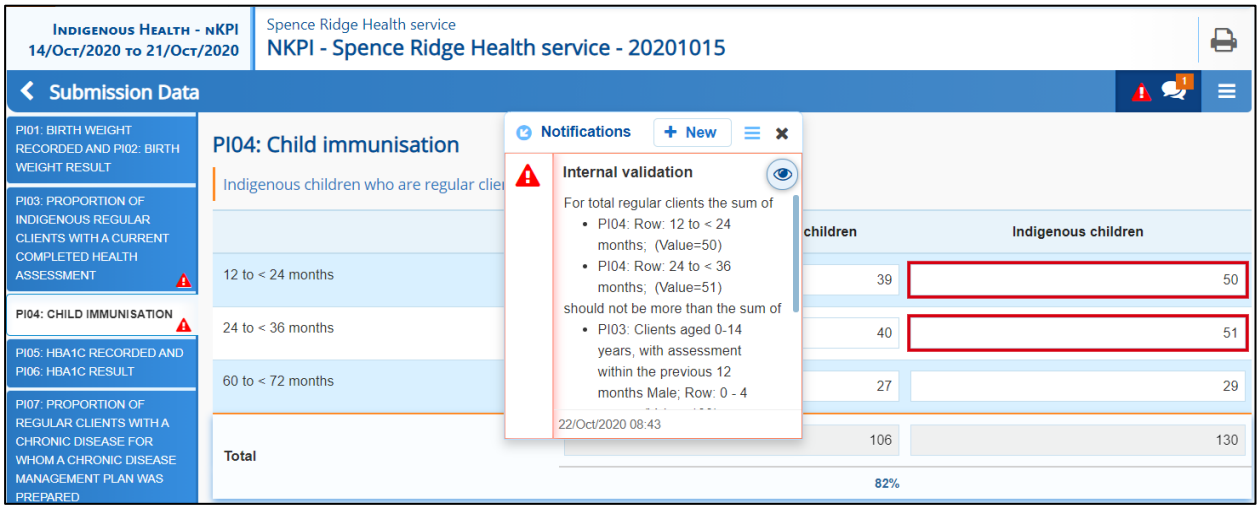
Action required if values need amending: Amend the values so the "*Total clients*" value is greater than or equal to the combined "*In Person*" and "*Telehealth*" values

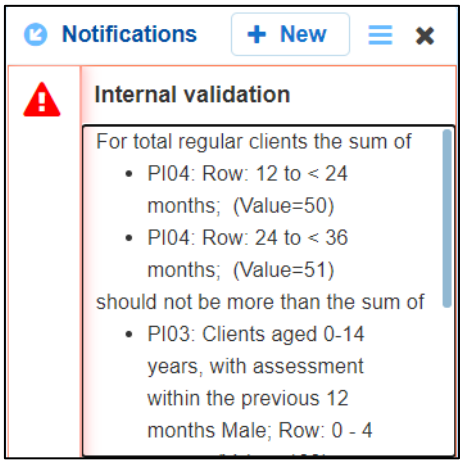
Issue 2 – Denominators not matching across linked indicators

PI03



PI04





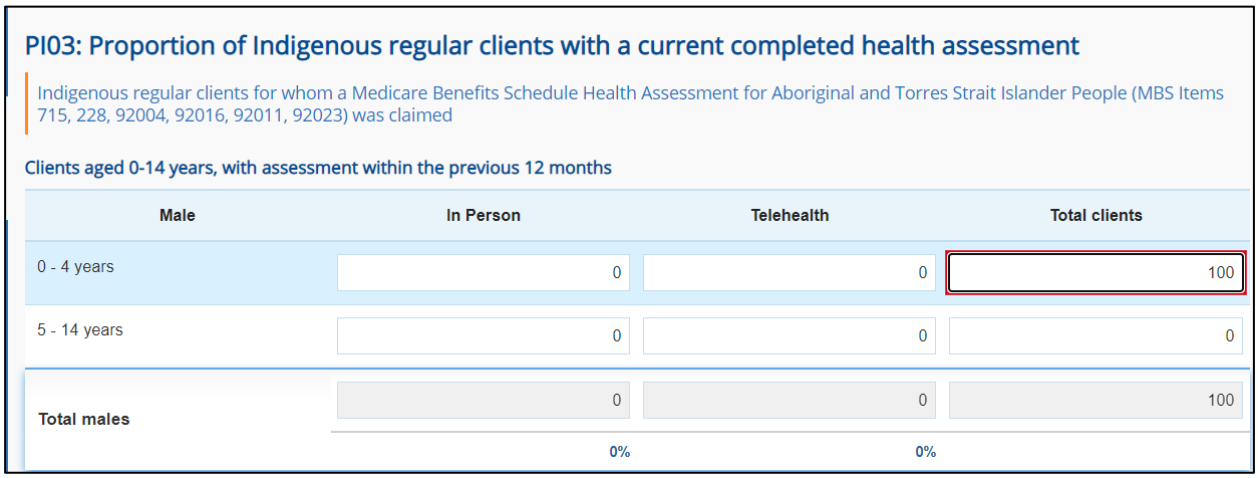
AIHW rule: The denominator for PI03 should be greater than or equal to the sum of the denominators for those aged 12 < 24 months and 24 < 36 months for PI04

Issue: The applicable "*Total clients*" value on **PI03** (top) is less than the sum of the applicable "*12 to < 24 months*" and "*24 to < 36 months*" values on **PI04** (bottom)

Action required if values need amending: Amend the values so the "*Total clients*" value on **PI03** is greater than or equal to the sum of the "*12 to < 24 months*" and "*24 to < 36 months*" values on **PI04**

Issue 3 – Denominator less than denominator on PI14

PI03



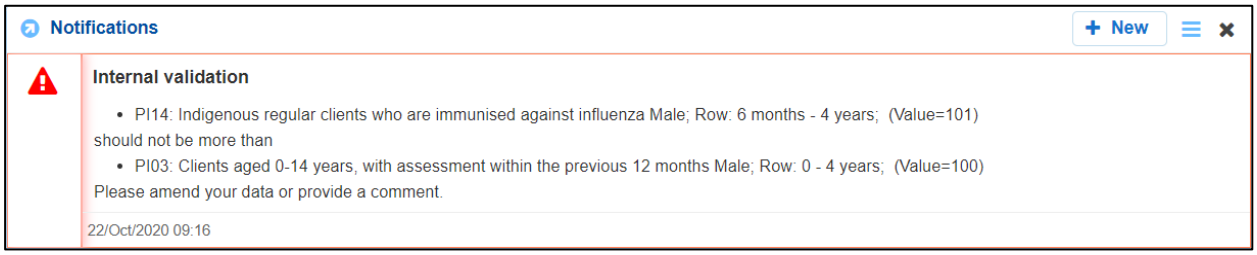
PI14

PI14: Proportion of regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients who are immunised against influenza

Male	Influenza immunised clients	Total clients
6 months - 4 years	0	101



Notifications

+ New

Internal validation

- PI14: Indigenous regular clients who are immunised against influenza Male; Row: 6 months - 4 years; (Value=101)

should not be more than

- PI03: Clients aged 0-14 years, with assessment within the previous 12 months Male; Row: 0 - 4 years; (Value=100)

Please amend your data or provide a comment.

22/Oct/2020 09:16

AIHW rule: The denominator for PI03 by age group 0 – 4 years and sex should be greater than or equal to the denominators for PI14 y age group 6 months – 4 years and sex

Issue: The applicable "*Total clients*" value on **PI03** is less than the "*Total clients*" value on **PI14**

Action required if values need amending: Amend the values so the "*Total clients*" value on **PI03** is greater than or equal to the "*Total clients*" value on **PI14**

PI03: Health assessments (aged 25 and over)

Issue 1 - Numerator is larger than the denominator

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

Male	In Person	Telehealth	Total clients
15 - 24 years	0	0	152
25 - 34 years	27	78	104

Notifications + New

Internal validation

For Clients aged 15 years and over, with assessment within the previous 24 months Male; Row: 25 - 34 years; the sum of

- In Person (Value=27)
- Telehealth (Value=78)

should not be more than

- Total clients (Value=104)

Please amend your data or provide a comment.

22/Oct/2020 10:21

AIHW rule: The numerators by age group and sex should be less than or equal to the denominators by age group and sex

Issue: The applicable combined "*In Person*" and "Telehealth" age group values are greater than the corresponding "*Total clients*" value

Action required if values need amending: Amend the values so the applicable "*Total clients*" value is greater than or equal to the corresponding "*In Person*" and "*Telehealth*" values

Issue 2 - Denominators not matching those on PI09 and PI16

PI03

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

Male	In Person	Telehealth	Total clients
15 - 24 years	0	0	152
25 - 34 years	27	0	103

PI09

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

PI16

PI16: Alcohol consumption recorded

Indigenous regular clients whose alcohol consumption status has been recorded

Alcohol consumption recorded within the previous 24 months

Male	Alcohol consumption recorded	Total clients
15 - 24 years	82	152
25 - 34 years	60	104

Notifications + New

Internal validation

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

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

Please amend your data or provide a comment.

22/Oct/2020 10:46

AIHW rule: The denominators for PI03 by age group and sex should be the same as the denominators for PI09 and PI16 by age group and sex

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

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

Issue 3 – Denominators on PI03, PI09 and PI16 are less than the denominators for PI05, PI07, PI15, PI18 and PI23

PI03

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

Male	In Person	Telehealth	Total clients
15 - 24 years	0	0	152
25 - 34 years	27	0	104

PI23

25 - 34 years	0	1	105

The above *PI23* screenshot is an example. The same applies to PI05, PI07, PI15 and PI18.

Notifications + New

Internal validation

For male regular clients aged 25 - 34 years

- ALL the numbers with Type 2 Diabetes in PI05 6 Months (Value=1), PI05 12 Months (Value=1), PI07 (Value=1), PI08 (Value=1), PI15 (Value=1), PI18 (Value=1), PI23 (Value=105)

should not be more than

- ALL the numbers of total regular clients in PI03 (Value=104), PI09 (Value=104), PI14 (Value=104), PI16 (Value=104).

Please amend your data or provide a comment.

22/Oct/2020 10:50

AIHW rule: The denominators by age group and sex for PI03, PI09 and PI16 should be greater than or equal to the denominators by age group and sex for PI05, PI07, PI15 (Type 2 diabetes for ages 15-24, 25-34, 35-44), PI18 (Type 2 diabetes) and PI23 (for the corresponding age groups)
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**, **PI15**, **PI18** and **PI23**
Action required if values need amending: Amend the applicable values so that the "*Total clients*" values on **PI03**, **PI09** and **PI16** are greater than or equal to the corresponding values on **PI05**, **PI07**, **PI15**, **PI18** and **PI23**

Issue 4 – Denominators on PI03, PI09 and PI16 are less than the total on PI14

PI03

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

Male	In Person	Telehealth	Total clients
15 - 24 years	0	0	152
25 - 34 years	27	0	103

PI14

PI14: Proportion of regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients who are immunised against influenza

Male	Influenza immunised clients	Total clients
6 months - 4 years	0	0
5 - 14 years	0	0
15 - 24 years	0	152
25 - 34 years	0	104

Notifications + New

Internal validation

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

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

Please amend your data or provide a comment.

22/Oct/2020 10:56

AIHW rule: The denominators for PI03, PI09 and PI16 should be greater than or equal to the corresponding denominator for PI14
Issue: The "*Male 25 to 34 years*" value on PI14 is larger than the corresponding "Total clients" values on PI03, PI09 and PI16
Action required if values need amending: Amend the applicable values so that the "*Total clients*" value on **PI14** is less than or equal to the "*Total clients*" values on **PI03, PI09** and **PI16**.

Issue 5 – Denominators are less than the denominators for PI15

PI03

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

Male	In Person	Telehealth	Total clients
15 - 24 years	0	0	152
25 - 34 years	27	0	104
35 - 44 years	37	0	76
45 - 54 years	39	0	79

PI15

Clients with chronic obstructive pulmonary disease (COPD)

Male	Influenza immunised clients	Total clients with COPD
15 - 24 years	0	0
25 - 34 years	0	0
35 - 44 years	0	1
45 - 49 years	0	80

Notifications + New

Internal validation

The following value(s)

- PI15: Clients with chronic obstructive pulmonary disease (COPD) Male; Row: 45 - 49 years; (Value=80)

should not be more than

- PI03:(Value=79),PI09:(Value=79),PI14:(Value=79),PI16:(Value=79)

Please amend your data or provide a comment.

22/Oct/2020 11:07

AIHW rule: The denominators by age group and sex for PI03, PI09 and PI16 should be greater than or equal to the denominators by age group and sex for PI15 (COPD)
Issue: The "*Male - Total clients 45 – 49 years*" value on PI15 is larger than the "*Male 45 - 54 years*" total values on PI03, PI09 and PI16
Action required if values need amending: Amend the applicable values so the "*Male Total clients 45-54 years*" on **PI03**, **PI09** and **PI16** are greater than or equal to the value in the "*Male – 45–49 years Total clients with COPD*" cell on **PI15**

Issue 6 – Total female Indigenous clients for PI03, PI09 and PI16 are less than the total female Indigenous clients for PI22 by age group and sex

PI03

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

Female	In Person	Telehealth	Total clients
15 - 24 years	0	0	174
25 - 34 years	42	0	148

PI22

25 - 34 years	11	149

Notifications + New

Internal validation

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

- PI22: Clients with a cervical screening within the previous 5 years and on or after 01 December 2017 Age; Row: 25 - 34 years; (Value=149)

should not be more than

- PI03:(Value=148),PI09:(Value=149),PI14:(Value=149),PI16:(Value=149)

Please amend your data or provide a comment.

22/Oct/2020 11:13

AIHW rule:
The denominators for female clients for PI03 (25+), PI09 and PI16 by age group (25-34, 35-44, 45-54, 55-64) should be greater than or equal to the denominators in the corresponding age groups for PI22
Issue: The 25 – 34 years "*Total female clients without a hysterectomy*" value on PI22 is larger than the corresponding "*Total clients*" values on PI03, PI09 and PI16
Action required if values need amending: Amend the values so the 25 – 34 years "Total *female clients without a hysterectomy*" value on PI22 is less than or equal to the corresponding "*Total clients*" values in PI03, PI09 and PI16

Issue 7 – Total Indigenous clients for PI03, PI09 and PI16 are less than the total Indigenous clients for PI12

PI03

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

Male	In Person	Telehealth	Total clients
15 - 24 years	0	0	152
25 - 34 years	27	0	104

PI12

Male	Overweight (BMI >=25 & < 30)	Obese (BMI >= 30)	Total clients with BMI recorded
25 - 34 years	16	11	105

Notifications + New

Internal validation

The following value(s)

- PI12: BMI recorded in the previous 24 months Male; Row: 25 - 34 years; (Value=105)

should not be more than

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

Please amend your data or provide a comment.

22/Oct/2020 11:26

AIHW rule: The denominators by age group and sex for PI03 25+, and the denominators by age group and sex for the corresponding age groups for PI09 and PI16 should be greater than or equal to the denominators by age group and sex for PI12
Issue: The "*Total clients with BMI recorded*" value for Males aged 25 to 34 years on PI12 is larger than the corresponding "*Total clients*" values on PI03, PI09 and PI16
Action required if values need amending: Amend the values so the "*Total clients with BMI recorded*" value for Male clients aged 25 – 34 years on PI12 is less than or equal to the Male 25 – 34 years "*Total clients*" values in PI03, PI09 and PI16

PI03: Health assessments (ages 35 - 44, 45 - 54)

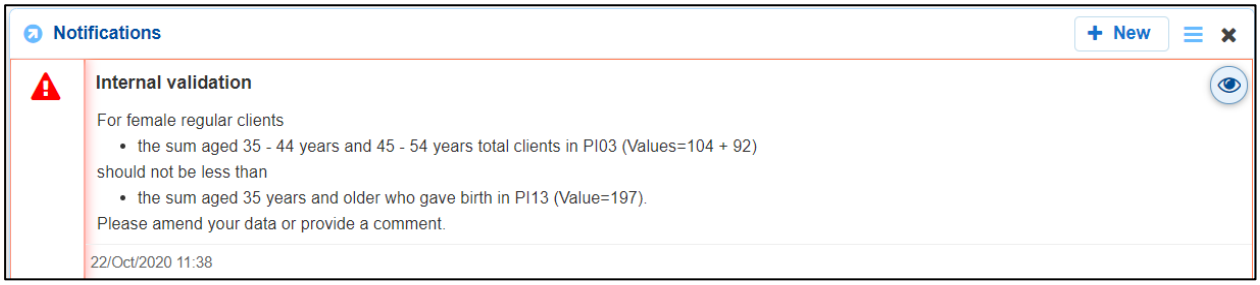
Issue 1 – Total female clients aged 35 – 44 and 45 – 54 in PI03 are less than total female clients aged 35 and over in PI13

PI03

35 - 44 years	38	0	104
45 - 54 years	38	0	92

PI13

35 years and older	3	1	1	0	0	197



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

PI03: Health assessments (aged 35 to 64)

Issue 1 – Total Indigenous clients for PI03, PI09 and PI16 by age group and sex are less than the denominators for PI18 CVD by age group and sex plus the denominators for PI20 by age group and sex, for clients aged 35 - 64

PI03

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

Male	In Person	Telehealth	Total clients
15 - 24 years	0	0	152
25 - 34 years	27	0	104
35 - 44 years	37	0	76
45 - 54 years	39	0	79
55 - 64 years	25	0	40

PI09

35 - 44 years	47	5	9	61	76
45 - 54 years	48	8	6	62	79
55 - 64 years	19	10	5	34	40

PI16

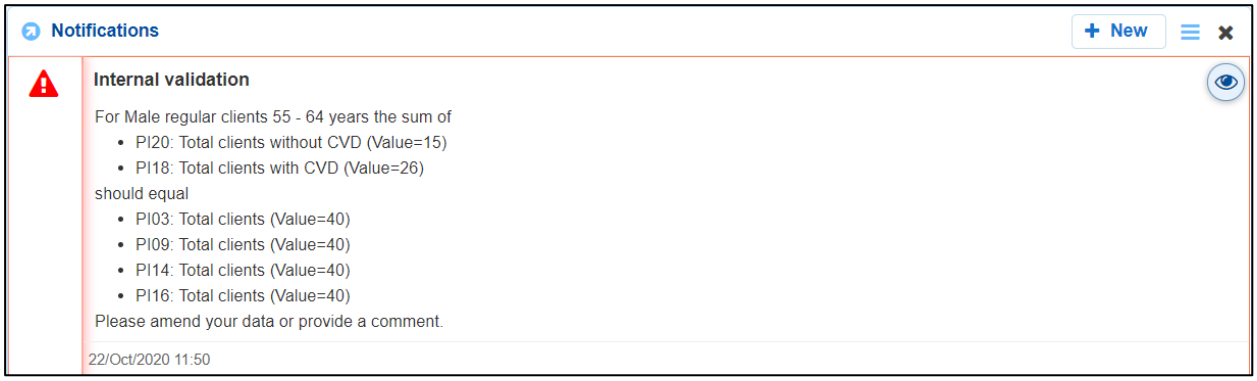
35 - 44 years	58	76
45 - 54 years	61	79
55 - 64 years	33	40

PI18

35 - 44 years	1	20
45 - 54 years	2	25
55 - 64 years	6	26

PI20

35 - 44 years	22	56
45 - 54 years	27	54
55 - 64 years	8	15



AIHW rule: The denominators for PI03, PI09 and PI16 by age group and sex should be equal to the denominators for PI18 CVD by age group and sex plus the denominators for PI20 by age group and sex, for clients aged 35 to 64

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

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

PI03: Health assessments (aged 65 and over)

Issue 1 – Total Indigenous female clients for 65+ PI03, PI09 and PI16 are less than the total Indigenous clients for PI22 aged 65-74

PI03

65 years and older	16	0	31

PI09

65 years and older	8	8	9	25	31

PI16

65 years and older	22	31

PI22

65 - 74 years	0	32

Notifications + New

Internal validation

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

- PI22: Clients with a cervical screening within the previous 5 years and on or after 01 December 2017 Age; Row: 65 - 74 years; (Value=32)

should not be more than

- PI03:(Value=31),PI09:(Value=31),PI14:(Value=31),PI16:(Value=31)

Please amend your data or provide a comment.

22/Oct/2020 11:57

AIHW rule: The denominators for female clients aged 65+ for PI03, PI09 and PI16 should be greater than or equal to the denominator for PI22 clients aged 65-74
Issue: The denominators for female clients aged 65+ for PI03, PI09 and PI16 are less than the denominator for PI22 clients aged 65-74
Action required if values need amending: Amend the applicable "*Total clients"* values so the "Total clients" values for female clients aged 65+ on PI03, PI09 and PI16 are greater than or equal to the "Total clients" values for PI22 female clients aged 65-74

Issue 2 – 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 65 and over

PI03

65 years and older	5	0	12

PI09

65 years and older	5	3	1	9	12

PI16

65 years and older	9	12

PI18

65 years and older	2	7

PI20

65 - 74 years	1	6

Notifications + New

Internal validation

For Male regular clients 65 years and older the sum of
- PI18: Total clients with CVD (Value=7)
- PI20: Total clients without CVD (Value=6)

should not be more than
- PI03: Total clients (Value=12)

Please amend your data or provide a comment.

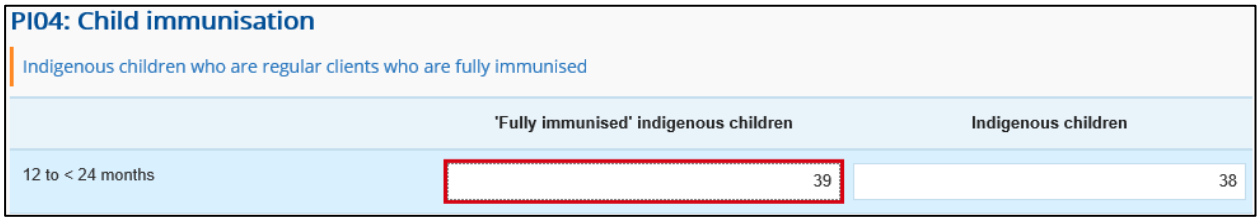
22/Oct/2020 12:11

AIHW rule: The denominators for PI03, PI09 and PI16 by age group and sex should be greater than or equal to 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
Issue: The "*Total clients*" values for Male clients aged 65 and older for PI03, PI09 and PI16 are less than the "*Total clients with CVD*" value for Male clients aged 65 and older on PI18 plus the "*Total clients without CVD*" value for Male clients aged 65 – 74 on PI20
Action required if values need amending: Amend the applicable values so the "*Total clients*" values for Male clients aged 65 and older in PI03, PI09 and PI16 are greater than or equal to the corresponding "*Total clients with CVD*" value for PI18 CVD plus the "*Total clients without CVD*" value for PI20

PI04: Child immunisation

Issue 1 – Numerator is larger than the denominator

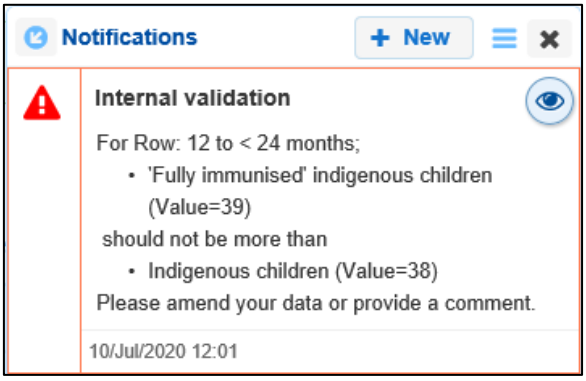
PI04



PI04: Child immunisation

Indigenous children who are regular clients who are fully immunised

	'Fully immunised' indigenous children	Indigenous children
12 to < 24 months	39	38



AIHW rule: The numerators by age groups should be less than or equal to the denominators by age group

Issue: The value in the "Fully immunised" Indigenous children" cell for babies aged 12 to < 24 months is greater than the value in the corresponding "*Indigenous children*" cell

Action required if values need amending: Amend the values so the 12 to < 24 months "*Indigenous children*" value is greater than or equal to the corresponding value in "'*Fully immunised*' *Indigenous children*"

Issue 2 - Denominators larger than the denominators on PI03

PI04

PI04: Child immunisation

Indigenous children who are regular clients who are fully immunised

	'Fully immunised' indigenous children	Indigenous children
12 to < 24 months	39	50
24 to < 36 months	40	51

PI03

PI03: Proportion of Indigenous regular clients with a current completed health assessment

Indigenous regular clients for whom a Medicare Benefits Schedule Health Assessment for Aboriginal and Torres Strait Islander People (MBS Items 715, 228, 92004, 92016, 92011, 92023) was claimed

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

Notifications + New

Internal validation

For total regular clients the sum of
- PI04: Row: 12 to < 24 months; (Value=50)
- PI04: Row: 24 to < 36 months; (Value=51)

should not be more than the sum of
- PI03: Clients aged 0-14 years, with assessment within the previous 12 months Male; Row: 0 - 4 years; (Value=100)
- PI03: Clients aged 0-14 years, with assessment within the previous 12 months Female; Row: 0 - 4 years; (Value=0)

Please amend your data or provide a comment.

22/Oct/2020 12:19

AIHW rule: The sum of the denominator for those aged 12 to <24 months and 24 to <36 months for PI04 should be less than or equal to the denominator for PI03

Issue: The combined 12 to < 24 months and 24 to < 36 months "*Indigenous children*" values on **PI04** (top) are more than the 0 – 4 years "*Total clients*" value on **PI03** (bottom)

Action required if values need amending: Amend the values so the 0 – 4 years "*Total clients*" value on **PI03** is greater than or equal to the sum of the 12 to < 24 months and 24 to < 36 months "*Indigenous children*" values on **PI04**

PI05: HbA1c recorded

PI05: HbA1c recorded and PI06: HbA1c result

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

HbA1c result recorded within the previous 6 months

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

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

Issue 1 – Numerator is larger than the denominator

PI05: HbA1c recorded and PI06: HbA1c result

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

HbA1c result recorded within the previous 6 months

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

Internal validation

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

- With HbA1c test (Value=4)

should not be more than

- Total clients with Type 2 Diabetes (Value=3)

Please amend your data or provide a comment.

10/Jul/2020 12:14

AIHW rule: The numerators by age group and sex should be less than or equal to the denominators by age group and sex

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

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

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

PI05 (previous 6 months)

PI05: HbA1c recorded and PI06: HbA1c result

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

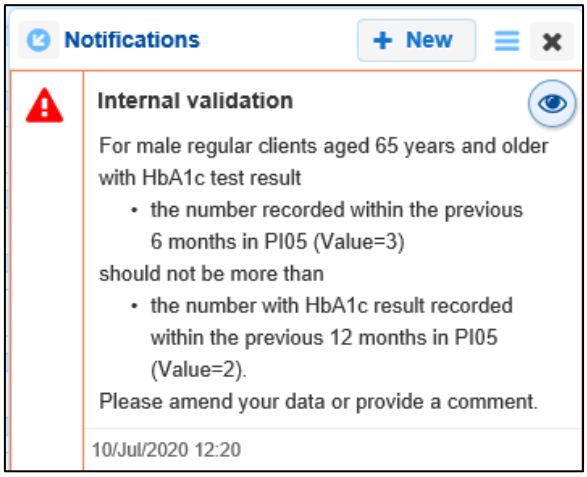
HbA1c result recorded within the previous 6 months

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

PI05 (previous 12 months)

HbA1c result recorded within the previous 12 months

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



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

Issue: The "*With HbA1c test*" value for 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 clients aged 65 years and older for the previous 6 months is less than or equal to the corresponding "*With HbA1c test*" value for the previous 12 months

Issue 3 – Denominators (6 and 12 months) are different to the denominators for PI07, PI15, PI18 and PI23

PI05 (previous 6 months)

PI05: HbA1c recorded and PI06: HbA1c result

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

HbA1c result recorded within the previous 6 months

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

PI07

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

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

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

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

PI15

PI15: Immunised against influenza - clients with chronic disease

Indigenous regular clients with a selected chronic disease who are immunised against influenza

Clients with Type 2 Diabetes

Male	Influenza immunised clients	Total clients with Type 2 Diabetes
15 - 24 years	0	1

PI18

PI18: Kidney function test recorded

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

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

Male	eGFR only	ACR only	Both an eGFR and an ACR	Total clients with Type 2 Diabetes
15 - 24 years	0	1	0	1

PI23

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

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

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

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

Notifications + New

Internal validation

The number of male regular clients aged 15 - 24 years with Type 2 Diabetes should be the same in PI05 6 Months (Value=2), PI05 12 Months (Value=1), PI07 (Value=1), PI08 (Value=1), PI15 (Value=1), PI18 (Value=1), PI23 (Value=1). Please amend your data or provide a comment.

10/Jul/2020 12:25

AIHW rule: The denominators by age group and sex for PI05 (6 and 12 months) should be the same as the denominators for PI07, PI15 (Type 2 diabetes for ages 15-24, 25-34, 35-44), PI18 (Type 2 diabetes) and PI23

Issue: The Male 15 – 24 years "*Total clients with Type 2 Diabetes*" value on PI05 is greater than the corresponding values on PI07, PI15, 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, PI15, PI18 and PI23

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

Issue: The numerators for PI05 by age group and sex aren't the same as the denominators for PI06 by age group and sex

Action required if values need amending: Amend the applicable values as required to ensure the numerators for PI05 by age group and sex are the same as the denominators for PI06 by age group and sex. Note that you can only see one value 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 validation flag

This issue will only arise as part of direct load, as the data transferred from your CIS has two separate values for both the denominator and the numerator. Sometimes these two values can be different and this is what generates the issue

Issue 5 – Denominators are larger than the denominators for PI03, PI09 and PI16

PI05

25 - 34 years	1	0	0	0	1	105

The screenshot above shows PI05 but the same cell would also be highlighted on PI07, PI15, PI18 and PI23

PI03

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

Male	In Person	Telehealth	Total clients
15 - 24 years	0	0	152
25 - 34 years	27	0	104

PI09

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

PI16

PI16: Alcohol consumption recorded

Indigenous regular clients whose alcohol consumption status has been recorded

Alcohol consumption recorded within the previous 24 months

Male	Alcohol consumption recorded	Total clients
15 - 24 years	82	152
25 - 34 years	60	104

Internal validation

For male regular clients aged 25 - 34 years

- ALL the numbers with Type 2 Diabetes in PI05 6 Months (Value=105), PI05 12 Months (Value=1), PI07 (Value=1), PI08 (Value=1), PI15 (Value=1), PI18 (Value=1), PI23 (Value=1)

should not be more than

- ALL the numbers of total regular clients in PI03 (Value=104), PI09 (Value=104), PI14 (Value=104), PI16 (Value=104).

Please amend your data or provide a comment.

22/Oct/2020 13:12

AIHW rule: The denominators by age group and sex for PI05, PI07, PI15 (Type 2 diabetes for ages 15-24, 25-34, 35-44), PI18 (Type 2 diabetes) and PI23 should be less than or equal to the denominators by age group and sex for PI03, PI09 and PI16 (for the corresponding age groups)
Issue: The Male 25 – 34 years "*Total clients*" values on **PI03**, **PI09** and **PI16** are less than the Male 25 – 34 years "*Total clients with Type 2 Diabetes"* values on **PI05**
Action required if values need amending: Amend the applicable values so the Male 25 – 34 years "*Total clients*" values on **PI03**, **PI09** and **PI16** are greater than or equal to the corresponding Male 25 – 34 years "*Total clients with Type 2 Diabetes"* values on **PI05**

Issue 6 – Denominators for 45 – 54 age group are less than the denominators for PI15

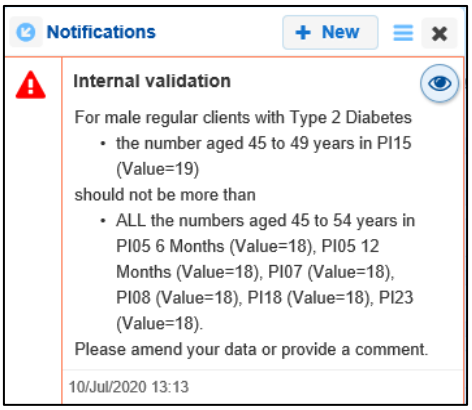
PI05

45 - 54 years	1	1	2	1	5	18

The screenshot above shows PI05 but the same cell would also be highlighted on PI07, PI18 and PI23

PI15

45 - 49 years	1	19



AIHW rule: The denominators by age group and sex for those aged 45-54 for PI05, PI07, PI18 (Type 2 diabetes) and PI23 should be greater than or equal to the denominators by age group and sex for PI15 (Type 2 diabetes) for those aged 45-49

Issue: The 45 – 49 years "*Total clients with Type 2 Diabetes*" value on **PI15** is larger than the corresponding values on **PI05**, **PI07**, **PI18** and **PI23**

Action required if values need amending: Amend the values so the 45 – 49 years "*Total clients with Type 2 Diabetes*" value on **PI15** is less than or equal to the 45 – 54 years "*Total clients with Type 2 Diabetes*" values on **PI05**, **PI07**, **PI18** and **PI23**

PI06: HbA1c result

PI05: HbA1c recorded and PI06: HbA1c result

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

HbA1c result recorded within the previous 6 months

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

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

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

PI06 (previous 6 months)

PI05: HbA1c recorded and PI06: HbA1c result

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

HbA1c result recorded within the previous 6 months

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

PI06 (previous 12 months)

HbA1c result recorded within the previous 12 months

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

Internal validation

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

- HbA1c >= 10% (86 mmol/mol) (Value=1)

should not be more than

- With HbA1c test (Value=0)

Please amend your data or provide a comment.

10/Jul/2020 13:27

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)

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

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

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

PI06

35 - 44 years	1	0	3	4	7

Internal validation

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

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

10/Jul/2020 13:34

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

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 are different to the PI05 numerators

AIHW rule: The denominators for PI06 by age group and sex should be the same as the numerators for PI05 by age group and sex

Issue: In the direct load data, the "*With HbA1c test*" value (PI06) is not the same as the "*With HbA1c test*" value (PI05). Only one of those values is shown in the Data Portal

Action required if values need amending: If the value in the "With *HbA1c test*" cell is incorrect, please amend it. If the value is correct, please delete it, enter it in again and then save. This will ensure both the numerator of PI05 and the denominator of PI06 are the value shown in the HDP

This issue will only arise as part of direct load, as the data transferred from your CIS has two separate values for both the denominator and the numerator. Sometimes these two values can be different and this is what generates the issue

Issue 4 – Denominators for each HbA1c result should be the same within each age group and sex

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

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

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

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

Issue 5 – Denominator (previous 6 months) is larger than the denominator (previous 12 months)

PI06 (previous 6 months)

25 - 34 years	1	0	0	0	12	1

PI06 (previous 12 months)

25 - 34 years	1	0	0	0	7	1

Internal validation

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

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

should not be more than

- the number with HbA1c result recorded within the previous 12 months in PI05 (Value=1).

Please amend your data or provide a comment.

10/Jul/2020 13:57

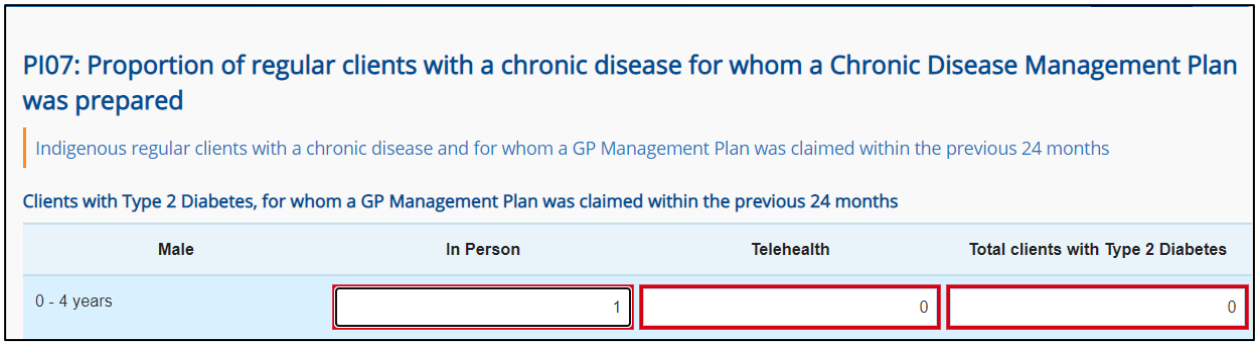
AIHW rule: The denominator components for each HbA1c result by age group and sex for 6 months should be less than or equal to the denominator components for each HbA1c result by age group and sex for 12 months

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

PI07: Chronic disease management plan

Issue 1 – Numerators are larger than the denominators

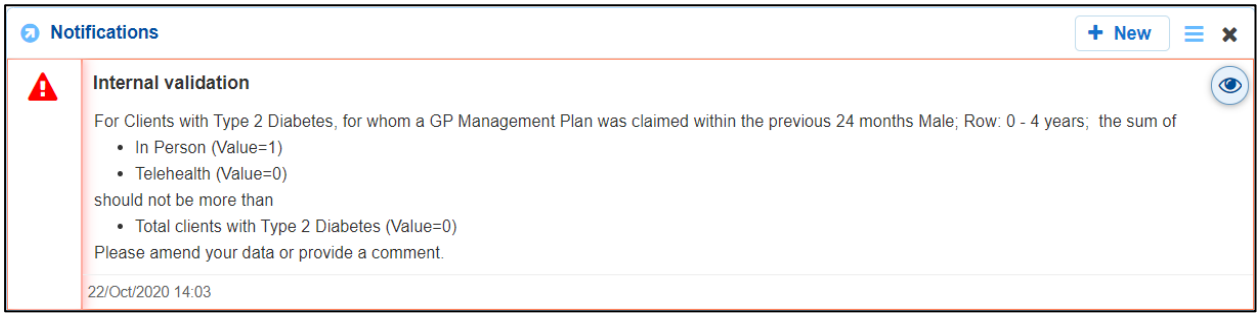


PI07: Proportion of regular clients with a chronic disease for whom a Chronic Disease Management Plan was prepared

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

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

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



Notifications

+ New

Internal validation

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

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

should not be more than

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

Please amend your data or provide a comment.

22/Oct/2020 14:03

AIHW rule: The numerators by age group and sex should be less than or equal to the denominators by age group and sex

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

Issue 2 – Denominators are different to the denominators for PI05, PI15, PI18 and PI23

PI07

15 - 24 years	0	0	2

PI05

15 - 24 years	0	0	0	1	1	1

The above is a screenshot of PI05 – the corresponding cell would also be highlighted on PI15, PI18 and PI23 if has been selected

Notifications + New

Internal validation

The number of male regular clients aged 15 - 24 years with Type 2 Diabetes should be the same in PI05 6 Months (Value=1), PI05 12 Months (Value=1), PI07 (Value=2), PI08 (Value=1), PI15 (Value=1), PI18 (Value=1), PI23 (Value=1).

Please amend your data or provide a comment.

22/Oct/2020 14:09

AIHW rule: The denominators by age group and sex for PI07 should be the same as for PI05 6 months and 12 months, PI15 (Type 2 diabetes for ages 15-24, 25-34, 35-44), PI18 (Type 2 diabetes) and PI23 (for the corresponding age groups)

Issue: The "*Total clients with Type 2 Diabetes*" value for Male 15 – 24 years on PI07 is larger than the "*Total clients with Type 2 Diabetes*" value for Male 15 – 24 years on PI05, PI15, PI18 and PI23

Action required if values need amending: Amend the values to ensure the "*Total clients with Type 2 Diabetes*" value for Male 15 – 24 years on PI07 is the same as the "*Total clients with Type 2 Diabetes*" value for Male 15 – 24 years on PI05, PI15, PI18 and PI23

Issue 3 – Denominators are smaller than the same denominators for PI15

PI07

45 - 54 years	9	0	18

The above is a screenshot of PI07. The same cell would be highlighted for PI05, PI18, and PI23 if has been selected.

PI15

45 - 49 years	1	19

Notifications + New

Internal validation

For male regular clients with Type 2 Diabetes

- the number aged 45 to 49 years in PI15 (Value=19)

should not be more than

- ALL the numbers aged 45 to 54 years in PI05 6 Months (Value=18), PI05 12 Months (Value=18), PI07 (Value=18), PI08 (Value=18), PI18 (Value=18), PI23 (Value=18).

Please amend your data or provide a comment.

22/Oct/2020 14:17

AIHW rule: The denominators by age group and sex for those aged 45-54 for PI07, PI05 6 months and 12 months, PI18 (Type 2 diabetes) and PI23 should be greater than or equal to the denominators by age group and sex for PI15 (Type 2 diabetes) for those aged 45-49

Issue: The 45 – 49 years "*Total clients with Type 2 Diabetes*" value on **PI15** is larger than the corresponding values on **PI05**, **PI07**, **PI18** and **PI23**

Action required if values need amending: Amend the values so the Male 45 – 49 years "*Total clients with Type 2 Diabetes*" value on **PI15** is less than or equal to the corresponding "*Total clients with Type 2 Diabetes*" values on **PI05**, **PI07**, **PI18** and **PI23**

Issue 4 – Denominators are larger than the same denominators for PI03, PI09 and PI16

PI07

25 - 34 years	0	0	105

The above is a screenshot of PI07. The same cell would be highlighted for PI05, PI15, PI18, and PI23 if has been selected.

PI03

25 - 34 years	27	0	104

The above is a screenshot of PI03. The same cell would be highlighted for PI09 and PI16 if has been selected.

Internal validation

For male regular clients aged 25 - 34 years

- ALL the numbers with Type 2 Diabetes in PI05 6 Months (Value=1), PI05 12 Months (Value=1), PI07 (Value=105), PI08 (Value=1), PI15 (Value=1), PI18 (Value=1), PI23 (Value=1)

should not be more than

- ALL the numbers of total regular clients in PI03 (Value=104), PI09 (Value=104), PI14 (Value=104), PI16 (Value=104).

Please amend your data or provide a comment.

22/Oct/2020 14:22

AIHW rule: The denominators by age group and sex for PI07, PI05 (previous 6 months and previous 12 months) PI15 (Type 2 diabetes for ages 15-24, 25-34, 35-44), PI18 (Type 2 diabetes) and PI23 should be less than or equal to the denominators by age group and sex for PI03, PI09 and PI16 (for the corresponding age groups)

Issue: The Male 25 – 34 years "*Total clients with Type 2 Diabetes*" value on PI07 is larger than the corresponding "*Total clients*" value on PI03

Action required if values need amending: Amend the values so the Male 25 – 34 years "*Total clients with Type 2 Diabetes*" value on PI07 is less than or equal to the "corresponding "*Total clients*" values on PI03

PI09: Smoking status recorded

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

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

Issue 1 – Numerators are larger than the denominator

PI09: Smoking status recorded and PI10: Smoking status result

Indigenous regular clients with a smoking status result

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

Internal validation

For Male; Row: 15 - 24 years;

- Total clients with smoking status recorded (Value=153)

should not be more than

- Total clients (Value=152)

Please amend your data or provide a comment.

10/Jul/2020 15:14

AIHW rule: The numerators by age group and sex should be less than or equal to the denominators by age group and sex

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

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

Issue 2 – Denominator is not the same as the denominator for PI03 PI14 and PI16

PI09

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

PI03

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

Male	In Person	Telehealth	Total clients
15 - 24 years	0	0	152
25 - 34 years	27	0	103

PI16

25 - 34 years	60	103

Notifications + New

Internal validation

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

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

Please amend your data or provide a comment.

22/Oct/2020 14:29

AIHW rule: The denominators for PI09 by age group and sex should be the same as the denominators for PI03, PI14 and PI16 by age group and sex (for the corresponding age groups)

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

Action required if values need amending: Amend the values so the Male 25 – 34 years "*Total clients*" value on PI09 is the same as the corresponding values for PI03, PI14 and PI16

Issue 3 – Female client total on PI09, PI03 and PI16 is less than the female client total on PI22

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	148 ×

The above is a screenshot of PI09. The same cell would be highlighted for PI03 and PI16 if has been selected.

PI22

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

Female Indigenous regular clients who have had a cervical screening (HPV test)

Clients with a cervical screening within the previous 5 years and on or after 01 December 2017

Age	Clients with a cervical screening	Total female clients without a hysterectomy
25 - 34 years	13	149

Notifications + New

Internal validation

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

- PI22: Clients with a cervical screening within the previous 5 years and on or after 01 December 2017 Age; Row: 25 - 34 years; (Value=149)

should not be more than

- PI03:(Value=149),PI09:(Value=148),PI14:(Value=149),PI16:(Value=149)

Please amend your data or provide a comment.

22/Oct/2020 14:40

AIHW rule: The denominators for female clients for PI09, PI03 (25+) and PI16 by age group (25 – 34, 35 – 44, 45 – 54, 55 – 64) should be greater than or equal to the denominators in the corresponding age groups for PI22

Issue: The Female 25 – 34 years "*Total clients"* value for PI09, PI03 (25+) and PI16 by age group (25 – 34, 35 – 44, 45 – 54, 55 – 64) are less than the corresponding value for PI22

Action required if values need amending: Amend the applicable values so the Female 25 – 34 years "*Total clients*" value on PI09 is greater than or equal to the Female 25 – 34 years "Total female clients without a hysterectomy" value for PI22

Issue 4 – 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

Issue: The numerators for PI09 by age group and sex are not the same as the denominators for PI10 by age group and sex

Action required if values need amending: If the value in the "*Total clients with smoking status recorded*" cell is incorrect, please amend it. If the value is correct, please delete it, enter it in again and then save. This will ensure both the numerator of PI09 and the denominator of PI10 are the value shown in the HDP

This issue will only arise as part of direct load, as the data transferred from your CIS has two separate values for both the denominator and the numerator. Sometimes these two values can be different and this is what generates the issue

Issue 5 – Denominators for PI09, PI03 and PI16 are less than the denominators for PI05, PI07, PI15, PI18 and PI23

PI05

25 - 34 years	1	0	0	0	1	105

The above is a screenshot of PI05. The same cell would be highlighted for PI07, PI15, PI18 and PI23 if has been selected.

PI03

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

Male	In Person	Telehealth	Total clients
15 - 24 years	0	0	152
25 - 34 years	27	0	104

PI09

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

PI16

PI16: Alcohol consumption recorded

Zero Cells

Indigenous regular clients whose alcohol consumption status has been recorded

Alcohol consumption recorded within the previous 24 months

Male	Alcohol consumption recorded	Total clients
15 - 24 years	82	152
25 - 34 years	60	104

Notifications + New

Internal validation

For male regular clients aged 25 - 34 years

- ALL the numbers with Type 2 Diabetes in PI05 6 Months (Value=105), PI05 12 Months (Value=1), PI07 (Value=1), PI08 (Value=1), PI15 (Value=1), PI18 (Value=1), PI23 (Value=1)

should not be more than

- ALL the numbers of total regular clients in PI03 (Value=104), PI09 (Value=104), PI14 (Value=104), PI16 (Value=104).

Please amend your data or provide a comment.

22/Oct/2020 14:46

AIHW rule: The denominators by age group and sex for PI09, PI03 and PI16 should be greater than or equal to the denominators by age group and sex for PI05, PI07, PI15 (Type 2 diabetes for ages 15-24, 25-34, 35-44), PI18 (Type 2 diabetes) and PI23 (for the corresponding age groups)

Issue: The Male 25 – 34 years "*Total clients*" values on **PI03**, **PI09** and **PI16** are less than at least one of the Male 25 – 34 years "*Total clients*" values on **PI05, PI07**, **PI15**, **PI18** and **PI23**
Action required if values need amending: Amend the applicable values so the Male 25 – 34 years "*Total clients*" value on **PI09** is greater than or equal to the corresponding values on **PI05**, **PI07**, **PI15**, **PI18** and **PI23**

Issue 6 – Denominator totals for PI09, PI16, PI03 and PI04 are larger than the IRC with age and sex recorded

PI09

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

TNATSIRC

TNATSIRC: Indigenous regular clients

	Indigenous clients without a sex or age recorded	Indigenous clients with a sex recorded but not an age	Indigenous clients with an age recorded but not a sex	Indigenous clients with both a sex and age recorded
Number of Indigenous regular clients	0	2	0	462
Total	0	2	0	462
	0%	0%	0%	

Internal validation

For regular clients

- the sum of all regular clients that are included in PI03 (0-4 years), PI04 (60 months to less than 72 months) and PI09 (15 years and over) (Values=208 + 29 + 152 + 104 + 76 + 79 + 40 + 12 + 174 + 149 + 104 + 92 + 41 + 31)

should not be more than

- the number of Indigenous clients with both a sex and age recorded in TNATSIRC (Value=462).

Please amend your data or provide a comment.

13/Jul/2020 08:07

AIHW rule: The total sum of the denominator for PI09/PI16 (15+), PI03 (0-4) and PI04 (60-72 months) should be less than or equal to the number for 'Indigenous clients with both a sex and age recorded' at TNATSIRC Indigenous regular clients

This field should not be blank and should be greater than 0, unless only data for PI01 and PI02 is provided. This figure includes all Indigenous regular clients on the PIRS with both age and sex known. If the field is blank, it would most likely be due to a manual submission

Issue: The total sum of the "*Total clients*" values for PI09/PI16 (15+), PI03 (0-4) and PI04 (60-72 months) are more than the number for '*Indigenous clients with both a sex and age recorded'* at TNATSIRC Indigenous regular clients

Action required if values need amending: Amend the applicable values so the total sum of the "*Total clients*" values for PI09/PI16 (15+), PI03 (0-4) and PI04 (60-72 months) is less than or

equal to the number for 'Indigenous clients with both a sex and age recorded' at TNATSIRC Indigenous regular clients

Issue 7 – Denominator are less than the corresponding denominators in PI14

PI09

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

PI03

45 - 54 years	39	0	79
55 - 64 years	25	0	40
65 years and older	5	0	12

PI16

45 - 54 years	61	79
55 - 64 years	33	40
65 years and older	9	12

PI14

45 - 54 years	0	79
55 - 64 years	0	40
65 years and older	0	13

Notifications + New

Internal validation

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

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

Please amend your data or provide a comment.

22/Oct/2020 14:57

AIHW rule: The denominator for clients aged 45 and over in PI03, PI09 and PI16 should be greater than or equal to the corresponding denominators for PI14
Issue: The "*Male - Total clients aged 50 and over*" values on PI14 are larger than the combined Male 45 and over "*Total clients*" values on PI03, PI09 and PI16
Action required if values need amending: Amend the applicable values so that the "*Male - Total clients aged 45 and over*" values on **PI14** are less than or equal to the combined Males aged 45 and over "Total clients" values on **PI03, PI09** and **PI16**. In this example it seems likely that the **PI14** values are incorrect. If this were the case, add up the three 45 and over denominators on **PI09** and ensure the values in the "*Male - Total clients aged 45 and over*" cells on **PI14** are less than or equal to this

Issue 8 – Denominators are less than the denominator for PI15 COPD

PI09

35 - 44 years	47	5	9	61	18 ×

PI16

35 - 44 years	58	18 ×

PI15

35 - 44 years	4	19 ×

Internal validation

For male regular clients aged 35 - 44 years

- ALL the numbers with Type 2 Diabetes in PI05 6 Months (Value=19), PI05 12 Months (Value=19), PI07 (Value=19), PI08 (Value=19), PI15 (Value=19), PI18 (Value=19), PI23 (Value=19)

should not be more than

- ALL the numbers of total regular clients in PI03 (Value=76), PI09 (Value=18), PI16 (Value=18).

Please amend your data or provide a comment.

13/Jul/2020 08:23

AIHW rule: The denominators by age group and sex for PI09 and PI16 should be greater than or equal to the denominator by age group and sex for PI15 – COPD (for the corresponding age groups)

Issue: The Male 35 – 44 years "*Total clients*" values for **PI09** and **PI16** are less than the Male 35 – 44 years "*Total clients*" value for **PI15** (COPD)

Action required if values need amending: Amend the values to ensure the Male 35 – 44 years "*Total clients*" values for **PI09** and **PI16** are greater than or equal to the Male 35 – 44 years "*Total clients*" value for **PI15** (COPD)

Issue 9 – Denominators for age and sex for PI09 and PI16 and PI03 25+ are less than the denominators by age group and sex for PI12

PI09

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

PI16

25 - 34 years	60	104

PI03 (25+)

25 - 34 years	27	0	104

PI12

PI12: Body Mass Index

Indigenous regular clients who are classified as overweight or obese

BMI recorded in the previous 24 months

Male	Overweight (BMI >=25 & < 30)	Obese (BMI >= 30)	Total clients with BMI recorded
25 - 34 years	26	11	105

Internal validation

For male regular clients aged 25 - 34 years

- who have had their BMI recorded within the previous 24 months in PI12 (Value=47)

should not be more than

- ALL the numbers of total regular clients in PI03 (Value=46), PI09 (Value=46), PI16 (Value=46).

Please amend your data or provide a comment.

13/Jul/2020 08:37

AIHW rule: The denominators for age and sex for the corresponding age groups for PI09 and PI16 and the denominators by age group and sex for PI03 25+ should be greater than or equal to the denominators by age group and sex for PI12

Issue: The Male 25 – 34 years "Total clients" values for PI09 and PI16 and the Male 25 – 34 years "Total clients" values for PI03 25+ are less than the Male 25 – 34 years "Total clients with BMI recorded" value for PI12

Action required if values need amending: Amend the applicable value to ensure the Male 25 – 34 years "*Total clients*" values for PI09 and PI16 and the Male 25 – 34 years "*Total clients*" value for PI03 25+ are greater than or equal to the Male 25 – 34 years "*Total clients with BMI recorded*" value for PI12

PI09 (aged 35 to 64): Smoking status recorded

Issue 1 – The denominators for PI03, PI09 and PI16 are not equal to the denominators for PI18 CVD plus the denominator for PI20 for clients aged 35 to 64

PI03

55 - 64 years	25	0	40

PI09

55 - 64 years	19	10	5	34	40 ×

PI16

55 - 64 years	33	40 ×

PI18 CVD

55 - 64 years	6	26 ×

PI20

55 - 64 years	8	15 ×

Notifications + New

Internal validation

For Male regular clients 55 - 64 years the sum of
- PI20: Total clients without CVD (Value=15)
- PI18: Total clients with CVD (Value=26)

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

Please amend your data or provide a comment.

22/Oct/2020 15:27

AIHW rule: The denominators for PI09, PI03 and PI16 by age group and sex, should be equal to the denominators for PI18 CVD by age group and sex plus the denominators for PI20 by age group and sex, for clients aged 35 to 64

Issue: The Male 55 – 64 years "*Total clients*" values for PI09, PI03 and PI16 aren't equal to the Male 55 – 64 years "*Total clients*" value for PI18 CVD plus the Male 55 – 64 years "*Total clients*" value for PI20

Action required if values need amending: Amend the applicable value to ensure the Male 55 – 64 years "*Total clients*" values for PI09, PI03 and PI16 are equal to the Male 55 – 64 years "*Total clients*" value for PI18 CVD plus the Male 55 – 64 years "*Total clients*" value for PI20

PI09 (aged 65 and over): Smoking status recorded

Issue 1 – The denominators for PI03, PI09 and PI16 are less than the denominators for PI18 CVD plus the denominator for PI20 for clients aged 65 and over

PI03

65 years and older	5	0	12

PI09

65 years and older	5	3	1	9	12 ×

PI16

65 years and older	9	12 ×

PI18 CVD

65 years and older	2	7 ×

PI20

65 - 74 years	1	6 ×

Notifications + New

Internal validation

For Male regular clients 65 years and older the sum of
- PI18: Total clients with CVD (Value=7)
- PI20: Total clients without CVD (Value=6)

should not be more than
- PI09: Total clients (Value=12)

Please amend your data or provide a comment.

22/Oct/2020 15:35

AIHW rule: The denominators for PI03, PI09 and PI16 by age group and sex, should be greater than or equal to the denominators for PI18 CVD by age group and sex plus the denominators by PI20 by age group and sex, for clients aged 65 and over

Issue: The Male 65 years and older "*Total clients*" values for PI03, PI09 and PI16, are less than the Male 65 years and older "*Total clients*" values for PI18 CVD plus the Male 65 - 74 years "*Total clients*" values for PI20

Action required if values need amending: Amend the applicable values to ensure the Male 65 years and older "*Total clients*" values for PI03, PI09 and PI16 are greater than or equal to the Male 65 years and older "*Total clients*" values for PI18 CVD plus the Male 65 – 74 years "*Total clients*" values for PI20

Issue 2 – The denominators for female clients aged 65+ for PI03, PI09 and PI16 are less than the denominators for PI22 clients aged 65 – 69 and 70 - 74

PI03

65 years and older	16	0	31

PI09

65 years and older	8	8	9	25	31 ×

PI16

65 years and older	22	31 ×

PI22

65 - 74 years	0	32

Notifications + New

Internal validation

The number of female regular clients who have not had a hysterectomy in
- PI22: Clients with a cervical screening within the previous 5 years and on or after 01 December 2017 Age; Row: 65 - 74 years; (Value=32)

should not be more than
- PI03:(Value=31),PI09:(Value=31),PI14:(Value=31),PI16:(Value=31)

Please amend your data or provide a comment.

22/Oct/2020 15:44

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

Issue: The Female 65 years and older "Total clients" value for PI09, PI03 and PI16 are less than the "Total clients" value for female clients aged 65 – 74 in PI22

Action required if values need amending: If applicable, amend the required values so the Female 65 years and older "Total clients" value for PI09, PI03 and PI16 are greater than or equal to the Female clients aged 65 – 74 "Total clients" value for PI22

PI09 (aged 15 - 24): Smoking status recorded

Issue 1 – The sum of denominators for females aged 15-24 and 25-34 for PI09 and PI16 is less than the sum of denominators for clients aged < 20 and 20-34 for PI13

PI09

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

PI16

Alcohol consumption recorded within the previous 24 months

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

PI13

PI13: First antenatal care visit

Indigenous regular clients who had their first antenatal care visit within specified periods

	Less than 13/40 weeks	13/40 weeks to less than 20/40 weeks	At or after 20/40 weeks	No result recorded	Did not attend an antenatal care visit	Total clients who gave birth
less than 20 years	4	0	1	1	2	308
20-34 years	13	4	5	3	2	27

Internal validation

For female regular clients
- the sum aged less than 20 years and 20-34 years who gave birth in PI13 (Values=308 + 27)

should not be more than
- the sum aged 15 - 24 years and 25 - 34 years total clients in PI16 (Values=174 + 149).

Please amend your data or provide a comment.

22/Oct/2019 11:19

Internal validation

For female regular clients
- the sum aged less than 20 years and 20-34 years who gave birth in PI13 (Values=308 + 27)

should not be more than
- the sum aged 15 - 24 years and 25 - 34 years total clients in PI09 (Values=174 + 149).

Please amend your data or provide a comment.

22/Oct/2019 11:19

AIHW rule: The sum of denominators for female aged 15-24 and 25-34 for PI09 and PI16 should be greater than or equal to the sum of denominators for clients aged < 20 and 20-34 for PI13

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

Action required if values need amending: Amend the required values so the sum of the female aged 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

PI09 (ages 35-44, 45-54): Smoking status recorded

Issue 1 – 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

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

PI13

PI13: First antenatal care visit

Indigenous regular clients who had their first antenatal care visit within specified periods

	Less than 13/40 weeks	13/40 weeks to less than 20/40 weeks	At or after 20/40 weeks	No result recorded	Did not attend an antenatal care visit	Total clients who gave birth
less than 20 years	4	0	1	1	2	8
20-34 years	13	4	5	3	2	27
35 years and older	3	1	1	0	0	197
Total	20	5	7	4	4	232
	9%	2%	3%	2%	2%	

Internal validation

For female regular clients
- the sum aged 35 years and older who gave birth in PI13 (Value=197)

should not be more than
- the sum aged 35 - 44 years and 45 - 54 years total clients in PI16 (Values=104 + 92).

Please amend your data or provide a comment.

22/Oct/2019 11:55

Internal validation

For female regular clients
- the sum aged 35 years and older who gave birth in PI13 (Value=197)

should not be more than
- the sum aged 35 - 44 years and 45 - 54 years total clients in PI09 (Values=104 + 92).

Please amend your data or provide a comment.

22/Oct/2019 11:55

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

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

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

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.

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

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	107	152

Internal validation

For Male; Row: 15 - 24 years; the sum of

- Current smoker (Value=52)
- Ex-smoker (Value=6)
- Never smoked (Value=50)

should equal

- Total clients with smoking status recorded (Value=107)

Please amend your data or provide a comment.

22/Oct/2019 12:10

AIHW rule: The sum of the numerator components by age group and sex should be equal to the denominators by age group and sex

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

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

Issue 2 – Denominators for PI10 are different to the numerators for PI09

AIHW rule: The denominators for PI10 by age group and sex should be the same as the numerators for PI09 by age group and sex

Issue: The denominators for PI10 by age group and sex aren't the same as the numerators for PI09 by age group and sex

Action required if values need amending: Amend the applicable values as required to ensure the denominators for PI10 by age group and sex are the same as the numerators for PI09 by 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 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 two separate values for both the denominator and the numerator. Sometimes these two values can be different and this is what generates the issue

Issue 3 – Denominators for each status don't match within groups

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

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 4 – Denominators for females in PI10 are less than the denominators on PI11

PI10

35 - 44 years	54	9	15	78	104
45 - 54 years	50	9	12	71	92
55 - 64 years	19	6	5	30	41
65 years and older	8	8	9	25	31

PI11

35 years and older	3	1	1	292

Internal validation

For female regular clients aged 35 years and older with smoking status recorded

- the number who gave birth in PI11 (Value=292)

should not be more than

- the sum in PI09 (Values=78 + 71 + 30 + 25).

Please amend your data or provide a comment.

04/Nov/2019 08:39

AIHW rule: The denominators for PI11 by age group (sum of 15-19 and 20-24, 25-34 and 35+) should be less than or equal to the denominators for PI10 for females aged 15-24, 25-34 and sum of 35+

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

Issue 5 – Numerators are less than the numerators on PI11

PI10

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

PI11

PI11: Smoking status result of women who gave birth

Indigenous regular clients, who gave birth within the previous 12 months, with a smoking status result

	Current smoker	Ex-smoker	Never smoked	Total clients who gave birth with smoking status recorded
15 - 19 years	6	1	0	7
20 - 24 years	8	1	0	9
25 - 34 years	11	17	3	17
35 years and older	3	1	1	5
Total	28	20	4	38
	74%	53%	11%	

Internal validation

For female regular clients aged 25 - 34 years with "Ex-smoker" result
- the number in PI11 (Value=17)

should not be more than
- the number of similar regular clients in PI10 (Value=16).

Please amend your data or provide a comment.

22/Oct/2019 12:58

AIHW rule: The numerator components of PI11 by age group (sum of 15-19 and 20-24, 25-34 and 35+) should be less than or equal to the numerator components of PI10 for age groups 15-24, 25-34 and sum of 35+ (for example, the number of female ex-smokers aged 25 – 34 for PI11 should be less than or equal to the number of female ex-smokers aged 25 – 34 for PI10)

Issue: The "*Ex-smoker*" value for Females aged 25 – 34 years on PI10 is less than the corresponding "*Ex-smoker"* value for PI11

Action required if values need amending: Amend the applicable value so the "*Ex-smoker*" value for Females aged 25 – 34 years on PI10 is greater than or equal to the corresponding "*Ex-smoker"* value for PI11

PI11: Smoking status result of women who gave birth

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

PI11: Smoking status result of women who gave birth

Indigenous regular clients, who gave birth within the previous 12 months, with a smoking status result

	Current smoker	Ex-smoker	Never smoked	Total clients who gave birth with smoking status recorded
15 - 19 years	6	1	0	8

Internal validation

For Row: 15 - 19 years; the sum of

- Current smoker (Value=6)
- Ex-smoker (Value=1)
- Never smoked (Value=0)

should equal

- Total clients who gave birth with smoking status recorded (Value=8)

Please amend your data or provide a comment.

22/Oct/2019 13:04

AIHW rule: The sum of the numerator components by age group should be equal to the denominator by age group

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

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

Issue 2 – Denominator is larger than the denominator for PI13

PI11

	Current smoker	Ex-smoker	Never smoked	Total clients who gave birth with smoking status recorded
15 - 19 years	6	1	0	7
20 - 24 years	8	1	0	9
25 - 34 years	11	3	3	17

PI13

20-34 years	13	4	5	3	2	24

Internal validation

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

- the sum with smoking status recorded in PI11 (Values=9 + 17)

should not be more than

- the number in PI13 (Value=24).

Please amend your data or provide a comment.

22/Oct/2019 13:08

AIHW rule: The denominator of PI11 by age group (15-19, sum of 20-24 and 25-34, 35+) should be less than or equal to the denominators for PI13 for age groups under 20, 20-34, 35+

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*" values 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*" values on PI13

Issue 3 – Denominators for females in PI11 are larger than the denominators for PI10

PI10

35 - 44 years	54	9	15	78	104
45 - 54 years	50	9	12	71	92
55 - 64 years	19	6	5	30	41
65 years and older	8	8	9	25	31

PI11

35 years and older	3	1	1	292

Internal validation

For female regular clients aged 35 years and older with smoking status recorded

- the number who gave birth in PI11 (Value=292)

should not be more than

- the sum in PI09 (Values=78 + 71 + 30 + 25).

Please amend your data or provide a comment.

04/Nov/2019 08:39

AIHW rule: The denominators for PI11 by age group (sum of 15-19 and 20-24, 25-34 and 35+) should be less than or equal to the denominators for PI10 for females aged 15-24, 25-34 and sum of 35+

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

This is the same issue as *Issue 4* of PI10

Issue 4 – Numerators in PI11 are larger than the numerators on PI10

PI10

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

PI11

PI11: Smoking status result of women who gave birth

Indigenous regular clients, who gave birth within the previous 12 months, with a smoking status result

	Current smoker	Ex-smoker	Never smoked	Total clients who gave birth with smoking status recorded
15 - 19 years	6	1	0	7
20 - 24 years	8	1	0	9
25 - 34 years	11	17 ×	3	17

Internal validation

For female regular clients aged 25 - 34 years with "Ex-smoker" result
- the number in PI11 (Value=17)

should not be more than
- the number of similar regular clients in PI10 (Value=16).

Please amend your data or provide a comment.

22/Oct/2019 12:58

AIHW rule: The numerator components of PI11 by age group (sum of 15-19 and 20-24, 25-34 and 35+) should be less than or equal to the numerator components of PI10 for age groups 15-24, 25-34 and sum of 35+ (for example, the number of female ex-smokers aged 25 – 34 for PI11, should be less than or equal to the number of female ex-smokers aged 25 – 34 for PI10)

Issue: The "*Ex-smoker*" value for Females aged 25 – 34 years on PI10 is less than the corresponding "*Ex-smoker"* value for PI11

Action required if values need amending: Amend the applicable value so the "*Ex-smoker*" value for Females aged 25 – 34 years on PI10 is greater than or equal to the corresponding "*Ex-smoker"* value for PI11

Issue 5 – Denominators for each status are different

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

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

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

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

PI12: Body Mass Index

Issue 1 – Denominators for BMI categories don't match

AIHW rule: The denominators for each BMI category (overweight and obese) should be the same within each age/sex group

Issue: The denominators for each BMI category (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 (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, overweight and obese) and sometimes these are different

Issue 2 – The denominators for PI12 are greater than the denominators for PI03 25+, PI09 and PI16

PI12

PI12: Body Mass Index

Indigenous regular clients who are classified as overweight or obese

BMI recorded in the previous 24 months

Male	Overweight (BMI >=25 & < 30)	Obese (BMI >= 30)	Total clients with BMI recorded
25 - 34 years	16	11	105

PI03

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

Male	In Person	Telehealth	Total clients
15 - 24 years	0	0	152
25 - 34 years	27	0	104

PI09

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

PI16

Male	Alcohol consumption recorded	Total clients
15 - 24 years	82	152
25 - 34 years	60	104

Internal validation

For male regular clients aged 25 - 34 years

- who have had their BMI recorded within the previous 24 months in PI12 (Value=105)

should not be more than

- ALL the numbers of total regular clients in PI03 (Value=104), PI09 (Value=104), PI16 (Value=104).

Please amend your data or provide a comment.

22/Oct/2019 13:43

AIHW rule: The denominators by age group and sex for PI12 should be less than or equal to the denominators by age group and sex for PI03 25+ and the denominators by age and sex for the corresponding age groups for PI09 and PI16

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

PI13: First antenatal care visit

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

PI13: First antenatal care visit

Indigenous regular clients who had their first antenatal care visit within specified periods

	Less than 13/40 weeks	13/40 weeks to less than 20/40 weeks	At or after 20/40 weeks	No result recorded	Did not attend an antenatal care visit	Total clients who gave birth
less than 20 years	4	0	1	1	3	8

Internal validation

For Row: less than 20 years; the sum of
- Less than 13/40 weeks (Value=4)
- 13/40 weeks to less than 20/40 weeks (Value=0)
- At or after 20/40 weeks (Value=1)
- No result recorded (Value=1)
- Did not attend an antenatal care visit (Value=3)

should equal
- Total clients who gave birth (Value=8)

Please amend your data or provide a comment.

22/Oct/2019 14:15

AIHW rule: The sum of the numerator components by age group should be equal to the denominator by age group

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

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

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

Issue 3 – Denominator for those aged 35 and over for PI13 is greater than the denominators for the sum of females aged 35-44 and 45-54 for PI03

PI13

35 years and older	3	1	1	0	0	197

PI03

35 - 44 years	38	0	104
45 - 54 years	38	0	92

Internal validation

For female regular clients

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

should not be less than

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

Please amend your data or provide a comment.

22/Oct/2019 14:31

AIHW rule: The denominator for those aged 35 and over for PI13 should be less than or equal to the denominators for the sum of females aged 35-44 and 45-54 for PI03

Issue: The "*Total clients who gave birth*" value for those aged 35 and over for PI13 is more than the combined "*Total clients*" values for females aged 35-44 and 45-54 for PI03

Action required if values need amending: Amend the required values to ensure the "*Total clients who gave birth*" value for those aged 35 and over for PI13 is less than or equal to the combined "*Total clients*" values for females aged 35-44 and 45-54 for PI03

Issue 4 – The sum of denominators for those aged < 20 and 20-34 is larger than the sum of denominators for females aged 15-24 and 25-34 for PI16 and PI09

PI13

PI13: First antenatal care visit

Indigenous regular clients who had their first antenatal care visit within specified periods

	Less than 13/40 weeks	13/40 weeks to less than 20/40 weeks	At or after 20/40 weeks	No result recorded	Did not attend an antenatal care visit	Total clients who gave birth
less than 20 years	4	0	1	1	2	8
20-34 years	13	4	5	3	2	316

PI16

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

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

Internal validation

For female regular clients
- the sum aged less than 20 years and 20-34 years who gave birth in PI13 (Values=8 + 316)

should not be more than
- the sum aged 15 - 24 years and 25 - 34 years total clients in PI16 (Values=174 + 149).

Please amend your data or provide a comment.

22/Oct/2019 14:50

Internal validation

For female regular clients
- the sum aged less than 20 years and 20-34 years who gave birth in PI13 (Values=8 + 316)

should not be more than
- the sum aged 15 - 24 years and 25 - 34 years total clients in PI09 (Values=174 + 149).

Please amend your data or provide a comment.

22/Oct/2019 14:50

AIHW rule: The sum of denominators for clients aged < 20 and 20-34 for PI13 should be less than or equal to the sum of denominators for females aged 15-24 and 25-34 for PI16 and PI09

Issue: The sum of the "*Total clients who gave birth values*" for those aged < 20 and 20-34 for PI13 is larger than the sum of "*Total clients*" values for females aged 15-24 and 25-34 for PI16 and PI09

Action required if values need amending: Amend the applicable values to ensure the sum of the "*Total clients who gave birth values*" for those aged < 20 and 20-34 for PI13 is less than or equal to the sum of "*Total clients*" values for females aged 15-24 and 25-34 for PI16 and PI09

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

PI13

35 years and older	3	1	1	0	0	197 ×

PI16

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

PI09

35 - 44 years	54	9	15	78	104 ×
45 - 54 years	50	9	12	71	92

Internal validation

For female regular clients
- the sum aged 35 years and older who gave birth in PI13 (Value=197)

should not be more than
- the sum aged 35 - 44 years and 45 - 54 years total clients in PI16 (Values=104 + 92).

Please amend your data or provide a comment.

22/Oct/2019 15:05

Internal validation

For female regular clients
- the sum aged 35 years and older who gave birth in PI13 (Value=197)

should not be more than
- the sum aged 35 - 44 years and 45 - 54 years total clients in PI09 (Values=104 + 92).

Please amend your data or provide a comment.

22/Oct/2019 15:05

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

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

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

PI14: Immunised against influenza 6+ months

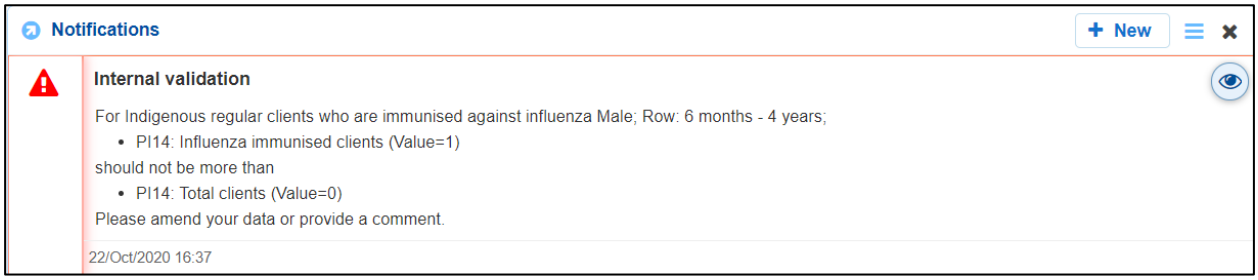
Issue 1 – Numerators are larger than the denominators

PI14: Proportion of regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients who are immunised against influenza

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



Notifications

+ New

Internal validation

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

- PI14: Influenza immunised clients (Value=1)

should not be more than

- PI14: Total clients (Value=0)

Please amend your data or provide a comment.

22/Oct/2020 16:37

AIHW rule: The numerators by sex and age group should be less than or equal to the denominators by sex and age group

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

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

Issue 2 – Denominator is larger than the denominator for PI03, PI09 and PI16

PI14

65 years and older	0	13

PI03

45 - 54 years	39	0	79
55 - 64 years	25	0	40
65 years and older	5	0	12

PI09

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

PI16

45 - 54 years	61	79
55 - 64 years	33	40
65 years and older	9	12

Notifications + New

Internal validation

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

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

Please amend your data or provide a comment.

22/Oct/2020 16:44

AIHW rule: The denominator for PI14 should be less than or equal to the denominator in PI03, PI09 and PI16 for clients aged 45 and over

Issue: The "*Total clients aged 65 years and older*" value for Males on PI14 is larger than the sum of the 45 – 54 years, 55 – 64 years and 65 years and older "*Total clients*" values on PI03, PI09 and PI16

Action required if values need amending: Amend the values to ensure the "*Total clients aged 65 years and older*" value for Males on PI14 is less than or equal to the sum of the 45 – 54 years, 55 – 64 years and 65 years and older "*Total clients*" values on PI03, PI09 and PI16

Issue 3 – Denominators for PI14, 03, 09 and 16 are smaller than the corresponding denominators (CVD) for PI18 and 20

PI14

65 years and older	0	4

PI18

65 years and older	2	7

PI20

65 - 74 years	1	5

Internal validation

For Male regular clients 65 years and older the sum of

- PI18: Total clients with CVD (Value=7)
- PI20: Total clients without CVD (Value=5)

should not be more than

- PI14: Total clients (Value=4)

Please amend your data or provide a comment.

23/Oct/2020 10:41

AIHW rule: Where the age is 65 and over, the total clients for PI14 should be greater than or equal to the total clients (CVD) values in PI18 and 20

Issue: The "*Total clients aged 65 years and older*" value for Males on PI14 is less than the Male 65 years and older "*Total clients with CVD*" value on PI18 and the Male 65 -74 years "*Total clients without CVD*" value on PI20

Action required if values need amending: Amend the values to ensure the "*Total clients aged 65 years and older*" value for Males on PI14 is greater than or equal to the Male 65 years and older "*Total clients with CVD*" value on PI18 and the Male 65 -74 years "*Total clients without CVD*" value on PI20

Issue 4 – Denominators for PI14, 03, 09 and 16 for are smaller than the corresponding denominator in PI12

PI14

25 - 34 years	0	104

PI12

Male	Overweight (BMI >=25 & < 30)	Obese (BMI >= 30)	Total clients with BMI recorded
25 - 34 years	26	11	105

Notifications + New

Internal validation

The following value(s)

- PI12: BMI recorded in the previous 24 months Male; Row: 25 - 34 years; (Value=105)

should not be more than

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

Please amend your data or provide a comment.

23/Oct/2020 10:44

AIHW rule: Against each row on PI03, 09, 14 and 16, where age is > 15, total clients must be greater than or equal to total clients with BMI recorded

Issue: The "*Total clients*" value for Males aged 25 – 34 years on PI14 is less than the Male 25 – 34 years "Total clients with BMI recorded" value on PI12
Action required if values need amending: Amend the values to ensure the "*Total clients*" value for Males aged 25 – 34 years on PI14 is greater than or equal to the Male 25 – 34 years "*Total clients with BMI recorded*" value on PI12

Issue 5 – Denominator on PI14 larger than the corresponding denominator on PI03

PI14

PI14: Proportion of regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients who are immunised against influenza

Male	Influenza immunised clients	Total clients
6 months - 4 years	0	101

PI03

PI03: Proportion of Indigenous regular clients with a current completed health assessment

Indigenous regular clients for whom a Medicare Benefits Schedule Health Assessment for Aboriginal and Torres Strait Islander People (MBS Items 715, 228, 92004, 92016, 92011, 92023) was claimed

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

Male	In Person	Telehealth	Total clients
0 - 4 years	0	0	100

Notifications + New

Internal validation

- PI14: Indigenous regular clients who are immunised against influenza Male; Row: 6 months - 4 years; (Value=101)

should not be more than

- PI03: Clients aged 0-14 years, with assessment within the previous 12 months Male; Row: 0 - 4 years; (Value=100)

Please amend your data or provide a comment.

23/Oct/2020 10:47

AIHW rule: Against each row on PI03, where age is 0 – 4 years, total clients must be greater than or equal to total clients on PI14 where age is 6 months to 4 years

Issue: The "*Total clients*" value for Males aged 6 months – 4 years on PI14 is greater than the Male 0 - 4 years "Total clients" value on PI03

Action required if values need amending: Amend the values to ensure the "*Total clients*" value for Males aged 6 months – 4 years on PI14 is less than the Male 0 - 4 years "Total clients" value on PI03

Issue 6 – The denominator on PI14 for ages 5 - 14 years is not equal to the corresponding denominator on PI03

PI14

PI14: Proportion of regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients who are immunised against influenza

Male	Influenza immunised clients	Total clients
6 months - 4 years	0	0
5 - 14 years	0	1

PI03

PI03: Proportion of Indigenous regular clients with a current completed health assessment

Indigenous regular clients for whom a Medicare Benefits Schedule Health Assessment for Aboriginal and Torres Strait Islander People (MBS Items 715, 228, 92004, 92016, 92011, 92023) was claimed

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

Notifications + New

Internal validation

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

- PI03: Total clients (Value=0)
- PI14: Total clients (Value=1)

Please amend your data or provide a comment.

23/Oct/2020 12:00

AIHW rule: Against each row on PI03, where the age is 5 – 14 years, total clients must be equal to the total clients on PI14 where the age is 5 – 14 years

Issue: The "*Total clients*" value for Males aged 5 - 14 years on PI14 is greater than the Male 5 - 14 years "Total clients" value on PI03

Action required if values need amending: Amend the values to ensure the "*Total clients*" value for Males aged 5 - 14 years on PI14 is the same as the Male 5 - 14 years "Total clients" value on PI03

Issue 7 – Denominator is less than corresponding COPD denominator on PI15

PI14

PI14: Proportion of regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients who are immunised against influenza

Male	Influenza immunised clients	Total clients
6 months - 4 years	0	0
5 - 14 years	0	0
15 - 24 years	0	152

PI15

Clients with chronic obstructive pulmonary disease (COPD)

Male	Influenza immunised clients	Total clients with COPD
15 - 24 years	0	153

Notifications + New

Internal validation

The following value(s)

- PI15: Clients with chronic obstructive pulmonary disease (COPD) Male; Row: 15 - 24 years; (Value=153)

should not be more than

- PI03:(Value=152),PI09:(Value=152),PI14:(Value=152),PI16:(Value=152)

Please amend your data or provide a comment.

23/Oct/2020 09:01

AIHW rule: Against each row on PI03, 09, 14 and 16 where the age group is over 15, total clients must be greater than or equal to total clients on PI15 with COPD

Issue: The "*Total clients*" value for Males aged 15 - 24 years on PI14 is less than the Male 15 - 24 years "Total clients with COPD" value on PI15
Action required if values need amending: Amend the values to ensure the "*Total clients*" value for Males aged 15 - 24 years on PI14 is greater than or equal to the Male 15 - 24 years "Total clients with COPD" value on PI15

Issue 8 – Denominator is less than corresponding denominator on PI22

PI14

Indigenous regular clients who are immunised against influenza

Female	Influenza immunised clients	Total clients
6 months - 4 years	0	0
5 - 14 years	0	1
15 - 24 years	0	174
25 - 34 years	0	149

PI22

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

Female Indigenous regular clients who have had a cervical screening (HPV test)

Clients with a cervical screening within the previous 5 years and on or after 01 December 2017

Age	Clients with a cervical screening	Total female clients without a hysterectomy
25 - 34 years	13	150

Notifications + New

Internal validation

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

- PI22: Clients with a cervical screening within the previous 5 years and on or after 01 December 2017 Age; Row: 25 - 34 years; (Value=150)

should not be more than

- PI03:(Value=149),PI09:(Value=149),PI14:(Value=149),PI16:(Value=149)

Please amend your data or provide a comment.

23/Oct/2020 12:16

AIHW rule: Against each row on PI03, 09, 14 and 16 where the age group is between 25 and 64 and the sex is female, total clients must be greater than or equal to the corresponding total clients value on PI22

Issue: The "*Total clients*" value for Females aged 25 - 34 years on PI14 is less than the Female 25 - 34 years "Total female clients without a hysterectomy" value on PI22
Action required if values need amending: Amend the values to ensure the "*Total clients*" value for Females aged 25 - 34 years on PI14 is greater than or equal to the Female 25 - 34 years "Total female clients without a hysterectomy" value on PI22

Issue 9 – Denominator is less than corresponding denominator on PI05, 07, 15, 18 and 23

PI14

PI14: Proportion of regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients who are immunised against influenza

Male	Influenza immunised clients	Total clients
6 months - 4 years	0	0
5 - 14 years	0	0
15 - 24 years	0	152

PI15

PI15: Immunised against influenza - clients with chronic disease

Indigenous regular clients with a selected chronic disease who are immunised against influenza

Clients with Type 2 Diabetes

Male	Influenza immunised clients	Total clients with Type 2 Diabetes
15 - 24 years	0	153

Notifications + New

Internal validation

For male regular clients aged 15 - 24 years

- ALL the numbers with Type 2 Diabetes in PI05 6 Months (Value=1), PI05 12 Months (Value=1), PI07 (Value=1), PI08 (Value=1), PI15 (Value=153), PI18 (Value=1), PI23 (Value=1)

should not be more than

- ALL the numbers of total regular clients in PI03 (Value=152), PI09 (Value=152), PI14 (Value=152), PI16 (Value=152).

Please amend your data or provide a comment.

23/Oct/2020 12:53

AIHW rule: Against each row on PI03, 09, 14 and 16 where the age group is over 15, total clients must be greater than or equal to the corresponding total clients value for PI05, 07, 15, 18 and 23

Issue: The "*Total clients*" value for Males aged 15 - 24 years on PI14 is less than the Male 15 - 24 years "Total clients with Type 2 Diabetes" value on PI15
Action required if values need amending: Amend the values to ensure the "*Total clients*" value for Males aged 15 - 24 years on PI14 is greater than or equal to the Male 15 - 24 years "Total clients with Type 2 Diabetes" value on PI15

Issue 10 – Denominator isn't equal to the corresponding denominator for PI03 for clients over the age of 15

PI14

PI14: Proportion of regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients aged 6 months and over who are immunised against influenza

Indigenous regular clients who are immunised against influenza

Male	Influenza immunised clients	Total clients
6 months - 4 years	0	0
5 - 14 years	0	0
15 - 24 years	0	153

PI03

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

Male	In Person	Telehealth	Total clients
15 - 24 years	0	0	152

Notifications + New

Internal validation

For Male regular clients aged 15 - 24 years, the following values should be equal

- PI03: Total clients (Value=152)
- PI09: Total clients (Value=152)
- PI14: Total clients (Value=153)
- PI16: Total clients (Value=152)

Please amend your data or provide a comment.

23/Oct/2020 13:14

AIHW rule: Against each row on PI03 where age is greater than 15, total regular clients must be equal to the corresponding total client values on 09, 14 and 16

Issue: The "*Total clients*" value for Males aged 15 - 24 years on PI03 is less than the Male 15 - 24 years "Total clients" value on PI14

Action required if values need amending: Amend the values to ensure the "*Total clients*" value for Males aged 15 - 24 years on PI14 is equal to the Male 15 - 24 years "*Total clients*" value on PI03

PI15: Immunised against influenza – clients with chronic disease (Type 2 diabetes)

Issue 1 – Numerators are larger than the denominators

PI15: Immunised against influenza - clients with chronic disease

Indigenous regular clients with a selected chronic disease who are immunised against influenza

Clients with Type 2 Diabetes

Male	Influenza immunised clients	Total clients with Type 2 Diabetes
15 - 24 years	2	1

Internal validation

For Clients with Type II diabetes Male; Row: 15 - 24 years;

- PI15: Influenza immunised clients (Value=2)

should not be more than

- PI15: Total clients with Type II Diabetes (Value=1)

Please amend your data or provide a comment.

22/Oct/2019 15:20

AIHW rule: The numerators by age group and sex should be less than or equal to the denominators by age group and sex

Issue: The Male 15 – 24 years "*Influenza immunised clients*" value is larger than the corresponding "*Total clients with Type 2 Diabetes*" value

Action required if values need amending: Amend the values so the Male 15 – 24 years "*Influenza immunised clients*" value is less than or equal to the corresponding "*Total clients with Type 2 Diabetes*" value

Issue 2 – Denominators for PI15 are different to the denominators for PI05, PI07, PI18 and PI23

PI15

Male	Influenza immunised clients	Total clients with Type II Diabetes
15 - 24 years	0	1
25 - 34 years	0	2

PI05

25 - 34 years	1	0	0	0	1	1

The above PI05 screenshot is an example. The same cell would also be highlighted on PI07, PI18 and PI23 if is selected.

Internal validation

The number of male regular clients aged 25 - 34 years with type 2 diabetes should be the same in PI05 6 Months (Value=1), PI05 12 Months (Value=1), PI07 (Value=1), PI08 (Value=1), PI15 (Value=2), PI18 (Value=1), PI23 (Value=1).
Please amend your data or provide a comment.

22/Oct/2019 15:23

AIHW rule: The denominators by age group and sex for PI15 (Type 2 diabetes for those aged 15-24, 25-34 and 35-44) should be the same as the denominators by age group and sex for PI05, PI07, PI18 (Type 2 diabetes) and PI23

Issue: The "*Total clients with Type 2 Diabetes*" value for PI15 is larger than the corresponding "*Total clients with Type 2 Diabetes*" values on PI05, PI07, PI18 (Type 2 diabetes) and PI23

Action required if values need amending: Amend the values so the "*Total clients with Type 2 Diabetes*" value for PI15 is the same as the corresponding "*Total clients with Type 2* Diabetes" values on PI05, PI07, PI18 (Type 2 diabetes) and PI23

Issue 3 – Denominators for PI15 are larger than the denominators for PI05, PI07, PI18, PI23

PI15

45 - 49 years	1	18

PI05

45 - 54 years	1	1	2	1	5	17

The above PI05 screenshot is an example. The same cell would also be highlighted on PI07, PI18 and PI23 if is selected.

Internal validation

For male regular clients with type 2 diabetes

- the number aged 45 to 49 years in PI15 (Value=18)

should not be more than

- ALL the numbers aged 45 to 54 years in PI05 6 Months (Value=17), PI05 12 Months (Value=18), PI07 (Value=18), PI08 (Value=18), PI18 (Value=18), PI23 (Value=18).

Please amend your data or provide a comment.

22/Oct/2019 15:28

AIHW rule: The denominators by age group and sex for PI15 (Type 2 diabetes for those aged 45-49) should be less than or equal to the denominators by age group and sex for those aged 45-54 for PI05, PI07, PI18 (Type 2 diabetes) and PI23

Issue: The Male 45 – 49 "*Total clients*" value on PI15 is larger than the corresponding values for PI05

Action required if values need amending: Amend the values to ensure the Male 45 – 49 "*Total clients*" value on PI15 is less than or equal to the corresponding values for PI05, PI07, PI18 (Type 2 diabetes) and PI23

PI15: Immunised against influenza – clients with chronic disease (COPD)

Issue 1 – Numerators are larger than the denominators

Clients with chronic obstructive pulmonary disease (COPD)

Male	Influenza immunised clients	Total clients with COPD
15 - 24 years	1	0

Internal validation

For Clients with chronic obstructive pulmonary disease (COPD) Male; Row: 15 - 24 years;

- PI15: Influenza immunised clients (Value=1)

should not be more than

- PI15: Total clients with COPD (Value=0)

Please amend your data or provide a comment.

22/Oct/2019 15:31

AIHW rule: The numerators by age group and sex should be less than or equal to the denominators by age group and sex

Issue: The Male 15 – 24 years "*Influenza immunised clients*" value is larger than the corresponding "*Total clients with COPD*" value

Action required if values need amending: Amend the values so the Male 15 – 24 years "*Influenza immunised clients*" value is less than or equal to the corresponding "*Total clients with COPD*" value

Issue 2 – Denominator for COPD is larger than the denominators for PI03, PI09 and PI16

PI15

35 - 44 years	0	77

PI03

35 - 44 years	37	76

Internal validation

For male regular clients aged 35 - 44 years

- the number with COPD in PI15 (Value=77)

should not be more than

- ALL the numbers of total regular clients in PI03 (Value=76), PI09 (Value=76), PI16 (Value=76).

Please amend your data or provide a comment.

22/Oct/2019 15:34

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

AIHW rule: The denominator by age group and sex for PI15 (COPD) should be less than or equal to the denominators by age group and sex for PI03, PI09 and PI16 (for corresponding age groups)

Issue: The Male 35 – 44 years "*Total clients with COPD*" value is larger than the "*Total clients*" value on PI03, PI09 and PI16

Action required if values need amending: Amend the values so the Male 35 – 44 years "*Total clients with COPD*" value is less than or equal to the "*Total clients*" value on PI03, PI09 and PI16

PI16: Alcohol consumption recorded

Issue 1 – Numerator is larger than the denominator

PI16: Alcohol consumption recorded

Indigenous regular clients whose alcohol consumption status has been recorded

Alcohol consumption recorded within the previous 24 months

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

Internal validation

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

- Alcohol consumption recorded (Value=82)

should not be more than

- Total clients (Value=81)

Please amend your data or provide a comment.

22/Oct/2019 15:40

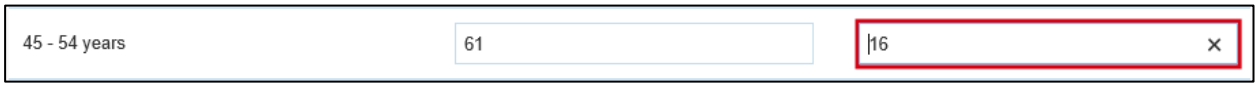
AIHW rule: The numerators by age group and sex should be less than or equal to the denominators by age group and sex

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

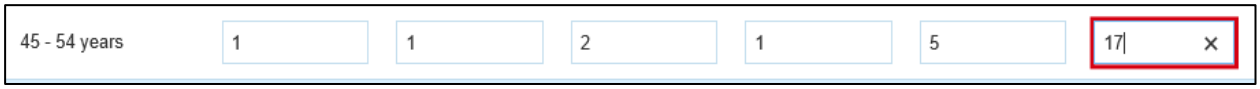
Action required if values need amending: Amend the values so the Male 15 – 24 years "*Alcohol consumption recorded"* value is less than or equal to the "*Total clients*" value

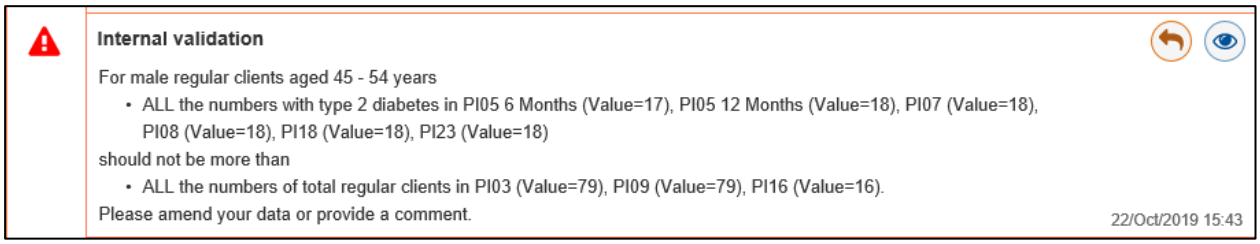
Issue 2 – Denominators are less than the denominators for PI05, PI07, PI15, PI18 and PI23

PI16



PI05





The above PI05 screenshot is an example. The same cell would also be highlighted on PI07, PI15, PI18 and PI23 if is selected.

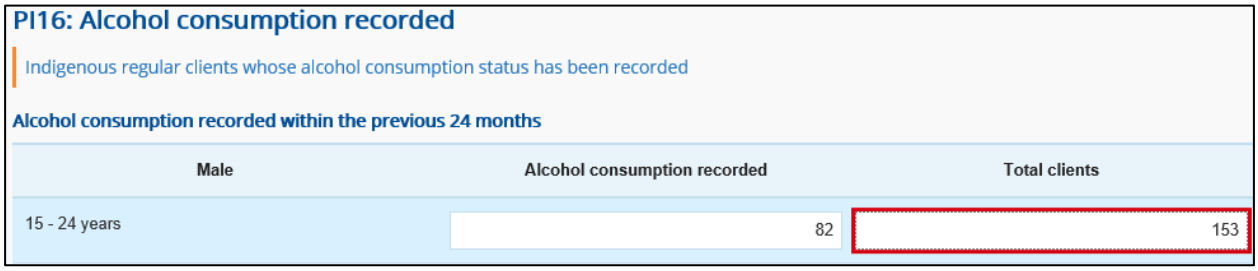
AIHW rule: The denominators by age group and sex for PI16, PI03 and PI09 should be greater than or equal to the denominators by age group and sex for PI05, PI07, PI15 (Type 2 diabetes for those aged 15-24, 25-34 and 35-44), PI18 (Type 2 diabetes) and PI23 (for the corresponding age groups)

Issue: The Male 45 – 54 years "*Total clients*" value is less than the corresponding "*Total clients*" values on PI05, PI07, PI15, PI18 and PI23

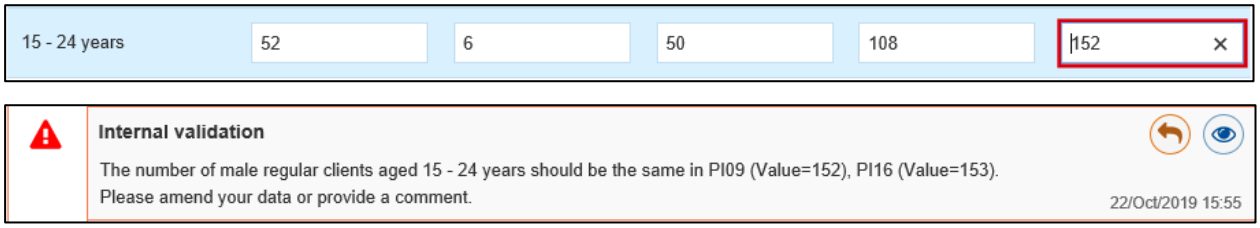
Action required if values need amending: Amend the values so the Male 45 – 54 years "*Total clients*" value is greater than or equal to the corresponding "*Total clients*" values on PI05, PI07, PI15, PI18 and PI23

Issue 3 – Denominators for PI16 are different to the denominators for PI03 and PI09

PI16



PI09



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

AIHW rule: The denominators for PI16 by age group and sex should be the same as the denominators for PI03 and PI09 by age group and sex (for the corresponding age groups)

Issue: The "*Total clients*" value for Male 15 – 24 years is larger than the corresponding "*Total clients*" value for PI03 and PI09

Action required if values need amending: Amend the values so the "*Total clients*" value for Male 15 – 24 years is equal to the corresponding "*Total clients*" value for PI03 and PI09

Issue 4 – Denominators for PI16, PI03 and PI09 are less than the denominator for PI22

PI16

35 - 44 years	67	99 ×

PI03

35 - 44 years	38	99 ×

PI09

35 - 44 years	54	9	15	78	99

PI22

35 - 44 years	10	100 ×

Internal validation

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

- PI22: With a cervical screening within the previous 2 years Age; Row: 35 - 44 years; (Value=100)
- PI22: With a cervical screening within the previous 3 years Age; Row: 35 - 44 years; (Value=100)
- PI22: With a cervical screening within the previous 5 years Age; Row: 35 - 44 years; (Value=100)

should not be more than the number of total regular clients in

- PI03 (Value=99), PI09 (Value=99), PI16 (Value=99)

Please amend your data or provide a comment.

08/Jan/2020 11:17

AIHW rule: The denominators for female clients for PI16, PI03 (25+) and PI09 by age group (25-34, 35-44, 45-54, 55-64) should be greater than or equal to the denominators in the corresponding age group for PI22

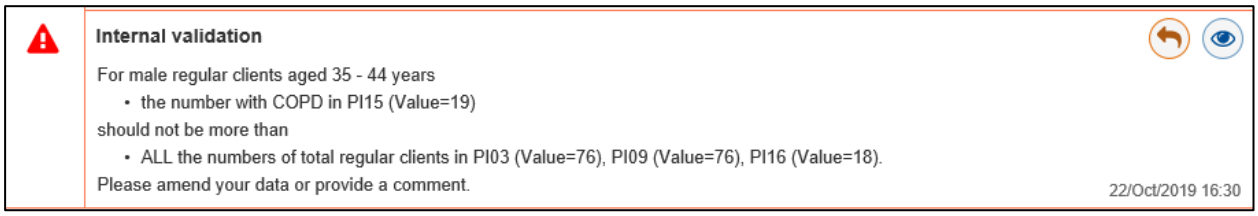
Issue: The "*Total clients*" values for female clients aged 35 – 44 years for PI16, PI03 (25+) and PI09 are less than the "*Total female clients without a hysterectomy*" value in the corresponding age group for PI22

Action required if values need amending: Amend the applicable values to ensure the "*Total clients*" values for female clients aged 35 – 44 years for PI16, PI03 (25+) and PI09 are greater than or equal to the "*Total female clients without a hysterectomy*" value in the corresponding age group for PI22

Issue 5 - Denominators for PI16, PI03 and PI09 are less than the denominator for PI15 (COPD)

PI16

PI15



AIHW rule: The denominators by age group and sex for PI16, PI03 and PI09 should be greater than or equal to the denominator by age group and sex for PI15 (COPD) (for the corresponding age groups)

Issue: The Male 35 – 44 years "*Total clients*" value on PI16 is less than the Male 35 – 44 years "*Total clients*" values on PI15 (COPD)

Action required if values need amending: Amend the values to ensure the Male 35 – 44 years "*Total clients*" value on PI16 is greater than or equal to the corresponding "*Total clients*" value on PI15 (COPD)

Issue 6 – Denominators for PI16, PI03 and PI09 are less than the denominator for PI14

PI16

45 - 54 years	61	20
55 - 64 years	33	40
65 years and older	9	12

PI14

	Influenza immunised clients aged 50 and over	Total clients aged 50 and over
Male	18	80

Internal validation

For male total regular clients
- the number aged 50 years and over in PI14 (Value=80)

should not be more than
- the sum aged 45 years and over in PI16 (Values=20 + 40 + 12).

Please amend your data or provide a comment.

22/Oct/2019 16:35

AIHW rule: The denominator for PI16, PI09 and PI03 for clients 45 and over should be greater than or equal to the total denominator for PI14 (50+)

Issue: The "*Total clients*" values for Males 45 and over add up to be less than the Male "*Total clients aged 50 and over*" value in PI14

Action required if values need amending: Amend the values to ensure the "*Total clients*" values for Males 45 and over add up to be greater than or equal to the Male "*Total clients aged 50 and over*" value in PI14

Issue 7 – Numerators for PI16 are less than the denominator for PI17

PI16

65 years and older	9	12

PI17

65 years and older	0	0	10

Internal validation

For male regular clients aged 65 years and older
- the number with AUDIT-C test in PI17 (Value=10)

should not be more than
- the numbers with alcohol consumption recorded clients in PI16 (Value=9).

Please amend your data or provide a comment.

22/Oct/2019 16:38

AIHW rule: The numerators for PI16 by age group and sex group should be greater than or equal to the denominator for PI17 by age group and sex

Issue: The Male 65 years and over "*Alcohol consumption recorded*" value is less than the Male 65 years and over "*Total clients with AUDIT-C test*" value on PI17

Action required if values need amending: Amend the values to ensure the Male 65 years and over "*Alcohol consumption recorded*" value is greater than or equal to the Male 65 years and over "*Total clients with AUDIT-C test*" value on PI17

Issue 8 – The denominators for PI16, PI09 and PI03 25+ are less than the denominators for PI12

PI16

PI16: Alcohol consumption recorded

Indigenous regular clients whose alcohol consumption status has been recorded

Alcohol consumption recorded within the previous 24 months

Male	Alcohol consumption recorded	Total clients
15 - 24 years	82	152
25 - 34 years	60	104

PI09

25 - 34 years	60	4	11	75	104

PI03

Male	With MBS item 715	Total clients
25 - 34 years	27	104

PI12

25 - 34 years	16	11	105

Internal validation

For male regular clients aged 25 - 34 years

- who have had their BMI recorded within the previous 24 months in PI12 (Value=105)

should not be more than

- ALL the numbers of total regular clients in PI03 (Value=104), PI09 (Value=104), PI16 (Value=104).

Please amend your data or provide a comment.

22/Oct/2019 17:01

AIHW rule: The denominators by age and sex for the corresponding age groups for PI16 and PI09 and the denominators by age group and sex for PI03 25+ should be greater than or equal to the denominators by age group and sex for PI12

Issue: The Male 25 – 34 years "*Total clients*" values for PI16 and PI09 and for PI03 25+ are less than the "*Total clients with BMI recorded*" value for PI12

Action required if values need amending: Amend the values as applicable to ensure the Male 25 – 34 years "*Total clients*" values for PI16 and PI09 and for PI03 25+ are greater than or equal to the "*Total clients with BMI recorded*" value for PI12

Issue 9 – The denominators for PI16, PI03 and PI09 aren't equal to the denominators for PI18 CVD plus the denominators for PI20, for clients aged 35 to 64

PI16

35 - 44 years	58	76
45 - 54 years	61	79
55 - 64 years	33	40

PI03

35 - 44 years	37	76
45 - 54 years	39	79
55 - 64 years	25	40

PI09

35 - 44 years	47	5	9	61	76
45 - 54 years	48	8	6	62	79
55 - 64 years	19	10	5	34	40

PI18

55 - 64 years	6	26

PI20

55 - 64 years	8	15

Internal validation

For male regular clients aged 55 - 64 years
- the number PI20 (Value=15)

should equal
- the number in PI16 (Value=40)

minus
- the number with CVD in PI18 (Value=26).

Please amend your data or provide a comment.

04/Nov/2019 12:58

AIHW rule: The denominators for PI16, PI03 and PI09 by age group and sex, should be equal to the denominators for PI18 CVD by age group and sex plus the denominators for PI20 by age group and sex, for clients aged 35 to 64

Issue: The Male 55 – 64 years "*Total clients*" values for PI16, PI03 and PI09 don't equal the corresponding "*Total clients with CVD*" values for PI18 CVD plus the corresponding "*Total clients without CVD*" value for PI20

Action required if values need amending: Amend the applicable values to ensure the Male 55 – 64 years "*Total clients*" values for PI16, PI03 and PI09 equal the corresponding "*Total clients with CVD*" values for PI18 CVD plus the corresponding "*Total clients without CVD*" value for PI20

Issue 10 – The denominators for PI16, PI03 and PI09 are less than the sum of the denominators for PI18 CVD plus the denominators for PI20, for clients aged 65 and over

PI16

65 years and older	9	12

PI03

65 years and older	5	12

PI09

65 years and older	5	3	1	9	12

PI18

65 years and older	2	7

PI20

65 - 74 years	1	6

Internal validation

For male regular clients aged 65 - 74 years
- the number PI20 (Value=6)

should not be more than
- the number in PI16 (Value=12)

minus
- the number with CVD in PI18 (Value=7).

Please amend your data or provide a comment.

22/Oct/2019 17:42

AIHW rule: The denominators for PI16, PI03 and PI09 by age group and sex should be greater than or equal to 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

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

Action required if values need amending: Amend the applicable values to ensure the 65 years and older "Total clients" values for PI16, PI03 and PI09 are greater than or equal to the 65 years and older "*Total clients with CVD*" value for PI18 CVD plus the 65 – 74 years "*Total clients without CVD*" value for PI20

Issue 11 – The denominators for female clients aged 65+ for PI16, PI03 and PI09 are less than the sum of the denominators for PI22 clients aged 65 – 69 and 70 – 74

PI16

65 years and older	22	31

PI03

65 years and older	16	31

PI09

65 years and older	8	8	9	25	31

PI22

65 - 69 years	9	23
70 - 74 years	8	9

Internal validation

For female regular clients aged 65 years and over, the sum who have not had a hysterectomy in

- PI22: With a cervical screening within the previous 3 years Age; Row: 65 - 69 years; (Value=23)
- PI22: With a cervical screening within the previous 3 years Age; Row: 70 - 74 years; (Value=9)

should not be more than the number in

- PI16: Alcohol consumption recorded within the previous 24 months Female; Row: 65 years and older; (Value=31)

Please amend your data or provide a comment.

22/Oct/2019 18:04

AIHW rule: The denominators for female clients aged 65+ for PI16, PI03 and PI09 should be greater than or equal to the sum of the denominators for PI22 clients aged 65 – 69 and 70 - 74

Issue: The "*Total clients*" values for female clients aged 65+ for PI16, PI03 and PI09 are less than the sum of the "*Total female clients without a hysterectomy*" values for PI22 clients aged 65 – 69 and 70 - 74

Action required if values need amending: Amend the applicable values to ensure "*Total clients*" values for female clients aged 65+ for PI16, PI03 and PI09 are greater than or equal to the sum of the "*Total female clients without a hysterectomy*" values for PI22 clients aged 65 – 69 and 70 - 74

Issue 12 – The denominators for female clients in PI16 and PI09 for those aged 15 – 24 are less than the denominators for PI22 for those aged 20-24

PI16

Alcohol consumption recorded within the previous 24 months

Female	Alcohol consumption recorded	Total clients
15 - 24 years	110	174

PI09

Female	Current smoker	Ex-smoker	Never smoked	Total clients with smoking status recorded	Total clients
15 - 24 years	71	8	49	128	174

PI22

Age	Clients with a cervical screening	Total female clients without a hysterectomy
20 - 24 years	3	175

Internal validation

For female regular clients

- the number aged 20 to 24 years who have not had a hysterectomy in
  - PI22: With a cervical screening within the previous 2 years Age; Row: 20 - 24 years; (Value=175)
  - PI22: With a cervical screening within the previous 3 years Age; Row: 20 - 24 years; (Value=175)
  - PI22: With a cervical screening within the previous 5 years Age; Row: 20 - 24 years; (Value=175)

should not be more than

- ALL the numbers of total regular clients aged 15 to 24 years in PI09 (Value=174), PI16 (Value=174).

Please amend your data or provide a comment.

22/Oct/2019 18:28

AIHW rule: The denominators for female clients in PI16 and PI09 for those aged 15 – 24 should be greater than or equal to the denominators for PI22 for those aged 20-24

Issue: The "*Total clients*" value for female clients in PI16 and PI09 for those aged 15 – 24 are less than the "*Total female clients without a hysterectomy*" value for PI22 for those aged 20-24

Action required if values need amending: Amend the applicable values to ensure the "*Total clients*" value for female clients in PI16 and PI09 for those aged 15 – 24 are greater than or equal to the "*Total female clients without a hysterectomy*" value for PI22 for those aged 20-24

Issue 13 – Denominators are less than the denominators for PI13

PI09

Female	Current smoker	Ex-smoker	Never smoked	recorded	Total clients
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

	Less than 13/40 weeks	13/40 weeks to less than 20/40 weeks	At or after 20/40 weeks	No result recorded	Did not attend an antenatal care visit	Total clients who gave birth
less than 20 years	4	0	1	1	2	58 ×
20-34 years	13	4	5	3	2	270

Internal validation

For female regular clients

- the sum aged less than 20 years and 20-34 years who gave birth in PI13 (Values=58 + 270)

should not be more than

- the sum aged 15 - 24 years and 25 - 34 years total clients in PI16 (Values=174 + 149).

Please amend your data or provide a comment.

23/Oct/2019 12:38

AIHW rule: The sum of denominators for females aged 15-24 and 25-34 for PI09 and PI16 should be greater than or equal to the sum of denominators for clients aged <20 and 20-34 for PI13

Issue: The 15 – 24 years and 25 – 34 years "*Total clients*" values for PI09 and PI16 are less than the corresponding "*Total clients who gave birth*" values on PI13

Action required if values need amending: Amend the values to ensure the sum of the 15 – 24 years and 25 – 34 years "*Total clients*" values for PI09 and PI16 are greater than or equal to the corresponding "*Total clients who gave birth*" values on PI13

Issue 14 – The sum of denominators for females aged 35 – 44 and 45-54 for PI16 and PI09 is less than the sum of denominators for clients aged 35+ for PI13

PI09

35 - 44 years	54	9	15	78	104 ×
45 - 54 years	50	9	12	71	92

PI16

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

PI13

35 years and older	3	1	1	0	0	197 ×

Internal validation

For female regular clients

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

should not be more than

- the sum aged 35 - 44 years and 45 - 54 years total clients in PI16 (Values=104 + 92).

Please amend your data or provide a comment.

23/Oct/2019 13:05

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

Issue: The "*Total clients who gave birth*" value in PI13 is larger than the "*Total clients*" values for female clients aged 35 to 54 years in PI09 and PI16

Action required if values need amending: Amend the applicable values so the "*Total client*" value in PI13 for female clients aged 35 and over is less than or equal to the combined total client number in PI09 and PI16

PI17: AUDIT-C result

Issue 1 – PI17 denominators are larger than the PI16 numerators

PI17

65 years and older	0	0	13

PI16

65 years and older	9	12

Internal validation

For male regular clients aged 65 years and older
- the number with AUDIT-C test in PI17 (Value=13)

should not be more than
- the numbers with alcohol consumption recorded clients in PI16 (Value=9).

Please amend your data or provide a comment.

23/Oct/2019 13:44

AIHW rule: The denominators for PI17 by age group and sex should be less than or equal to the numerators for PI16 by age group and sex

Issue: The male 65 years and older "*Total clients with AUDIT-C test*" value on PI17 is greater than the male 65 years and older "*Alcohol consumption recorded*" value on PI16

Action required if values need amending: Amend the values to ensure the male 65 years and older "*Total clients with AUDIT-C test*" value on PI17 is less than or equal to the male 65 years and older "*Alcohol consumption recorded*" value on PI16

Issue 2 – Numerators don't match the denominator

PI17: AUDIT-C result

Indigenous regular clients with an AUDIT-C test result recorded within the previous 24 months

Male	Greater than or equal to 4	Less than 4	Total clients with AUDIT-C test
15 - 24 years	0	1	0

Internal validation

For Male; Row: 15 - 24 years; the sum of
- Greater than or equal to 4 (Value=0)
- Less than 4 (Value=1)

should equal
- Total clients with AUDIT-C test (Value=0)

Please amend your data or provide a comment.

23/Oct/2019 13:47

AIHW rule: The sum of numerator components by age group and sex should be equal to the denominators by age group and sex

Issue: The sum of the Male 15 – 24 years "*Greater than or equal to 4*" and "*Less than 4*" values is greater than the "*Total clients with AUDIT-C test*" values

Action required if values need amending: Amend the values to ensure the sum of the Male 15 – 24 years "*Greater than or equal to 4*" and "*Less than 4*" values is equal to the "*Total clients with AUDIT-C test*" value

Issue 3 – Denominators are different within each age/sex group

AIHW rule: The denominators for each AUDIT-C result (≥4 and <4 for males; ≥3 and <3 for females) should be the same within each age/sex group

Issue: The denominators for each AUDIT-C result (≥4 and <4 for males; ≥3 and <3 for females) isn't the same within each age/sex group

Action required if values need amending: Amend the applicable values to ensure the denominators for each AUDIT-C result (≥4 and <4 for males; ≥3 and <3 for females) 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 2 separate denominators (one for each numerator ≥4 and <4 for males, ≥3 and <3 for females) and sometimes these are different

PI18: Kidney function test recorded (Type 2 Diabetes)

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

PI18: Kidney function test recorded

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

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

Male	eGFR only	ACR only	Both an eGFR and an ACR	Total clients with Type 2 Diabetes
15 - 24 years	0	2	0	1

Internal validation

For Clients with Type II diabetes, with test result recorded within the previous 12 months Male; Row: 15 - 24 years; the sum of

- eGFR only (Value=0)
- ACR only (Value=2)
- Both an eGFR and an ACR (Value=0)

should not be more than

- Total clients with Type II Diabetes (Value=1)

Please amend your data or provide a comment.

23/Oct/2019 13:55

AIHW rule: The sum of the numerator components by age group and sex should be less than or equal to the denominators for corresponding age groups

Issue: The sum of the Male 15 – 24 years "*eGFR only*" "*ACR only*" "*Both an eGFR and an 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 15 – 24 years "*eGFR only*" "*ACR only*" "*Both an eGFR and an ACR*" values are less than or equal to the corresponding "*Total clients with Type 2 Diabetes*" value

Issue 2 – Denominators on PI18 don't match the denominators on PI05, PI07, PI15 and PI23

PI18

Male	eGFR only	ACR only	Both an eGFR and an ACR	Total clients with Type II Diabetes
15 - 24 years	0	1	0	1

PI05

15 - 24 years	0	0	0	1	1	0

The above PI05 screenshot is an example. The same cell would also be highlighted on PI07, PI15, and PI23 if is selected.

Internal validation

The number of male regular clients aged 15 - 24 years with type 2 diabetes should be the same in PI05 6 Months (Value=0), PI05 12 Months (Value=1), PI07 (Value=1), PI08 (Value=1), PI15 (Value=1), PI18 (Value=1), PI23 (Value=1).
Please amend your data or provide a comment.

23/Oct/2019 14:00

AIHW rule: The denominators by age group and sex for PI18 (Type 2 diabetes) should be the same as the denominators by age group and sex for PI05 6 months and 12 months, PI07, PI15 (Type 2 diabetes for those aged 15-24, 25-34 and 35-44) and PI23

Issue: The Male 15 – 24 years "*Total clients with Type 2 Diabetes*" value for PI18 is greater than the Male 15 – 24 years "*Total clients with Type 2 Diabetes*" value for PI05, PI07, PI15 and PI23

Action required if values need amending: Amend the values so the Male 15 – 24 years "*Total clients with Type 2 Diabetes"* value for PI18 is the same as the Male 15 – 24 years "*Total clients with Type 2 Diabetes*" value for PI05, PI07, PI15 and PI23

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

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

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

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

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

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

PI18

PI18: Kidney function test recorded

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

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

Male	eGFR only	ACR only	Both an eGFR and an ACR	Total clients with Type 2 Diabetes
15 - 24 years	0	1	0	1

PI19-A

Male	>=90	>=60 but <90	>=45 but <60	>=30 but <45	>=15 but <30	<15	Total clients with Type II Diabetes, with an eGFR test
15 - 24 years	0	0	0	0	0	0	1

Internal validation

For male regular clients aged 15 - 24 years with type 2 diabetes

- the number who had an eGFR recorded in PI19 (Value=1)

should be the same as

- the sum who had an eGFR only recorded and both eGFR and ACR recorded in PI18 (Values=0 + 0).

Please amend your data or provide a comment.

23/Oct/2019 14:24

AIHW rule: The sum of the numerator components for PI18 type 2 diabetes (eGFR only and both ACR and eGFR) by age group and sex should be the same as the denominator for PI19 type 2 diabetes by age group and sex

Issue: The Male 15 – 24 years "*eGFR only*" and "*Both an eGFR and an ACR*" values on PI18 don't add up to the Male 15 – 24 years "*Total clients with Type 2 Diabetes with an eGFR test*" value on PI19-A

Action required if values need amending: Amend the values to ensure the Male 15 – 24 years "*eGFR only*" and "*Both an eGFR and an ACR*" values on PI18 add up to the Male 15 – 24 years "*Total clients with Type 2 Diabetes with an eGFR test*" value on PI19-A

Issue 5 – ACR numerators on PI18 don't add up to the denominator on PI19-B

PI18

PI18: Kidney function test recorded

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

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

Male	eGFR only	ACR only	Both an eGFR and an ACR	Total clients with Type 2 Diabetes
15 - 24 years	0	1	0	1

PI19-B

Male	<2.5	>=2.5 but <=25	>25	Total clients with ACR test
15 - 24 years	0	1	0	0

Internal validation

For male regular clients aged 15 - 24 years with type 2 diabetes
- the number with an ACR result recorded in PI19 (Value=0)

should be the same as
- the sum who had an ACR only recorded and both eGFR and ACR recorded in PI18 (Values=1 + 0).

Please amend your data or provide a comment.

23/Oct/2019 14:29

AIHW rule: The sum of the numerator components for PI18 type 2 diabetes (ACR only and both eGFR and ACR) by age group and sex should be the same as the denominators for PI19 ACR result for type 2 diabetes by age group and sex

Issue: The Male 15 – 24 years "*ACR only*" and "*Both an eGFR and an ACR*" values on PI18 don't add up to the Male 15 – 24 years "T*otal clients with Type 2 Diabetes with an ACR test*" value on PI19-B

Action required if values need amending: Amend the values to ensure the Male 15 – 24 years "*ACR only*" and "*Both an eGFR and an ACR*" values on PI18 add up to the Male 15 – 24 years "*Total clients with Type 2 Diabetes with an ACR test*" value on PI19-B

PI18: Kidney function test recorded (CVD)

Issue 1 - Numerator is larger than the denominator for age group and sex

PI18

Clients with cardiovascular disease (CVD), with test result recorded within the previous 12 months

Male	eGFR recorded	Total clients with CVD
15 - 24 years	1	0

Internal validation

For Clients with cardiovascular disease (CVD), with test result recorded within the previous 12 months Male; Row: 15 - 24 years;

- eGFR recorded (Value=1)

should not be more than

- Total clients with CVD (Value=0)

Please amend your data or provide a comment.

23/Oct/2019 14:34

AIHW rule: The numerators by age group and sex should be less than or equal to the denominators by age group and sex

Issue: The Male 15 – 24 years "*eGFR recorded*" value is larger than the corresponding "*Total clients with CVD*" value

Action required if values need amending: Amend the values to ensure the Male 15 – 24 years "*eGFR recorded*" value is less than or equal to the corresponding "*Total clients with CVD*" value

Issue 2 – PI18 denominator is larger than the denominators for PI03, PI09, PI16

PI18 (CVD)

45 - 54 years	2	25 ×

PI03

Male	With MBS item 715	Total clients
25 - 34 years	27	104
35 - 44 years	37	76
45 - 54 years	39	24 ×

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

Internal validation

For male regular clients aged 45 - 54 years
- the number with CVD in PI18 (Value=25)

should not be more than
- ALL the numbers of total regular clients in PI03 (Value=24), PI09 (Value=24), PI16 (Value=24).

Please amend your data or provide a comment.

23/Oct/2019 14:43

AIHW rule: The denominator by age group and sex for PI18 CVD should be less than or equal to the denominators by age group and sex for PI03, PI09 and PI16 (for the corresponding age groups)

Issue: The Male 45 – 54 years "*Total clients with CVD*" value for PI18 is greater than the Male 15 – 24 years "*Total clients with Type 2 Diabetes*" value for PI03, PI09 and PI16

Action required if values need amending: Amend the values so the Male 45 – 54 years "*Total clients with CVD*" value for PI18 is less than or equal to the Male 15 – 24 years "*Total clients with Type 2 Diabetes*" value for PI03, PI09 and PI16

Issue 3 – PI18 CVD numerators don't match the PI19 CVD denominators

PI18 (CVD)

Clients with cardiovascular disease (CVD), with test result recorded within the previous 12 months

Male	eGFR recorded	Total clients with CVD
15 - 24 years	0	0

PI19-A (CVD)

Clients with cardiovascular disease (CVD), with an eGFR test result (ml/min/1.73m²) recorded within the previous 12 months

Male	>=90	>=60 but <90	>=45 but <60	>=30 but <45	>=15 but <30	<15	Total clients with CVD, with an eGFR test
15 - 24 years	0	0	0	0	0	0	1

Internal validation

For male regular clients aged 15 - 24 years with CVD who had an eGFR recorded

- the number in PI18 (Value=0)

should be the same as

- the number in PI19 (Value=1).

Please amend your data or provide a comment.

23/Oct/2019 14:49

AIHW rule: The numerators for PI18 CVD by age group and sex should be the same as the denominators for PI19 CVD by age group and sex

Issue: The Male 15 – 24 years "*eGFR recorded*" value on PI18 (CVD) is different to the Male 15 – 24 years "*Total clients with CVD, with an eGFR test*" value on PI19-A

Action required if values need amending: Amend the values to ensure the Male 15 – 24 years "*eGFR recorded*" value on PI18 (CVD) is the same as the Male 15 – 24 years "*Total clients with CVD, with an eGFR test*" value on PI19-A

Issue 4 – PI18 CVD denominators don't match PI03, PI09 and PI16 denominators minus PI20 denominators for clients aged 35 to 64

PI18 (CVD)

55 - 64 years	6	27

PI03

55 - 64 years	25	40

PI09

55 - 64 years	19	10	5	34	40

PI16

55 - 64 years	33	40

PI20

55 - 64 years	8	14

Internal validation

For male regular clients aged 55 - 64 years
- the number PI20 (Value=14)

should equal
- the number in PI09 (Value=40)

minus
- the number with CVD in PI18 (Value=27).

Please amend your data or provide a comment.

23/Oct/2019 15:02

Internal validation

For male regular clients aged 55 - 64 years
- the number PI20 (Value=14)

should equal
- the number in PI16 (Value=40)

minus
- the number with CVD in PI18 (Value=27).

Please amend your data or provide a comment.

23/Oct/2019 15:02

Internal validation

For male regular clients aged 55 - 64 years
- the number PI20 (Value=14)

should equal
- the number in PI03 (Value=40)

minus
- the number with CVD in PI18 (Value=27).

Please amend your data or provide a comment.

23/Oct/2019 15:02

AIHW rule: The denominators for PI18 CVD by age group and sex should be equal to the denominators for PI03, PI09 and PI16 by age group and sex, minus the denominators for PI20 by age group and sex, for clients aged 35 to 64

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

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

Issue 5 – PI18 CVD denominators don't match PI03, PI09 and PI16 denominators minus PI20 denominators for clients aged 65 and over

PI18 (CVD)

65 years and older	2	13

PI03

65 years and older	5	12

PI09

65 years and older	5	3	1	9	12

PI16

65 years and older	9	12

PI20

65 - 74 years	1	5

Internal validation

For male regular clients aged 65 - 74 years
- the number PI20 (Value=5)

should not be more than
- the number in PI03 (Value=12)

minus
- the number with CVD in PI18 (Value=13).

Please amend your data or provide a comment.

25/Oct/2019 10:46

Internal validation

For male regular clients aged 65 - 74 years
- the number PI20 (Value=5)

should not be more than
- the number in PI09 (Value=12)

minus
- the number with CVD in PI18 (Value=13).

Please amend your data or provide a comment.

25/Oct/2019 10:46

Internal validation

For male regular clients aged 65 - 74 years
- the number PI20 (Value=5)

should not be more than
- the number in PI16 (Value=12)

minus
- the number with CVD in PI18 (Value=13).

Please amend your data or provide a comment.

25/Oct/2019 10:46

AIHW rule: The denominators for PI18 CVD by age group and sex should be less than or equal to the denominators for PI03, PI09 and PI16 by age group and sex, minus the denominators for PI20 by age group and sex, for clients aged 65 and over

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

PI19-A: eGFR result (Type 2 Diabetes)

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

PI19-A: eGFR result

Indigenous regular clients with a selected chronic disease who have had an eGFR recorded with results

Clients with Type 2 Diabetes, with an eGFR test result (ml/min/1.73m²) recorded within the previous 12 months

Male	>=90	>=60 but <90	>=45 but <60	>=30 but <45	>=15 but <30	<15	Total clients with Type 2 Diabetes, with an eGFR test
15 - 24 years	0	0	0	0	0	0	1

Internal validation

For Clients with Type II diabetes, with an eGFR test result (ml/min/1.73m²) recorded within the previous 12 months Male; Row: 15 - 24 years; the sum of

- >=90 (Value=0)
- >=60 but <90 (Value=0)
- >=45 but <60 (Value=0)
- >=30 but <45 (Value=0)
- >=15 but <30 (Value=0)
- <15 (Value=0)

should equal

- Total clients with Type II Diabetes, with an eGFR test (Value=1)

25/Oct/2019 11:49

AIHW rule: The sum of the numerator components by age group and sex should be equal to the denominators by age group and sex

Issue: The Male 15 – 24 years eGFR results fields don't add up to the corresponding "*Total clients with Type 2 Diabetes with an eGFR test*" value

Action required if values need amending: Amend the values so the Male 15 – 24 years numerators add up to the corresponding "*Total clients with Type 2 Diabetes with an eGFR test*" value

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

PI18 (Type 2 Diabetes)

Male	eGFR only	ACR only	Both an eGFR and an ACR	Total clients with Type II Diabetes
15 - 24 years	0	1	0	1

PI19-A

Male	>=90	>=60 but <90	>=45 but <60	>=30 but <45	>=15 but <30	<15	Total clients with Type II Diabetes, with an eGFR test
15 - 24 years	0	0	0	0	0	0	1

Internal validation

For male regular clients aged 15 - 24 years with type 2 diabetes

- the number who had an eGFR recorded in PI19 (Value=1)

should be the same as

- the sum who had an eGFR only recorded and both eGFR and ACR recorded in PI18 (Values=0 + 0).

Please amend your data or provide a comment.

25/Oct/2019 11:52

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

Issue: The Male 15 – 24 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-A

Action required if values need amending: Amend the values to ensure the Male 15 – 24 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-A

Issue 3 - Denominators for different result levels don't match

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

Issue: The denominators for each result level (≥90; ≥60 to <90; ≥45 to <60; ≥30 to <45; ≥15 to <30; and <15) aren't the same within each age group and sex

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

PI19-A: eGFR result (CVD)

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

Male	>=90	>=60 but <90	>=45 but <60	>=30 but <45	>=15 but <30	<15	Total clients with Type II Diabetes, with an eGFR test
15 - 24 years	0	0	0	0	0	0	1

Internal validation

For Clients with cardiovascular disease (CVD), with an eGFR test result (ml/min/1.73m²) recorded within the previous 12 months Male; Row: 15 - 24 years; the sum of

- >=90 (Value=0)
- >=60 but <90 (Value=0)
- >=45 but <60 (Value=0)
- >=30 but <45 (Value=0)
- >=15 but <30 (Value=0)
- <15 (Value=0)

should equal

- Total clients with CVD, with an eGFR test (Value=1)

25/Oct/2019 12:02

AIHW rule: The sum of the numerator components by age group and sex should be equal to the denominator by age group and sex

Issue: The values in the Male 15 – 24 years results cells don't add up to the corresponding value in the "*Total clients with CVD, with an eGFR test*" cell

Action required if values need amending: Amend the values to ensure the Male 15 – 24 years results cells add up to the value in the "*Total clients with CVD, with an eGFR test*" cell

Issue 2 - Numerator on PI18 (CVD) is not the same as the denominator on PI19-A (CVD)

PI19-A (CVD)

Clients with cardiovascular disease (CVD), with an eGFR test result (ml/min/1.73m²) recorded within the previous 12 months

Male	>=90	>=60 but <90	>=45 but <60	>=30 but <45	>=15 but <30	<15	Total clients with CVD, with an eGFR test
15 - 24 years	0	0	0	0	0	0	1

PI18 (CVD)

Clients with cardiovascular disease (CVD), with test result recorded within the previous 12 months

Male	eGFR recorded	Total clients with CVD
15 - 24 years	0	0

Internal validation

For male regular clients aged 15 - 24 years with CVD who had an eGFR recorded
- the number in PI18 (Value=0)

should be the same as
- the number in PI19 (Value=1).

Please amend your data or provide a comment.

25/Oct/2019 12:02

AIHW rule: The numerators for PI18 CVD by age group and sex should be the same as the denominator for PI19 CVD by age group and sex

Issue: The Male 15 – 24 years "*eGFR recorded*" value on PI18 (CVD) isn't the same as the "*Total clients with CVD, with an eGFR test*" value on PI19-A (CVD)

Action required if values need amending: Amend the values to ensure the Male 15 – 24 years "*eGFR recorded*" value on PI18 (CVD) is the same as the "*Total clients with CVD, with an eGFR test*" value on PI19-A (CVD)

Issue 3 - Denominators for different result levels don't match

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

Issue: The denominators for each result level (≥90; ≥60 to <90; ≥45 to <60; ≥30 to <45; ≥15 to <30; and <15) aren't the same within each age group and sex

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 six separate denominators, one for each numerator, and sometimes these are different

PI19-B: ACR result (Type 2 Diabetes)

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

PI19-B: ACR result

Indigenous regular clients with Type 2 Diabetes who have had an ACR test recorded with results

Clients with Type 2 Diabetes, with an ACR test result (mg/mmol) recorded within the previous 12 months

Male	<2.5	>=2.5 but <=25	>25	Total clients with ACR test
15 - 24 years	0	1	0	2

Internal validation

For Clients with Type II diabetes, with an ACR test result (mg/mmol) recorded within the previous 12 months Male; Row: 15 - 24 years; the sum of

- <2.5 (Value=0)
- >=2.5 but <=25 (Value=1)
- >25 (Value=0)

should equal

- Total clients with ACR test (Value=2)

Please amend your data or provide a comment.

25/Oct/2019 12:09

AIHW rule: The sum of the numerator components by age group and sex should be equal to the denominators by age group and sex

Issue: The values in the Male 15 – 24 years results cells do not add up to the value in the "*Total clients with ACR test*" cell

Action required if values need amending: Amend the values so the Male 15 – 24 years results cells values add up to the value in the "*Total clients with ACR test*" cell

Issue 2 – Numerators on PI18 don't add up to the denominator on PI19-B

PI19-B (Type 2 Diabetes)

PI19-B: ACR result

Indigenous regular clients with Type 2 Diabetes who have had an ACR test recorded with results

Clients with Type 2 Diabetes, with an ACR test result (mg/mmol) recorded within the previous 12 months

Male	<2.5	>=2.5 but <=25	>25	Total clients with ACR test
15 - 24 years	0	1	0	2

PI18 (Type 2 Diabetes)

PI18: Kidney function test recorded

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

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

Male	eGFR only	ACR only	Both an eGFR and an ACR	Total clients with Type 2 Diabetes
15 - 24 years	0	1	0	1

Internal validation

For male regular clients aged 15 - 24 years with type 2 diabetes
- the number with an ACR result recorded in PI19 (Value=2)

should be the same as
- the sum who had an ACR only recorded and both eGFR and ACR recorded in PI18 (Values=1 + 0).

Please amend your data or provide a comment.

25/Oct/2019 12:12

AIHW rule: The sum of the numerator components for PI18 type 2 diabetes (ACR 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

Issue: The values in the Male 15 – 24 "*ACR only*" and "*Both an eGFR and an ACR*" cells on PI18 don't add up to the Male 15 – 24 years value in the "*Total clients with ACR" test*" cell on PI19-B

Action required if values need amending: Amend the values to ensure the Male 15 – 24 "*ACR only*" and "*Both an eGFR and an ACR*" cells on PI18 add up to the Male 15 – 24 years value in the "*Total clients with ACR test*" cell on PI19-B

Issue 3 – Denominators for different result levels don't match

AIHW rule: The denominators for each result level (<2.5; ≥2.5 to ≤25; and >25 for males. (<3.5; ≥3.5 to ≤35; and >35 for females) should be the same within each age group and sex

Issue: The denominators for each result level (<2.5; ≥2.5 to ≤25; and >25 for males. (<3.5; ≥3.5 to ≤35; and >35 for females) aren't the same within each age group and sex

Action required if values need amending: Amend the applicable values to ensure the denominators for each result level (<2.5; ≥2.5 to ≤25; and >25 for males, <3.5; ≥3.5 to ≤35; and >35 for females) 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

PI20: CVD risk assessment factors

Issue 1 – Numerators are larger than the denominator

PI20: CVD risk assessment factors

Indigenous regular clients who have had the necessary risk factors assessed to enable cardiovascular disease (CVD) risk assessment

Clients without diagnosed CVD, who have a smoking status recorded, and a systolic blood pressure, total cholesterol, and high density lipoprotein (HDL) cholesterol measurements recorded within the previous 24 months

Male	With required measurements recorded	Total clients without CVD
35 - 44 years	57	56

Internal validation

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

- With required measurements recorded (Value=57)

should not be more than

- Total clients without CVD (Value=56)

Please amend your data or provide a comment.

25/Oct/2019 12:17

AIHW rule: The numerator by age group and sex should be less than or equal to the denominators by age group and sex

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

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

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

PI20: CVD risk assessment factors

PI20: CVD risk assessment factors

Indigenous regular clients who have had the necessary risk factors assessed to enable cardiovascular disease (CVD) risk assessment

Clients without diagnosed CVD, who have a smoking status recorded, and a systolic blood pressure, total cholesterol, and high density lipoprotein (HDL) cholesterol measurements recorded within the previous 24 months

Male	With required measurements recorded	Total clients without CVD
35 - 44 years	22	56

PI21: CVD risk assessment result

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

Internal validation

For male regular clients aged 35 - 44 years

- the number without CVD who had a Risk Assessment in PI21 (Value=57)

should not be more than

- the number of similar regular clients without CVD in PI20 (Value=56).

Please amend your data or provide a comment.

25/Oct/2019 12:19

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

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

Issue 3 – Denominators for PI20 don't match denominators for PI03, PI09 and PI16 minus the PI18 denominator

PI20

PI20: CVD risk assessment factors

Indigenous regular clients who have had the necessary risk factors assessed to enable cardiovascular disease (CVD) risk assessment

Clients without diagnosed CVD, who have a smoking status recorded, and a systolic blood pressure, total cholesterol, and high density lipoprotein (HDL) cholesterol measurements recorded within the previous 24 months

Male	With required measurements recorded	Total clients without CVD
35 - 44 years	22	57

PI03

35 - 44 years	37	76 ×
45 - 54 years	39	79
55 - 64 years	25	40

PI09

35 - 44 years	47	5	9	61	76 ×
45 - 54 years	48	8	6	62	79
55 - 64 years	19	10	5	34	40

PI16

35 - 44 years	58	76 ×
45 - 54 years	61	79
55 - 64 years	33	40

PI18 (CVD)

35 - 44 years	1	20 ×
45 - 54 years	2	25
55 - 64 years	6	26

Internal validation

For male regular clients aged 35 - 44 years
- the number PI20 (Value=57)

should equal
- the number in PI09 (Value=76)

minus
- the number with CVD in PI18 (Value=20).

Please amend your data or provide a comment.

25/Oct/2019 12:47

Internal validation

For male regular clients aged 35 - 44 years
- the number PI20 (Value=57)

should equal
- the number in PI03 (Value=76)

minus
- the number with CVD in PI18 (Value=20).

Please amend your data or provide a comment.

25/Oct/2019 12:47

Internal validation

For male regular clients aged 35 - 44 years
- the number PI20 (Value=57)

should equal
- the number in PI16 (Value=76)

minus
- the number with CVD in PI18 (Value=20).

Please amend your data or provide a comment.

25/Oct/2019 12:47

AIHW rule: The denominators for PI20 by age group and sex should be equal to the denominators for PI03, PI09 and PI16 by age group and sex, minus the denominator for PI18 CVD by age group and sex, for clients aged 35 to 64

Issue: The Male 35 – 44 years "*Total clients without CVD*" value for PI20 isn't equal to the Male 35 – 44 years "*Total clients*" values for PI03, PI09 and PI16, minus the "Total clients with CVD" value for PI18 CVD, for clients aged 35 to 64

Action required if values need amending: Amend the applicable values to ensure the Male 35 – 44 years "*Total clients without CVD*" value for PI20 is equal to the Male 35 – 44 years "*Total clients*" values for PI03, PI09 and PI16, minus the "Total clients with CVD" value for PI18 CVD, for clients aged 35 to 64

Issue 4 – Denominators for PI20 are more than the denominators on PI03, PI09 and PI16 minus the PI18 denominator

PI20

65 - 74 years	1	7

PI03

65 years and older	5	12

PI09

65 years and older	5	3	1	9	12

PI16

65 years and older	9	12

PI18 (CVD)

65 years and older	2	7

Internal validation

For male regular clients aged 65 - 74 years
- the number PI20 (Value=7)

should not be more than
- the number in PI03 (Value=12)

minus
- the number with CVD in PI18 (Value=7).

Please amend your data or provide a comment.

25/Oct/2019 12:48

Internal validation

For male regular clients aged 65 - 74 years
- the number PI20 (Value=7)

should not be more than
- the number in PI09 (Value=12)

minus
- the number with CVD in PI18 (Value=7).

Please amend your data or provide a comment.

25/Oct/2019 12:48

Internal validation

For male regular clients aged 65 - 74 years
- the number PI20 (Value=7)

should not be more than
- the number in PI16 (Value=12)

minus
- the number with CVD in PI18 (Value=7).

Please amend your data or provide a comment.

25/Oct/2019 12:48

AIHW rule: The denominators for PI20 by age group and sex should be less than or equal to the denominators for PI03, PI09 and PI16 by age group and sex, minus the denominator for PI18 CVD by age group and sex, for clients aged 65 and over

Issue: The Male 65 – 74 years "*Total clients without CVD*" value for PI20 is larger than the Male 65 years and older "*Total clients*" values for PI03, PI09 and PI16, minus the denominator for PI18 CVD, for clients aged 65 and over

Action required if values need amending: Amend the applicable values to ensure the denominators for PI20 by age group and sex are less than or equal to the denominators for PI03, PI09 and PI16 by age group and sex, minus the "Total clients with CVD" value for PI18 CVD, for clients aged 65 and over

PI21: CVD risk assessment result

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

PI21: CVD risk assessment result

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

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

Male	High (greater than 15%)	Moderate (10-15%)	Low (less than 10%)	Total clients without CVD with risk assessment
35 - 44 years	0	0	0	1

Internal validation

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

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

should equal

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

Please amend your data or provide a comment.

25/Oct/2019 13:28

AIHW rule: The sum of numerator components by age group and sex should be equal to the denominators by age group and sex

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

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

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

Issue 3 – Denominators on PI21 are larger than the denominators on PI20

PI21: CVD risk assessment result

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

PI20: CVD risk assessment factors

Male	With required measurements recorded	Total clients without CVD
35 - 44 years	22	56

Internal validation

For male regular clients aged 35 - 44 years

- the number without CVD who had a Risk Assessment in PI21 (Value=57)

should not be more than

- the number of similar regular clients without CVD in PI20 (Value=56).

Please amend your data or provide a comment.

25/Oct/2019 13:34

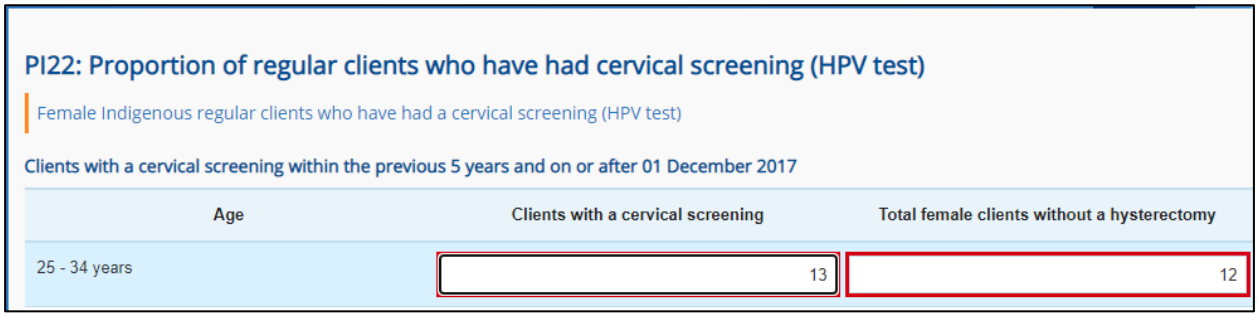
AIHW rule: The denominators for PI21 by age group and sex should be less than or equal to the denominators for PI20 by age group and sex

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

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

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

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

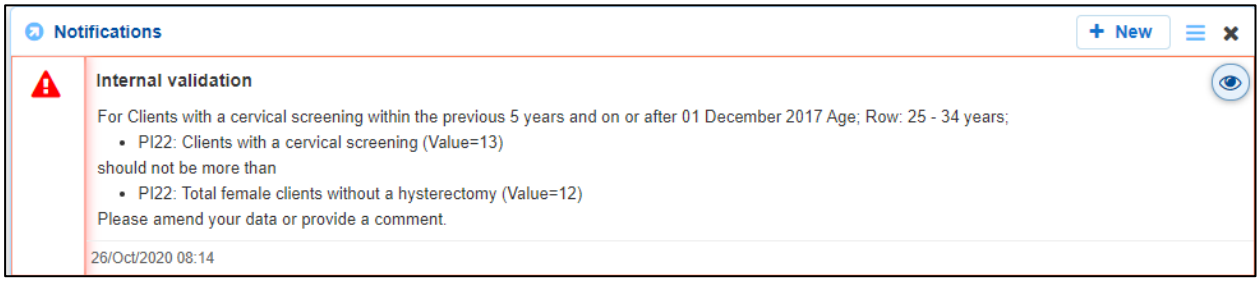


PI22: Proportion of regular clients who have had cervical screening (HPV test)

Female Indigenous regular clients who have had a cervical screening (HPV test)

Clients with a cervical screening within the previous 5 years and on or after 01 December 2017

Age	Clients with a cervical screening	Total female clients without a hysterectomy
25 - 34 years	13	12



Notifications

+ New

Internal validation

For Clients with a cervical screening within the previous 5 years and on or after 01 December 2017 Age; Row: 25 - 34 years;

- PI22: Clients with a cervical screening (Value=13)

should not be more than

- PI22: Total female clients without a hysterectomy (Value=12)

Please amend your data or provide a comment.

26/Oct/2020 08:14

AIHW rule: The numerators by age group should be less than or equal to the denominators by age group

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

Issue 2 – Denominators don't match with the denominators on PI03, PI09, PI14 and PI16

PI22

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

Female Indigenous regular clients who have had a cervical screening (HPV test)

Clients with a cervical screening within the previous 5 years and on or after 01 December 2017

Age	Clients with a cervical screening	Total female clients without a hysterectomy
25 - 34 years	13	149
35 - 44 years	12	105

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
35 - 44 years	67	104

Notifications + New

Internal validation

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

- PI22: Clients with a cervical screening within the previous 5 years and on or after 01 December 2017 Age; Row: 35 - 44 years; (Value=105)

should not be more than

- PI03:(Value=104),PI09:(Value=104),PI14:(Value=104),PI16:(Value=104)

Please amend your data or provide a comment.

26/Oct/2020 08:19

AIHW rule: The denominators for PI22 by age group (25-34, 35-44, 45-54, 55-64, 65-74) should be less than or equal to the denominators for female clients in the corresponding age groups for PI03 (25+) PI09 and PI16

Issue: The 35 – 44 years "*Total female clients without a hysterectomy*" value on PI22 is larger than the corresponding "*Total clients*" value on PI16

Action required if values need amending: Amend the values to ensure the 35 – 44 years "*Total female clients without a hysterectomy*" value on PI22 is less than or equal to the corresponding "*Total clients*" value on PI16

Issue 3 – Denominator total for PI22 clients aged 65-74 is larger than denominators for female clients aged 65+ for PI03, PI09 and PI16

PI22

65 - 74 years	0	32

PI03

65 years and older	16	31

PI09

65 years and older	8	8	9	25	31

PI16

65 years and older	22	31

Notifications + New

Internal validation

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

- PI22: Clients with a cervical screening within the previous 5 years and on or after 01 December 2017 Age; Row: 65 - 74 years; (Value=32)

should not be more than

- PI03:(Value=31),PI09:(Value=31),PI14:(Value=31),PI16:(Value=31)

Please amend your data or provide a comment.

26/Oct/2020 08:30

AIHW rule: The denominator for PI22 clients aged 65-74 should be less than or equal to the denominators for female clients aged 65+ for PI03, PI09 and PI16

Issue: The "*Total female clients without a hysterectomy*" value for PI22 clients aged 65--74 is more than the "*Total clients*" values for female clients aged 65+ for PI03, PI09 and PI16

Action required if values need amending: Amend the applicable values to ensure the sum of the "*Total female clients without a hysterectomy*" value for PI22 clients aged 65-74 is less than or equal to the "*Total clients*" values for female clients aged 65+ for PI03, PI09 and PI16

Issue 5 – Denominator for PI22 for clients aged 25 - 34 is greater than the denominators for female clients in PI09 and PI16 for those aged 25 to 34

PI22

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

Female Indigenous regular clients who have had a cervical screening (HPV test)

Clients with a cervical screening within the previous 5 years and on or after 01 December 2017

Age	Clients with a cervical screening	Total female clients without a hysterectomy
25 - 34 years	13	150

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

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

Notifications + New

Internal validation

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

- PI22: Clients with a cervical screening within the previous 5 years and on or after 01 December 2017 Age; Row: 25 - 34 years; (Value=150)

should not be more than

- PI03:(Value=149),PI09:(Value=149),PI14:(Value=149),PI16:(Value=149)

Please amend your data or provide a comment.

26/Oct/2020 08:42

AIHW rule: The denominators for PI22 for those aged 25 - 34 should be less than or equal to the denominators for female clients in PI09 and PI16 for those aged 25 to 34

Issue: The 25 – 34 years "*Total female without a hysterectomy*" value for PI22 is larger than the "*Total clients*" values for female clients in PI09 and PI16 for those aged 25 to 34

Action required if values need amending: Amend the applicable values to ensure the 25 – 34 years "*Total female without a hysterectomy*" value for PI22 is less than or equal to the "*Total clients*" values for female clients in PI09 and PI16 for those aged 25 to 34

PI23: Blood pressure recorded

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

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

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

Male	BP <= 130/80 mmHg	Total clients tested with Type 2 Diabetes	Total clients with Type 2 Diabetes
0 - 4 years	0	0	0
5 - 14 years	0	0	0
15 - 24 years	0	1	1
25 - 34 years	0	1	1
35 - 44 years	4	12	19
45 - 54 years	5	14	18
55 - 64 years	9	16	19
65 years and older	0	3	6
Total males	18	47	64
	28%	73%	

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

Issue 1 – Numerators are larger than the denominator

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

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

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

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

Internal validation

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

- Total clients tested with Type II Diabetes (Value=1)

should not be more than

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

Please amend your data or provide a comment.

25/Oct/2019 15:02

AIHW rule: The numerators by age group and sex should be less than or equal to the denominators by age group and sex

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

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

Issue 2 – Denominators don't match with PI05, PI07, PI15 and PI18

PI23

25 - 34 years	0	1	1 ×

PI07

25 - 34 years	0	0 ×

The above PI07 screenshot is an example. The same cell would also be highlighted on PI05, PI15 and PI18 if is selected.

Internal validation

The number of male regular clients aged 25 - 34 years with type 2 diabetes should be the same in PI05 6 Months (Value=1), PI05 12 Months (Value=1), PI07 (Value=0), PI08 (Value=1), PI15 (Value=1), PI18 (Value=1), PI23 (Value=1).
Please amend your data or provide a comment.

25/Oct/2019 15:09

AIHW rule: The denominators by age group and sex for PI23 should be the same for PI05 6 months and 12 months, PI07, PI15 (Type 2 diabetes for those aged 15-24, 25-34 and 35-44), PI18 (Type 2 diabetes) (for the corresponding age groups)

Issue: The Male 25 – 34 years "*Total clients with Type 2 Diabetes*" value on PI23 is different to the corresponding value on PI07

Action required if values need amending: Amend the values to ensure the Male 25 – 34 years "*Total clients with Type 2 Diabetes*" value on PI23 is the same as the corresponding value on PI07

Issue 3 – Numerators on PI23 don't match the denominator on PI24

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

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

Issue 4 – Denominators larger than the denominators on PI03, PI09, PI14 and PI16

PI23

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

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

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

Male	BP <= 130/80 mmHg	Total clients tested with Type 2 Diabetes	Total clients with Type 2 Diabetes
0 - 4 years	0	0	0
5 - 14 years	0	0	0
15 - 24 years	0	1	153

PI16

PI16: Alcohol consumption recorded

Indigenous regular clients whose alcohol consumption status has been recorded

Alcohol consumption recorded within the previous 24 months

Male	Alcohol consumption recorded	Total clients
15 - 24 years	82	152

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

Internal validation

For male regular clients aged 15 - 24 years

- ALL the numbers with type 2 diabetes in PI05 6 Months (Value=1), PI05 12 Months (Value=1), PI07 (Value=1), PI08 (Value=1), PI15 (Value=1), PI18 (Value=1), PI23 (Value=153)

should not be more than

- ALL the numbers of total regular clients in PI09 (Value=152), PI16 (Value=152).

Please amend your data or provide a comment.

25/Oct/2019 15:21

AIHW rule: The denominators by age group and sex for PI23, PI05, PI07 and PI15 (Type 2 diabetes for those aged 15-24, 25-34 and 35-44), and PI18 (Type 2 diabetes) should be less than or equal to the denominators for PI03, PI09 and PI16 by age group and sex (for the corresponding age groups)

Issue: The Male 15 – 24 years "*Total clients with Type 2 Diabetes*" value on PI23 is greater than the Male 15 – 24 years "*Total clients*" value on PI16

Action required if values need amending: Amend the values to ensure the Male 15 – 24 years "*Total clients with Type 2 Diabetes*" value on PI23 is less than or equal to the Male 15 – 24 years "*Total clients*" value on PI16

PI24: Blood pressure less than or equal to 130/80mmHg

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

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

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

Male	BP <= 130/80 mmHg	Total clients tested with Type 2 Diabetes	Total clients with Type 2 Diabetes
0 - 4 years	0	0	0
5 - 14 years	0	0	0
15 - 24 years	0	1	1
25 - 34 years	0	1	1
35 - 44 years	4	12	19
45 - 54 years	5	14	18
55 - 64 years	9	16	19
65 years and older	0	3	6
Total males	18	47	64
	28%	73%	

The cells highlighted above make up **PI24: Blood pressure less than or equal to 130/80mm/Hg**. All data validation issues for PI24 involve at least one of these cells.

The cells in the **BP <= 130/80mm/Hg** column make up the numerator for PI24 while the cells in **Total clients tested with Type 2 Diabetes** column make up the denominator for PI24.

Issue 1 – Numerators larger than denominator

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

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

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

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

Internal validation

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

- BP <= 130/80 mmHg (Value=1)

should not be more than

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

Please amend your data or provide a comment.

14/Jul/2020 08:48

AIHW rule: The numerators by age group and sex should be less than or equal to the denominators by age group and sex

Issue: The Male 0 – 4 years "*BP <= 130/80mmHg*" 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 <= 130/80mmHg*" value is less than or equal to the corresponding "*Total clients tested with Type 2 Diabetes*" value

Issue 2 – Denominators for PI24 don't match the numerators from PI23

AIHW rule: The denominators for PI24 by age group and sex should be the same as the numerators for PI23 by age group and sex

Issue: The denominators for PI24 by age group and sex aren't the same as the numerators for PI23 by age group and sex

Action required if values need amending: Amend the value to ensure the denominators for PI24 by age group and sex are the same as the numerators for PI23 by age group and sex. Note that you can only see one value for each denominator and numerator 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 one denominator for PI24 and one numerator for PI23 and sometimes these are different

TNATSIRC: Indigenous regular clients

Issue 1 – Indigenous clients with sex and age recorded are less than the sum of denominators on PI03, PI04 and PI09

TNATSIRC

TNATSIRC: Indigenous regular clients

	Indigenous clients without a sex or age recorded	Indigenous clients with a sex recorded but not an age	Indigenous clients with an age recorded but not a sex	Indigenous clients with both a sex and age recorded
Number of Indigenous regular clients	0	2	0	152

PI03

PI03: MBS health assessment

Indigenous regular clients for whom a Medicare Benefits Schedule Health Assessment for Aboriginal and Torres Strait Islander People (MBS Item 715) was claimed

Aged 0-4 years, with assessment within the previous 12 months

	With MBS item 715	Total clients
0 - 4 years	54	208

Internal validation

For regular clients

- the sum of all regular clients that are included in PI03 (0-4 years), PI04 (60 months to less than 72 months) and PI09 (15 years and over) (Values=208 + 29 + 152 + 104 + 76 + 79 + 40 + 12 + 174 + 149 + 104 + 92 + 41 + 31)

should not be more than

- the number of Indigenous clients with both a sex and age recorded in TNATSIRC (Value=152).

Please amend your data or provide a comment.

25/Oct/2019 15:28

AIHW rule: The number of Indigenous regular clients with age and sex recorded should be greater than or equal to all clients that are included in the denominators of PI03 (0-4 years) PI04 (60 months to less than 72 months) and PI09 (15 years and over)

Issue: The "*Indigenous clients with both a sex and age recorded*" value on the TNATSIRC tab is less than the sum of 0 – 4 years "*Total clients*" value on PI03, 60 to <72 months "*Indigenous children*" on PI04 and all "*Total clients*" aged 15 and over in PI09

Action required if values need amending: Amend the values to ensure the "*Indigenous clients with both a sex and age recorded*" value on the TNATSIRC tab is greater than or equal to the sum of 0 – 4 years "*Total clients*" value on PI03, 60 to <72 months "*Indigenous children*" on PI04 and all "*Total clients*" aged 15 and over in PI09

nKPI Validation Rules that can be broken

This section of the user guide looks at the 24 indicators in the Data Portal nKPI form and the different AIHW data validation rules that are applied to each indicator.

This section of the guide covers those rules that **can be broken**.

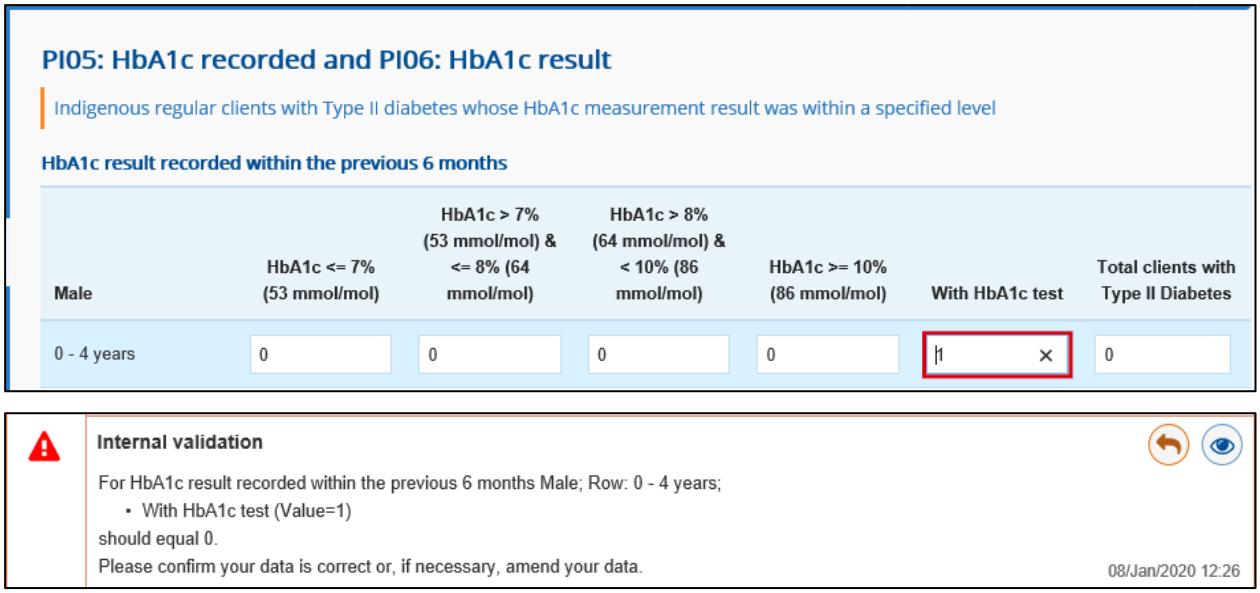
The sections below will detail the different data validation issue flags that will be generated when an AIHW data validation rule is breached by a Health Service's data for a particular indicator. In addition, they will also detail what the Health Service user needs to do to address the data validation issue flag and resolve the applicable data breach. Please note that these validation rules are queries only to help AIHW confirm that your data are correct. If your data are correct, please provide a comment.

These validation rules are queries only, designed to help the AIHW confirm your data are correct. If your data are correct and one of these rules appears, please add a response against the applicable flag.

PI06: HbA1c result (6 and 12 months)

Issue 1 – Denominators for clients aged 0-4 don't equal zero

PI05/06



AIHW rule: The denominators for PI05, PI06, PI07, PI23 and PI24 for Indigenous regular clients aged 0-4 should equal zero

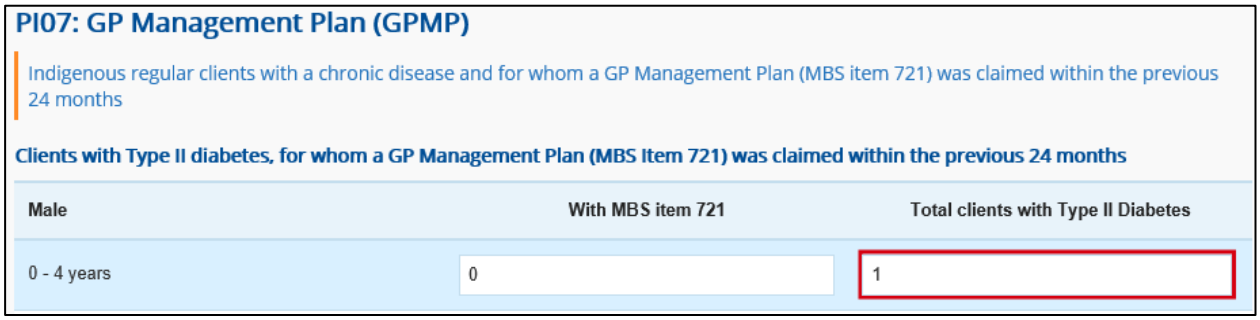
Issue: The "*With HbA1c test*" values for Indigenous regular clients aged 0-4 don't equal zero. This is a query only, as it is unlikely that there are children aged 0 – 4 with Type 2 Diabetes

Action required if values need amending: Amend the applicable values to ensure the "*With HbA1c test*" values for Indigenous regular clients aged 0-4 equal zero. If the values are correct, please add a response against the applicable data validation flag explaining why

PI07: Chronic disease management plan

Issue 1 - Denominators for clients aged 0-4 don't equal zero

PI07

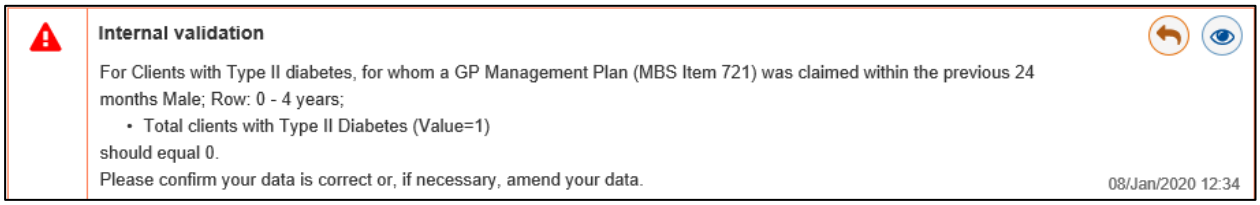


PI07: GP Management Plan (GPMP)

Indigenous regular clients with a chronic disease and for whom a GP Management Plan (MBS item 721) was claimed within the previous 24 months

Clients with Type II diabetes, for whom a GP Management Plan (MBS Item 721) was claimed within the previous 24 months

Male	With MBS item 721	Total clients with Type II Diabetes
0 - 4 years	0	1



Internal validation

For Clients with Type II diabetes, for whom a GP Management Plan (MBS Item 721) was claimed within the previous 24 months Male; Row: 0 - 4 years;

- Total clients with Type II Diabetes (Value=1)

should equal 0.

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

08/Jan/2020 12:34

AIHW rule: The denominators for PI05, PI06, PI07, PI23 and PI24 for Indigenous regular clients aged 0-4 should equal zero

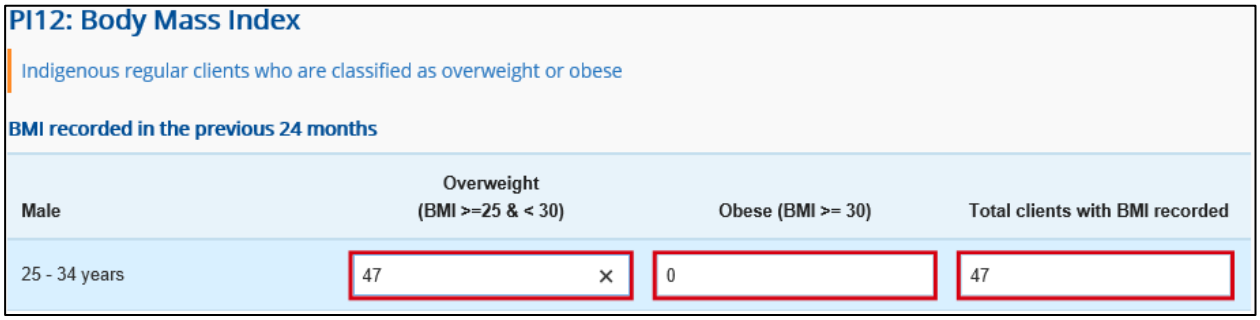
Issue: The "*Total clients with Type 2 Diabetes*" value for PI05, PI06, PI07, PI23 and PI24 for Indigenous regular clients aged 0-4 don't equal zero. This is a query only as it is unlikely that there are children aged 0–4 with Type 2 Diabetes

Action required if values need amending: Amend the applicable values to ensure the "*Total clients with Type 2 Diabetes*" value for PI05, PI06, PI07, PI23 and PI24 for Indigenous regular clients aged 0-4 equal zero. If the values are correct, please add a response against the applicable data validation flag explaining why

PI12: Body Mass Index

Issue 1 – Numerators larger than or equal to denominators

PI12

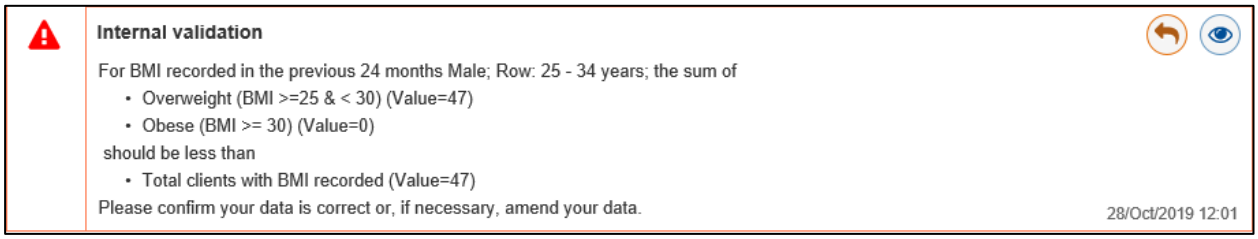


PI12: Body Mass Index

Indigenous regular clients who are classified as overweight or obese

BMI recorded in the previous 24 months

Male	Overweight (BMI >=25 & < 30)	Obese (BMI >= 30)	Total clients with BMI recorded
25 - 34 years	47	0	47



Internal validation

For BMI recorded in the previous 24 months Male; Row: 25 - 34 years; the sum of

- Overweight (BMI >=25 & < 30) (Value=47)
- Obese (BMI >= 30) (Value=0)

should be less than

- Total clients with BMI recorded (Value=47)

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

28/Oct/2019 12:01

AIHW rule: The sum of the numerators by age group and sex should be less than the denominators by age group and sex. Where the sum of the numerators is equal to the denominator, the issue is only raised if the denominator is greater than or equal to 20

Issue: The sum of the Male 25 – 34 years "*Overweight"* and "*Obese"* values is equal to or greater than the Male 25 – 34 years "*Total clients with BMI recorded*" value. This is a query only as it is unlikely that this is the case

Action required if values need amending: Amend the applicable values to ensure the sum of the Male 25 – 34 years "*Overweight"* and "*Obese"* values is less than the Male 25 – 34 years "*Total clients with BMI recorded*" value. If the values are correct, please add a response against the applicable data validation flag explaining why

PI15: Clients with chronic disease immunised against influenza – COPD

Issue 1 – Denominator is greater than 0 but more than the denominators for PI15 Type 2 Diabetes

PI15: Type 2 Diabetes

PI15: Immunised against influenza - clients with chronic disease

Indigenous regular clients with a selected chronic disease who are immunised against influenza

Clients with Type II diabetes

Male	Influenza immunised clients	Total clients with Type II Diabetes
15 - 24 years	0	1
25 - 34 years	0	1
35 - 44 years	4	19
45 - 49 years	1	6
Total males	5	27
	0%%	0%%

Clients with Type II diabetes

Female	Influenza immunised clients	Total clients with Type II Diabetes
15 - 24 years	1	5
25 - 34 years	0	9
35 - 44 years	1	15
45 - 49 years	4	8

PI15: COPD

Clients with chronic obstructive pulmonary disease (COPD)

Male	Influenza immunised clients	Total clients with COPD
15 - 24 years	0	2
25 - 34 years	0	2
35 - 44 years	0	20
45 - 49 years	0	7
Total males	0 0%	31

Clients with chronic obstructive pulmonary disease (COPD)

Female	Influenza immunised clients	Total clients with COPD
15 - 24 years	0	6
25 - 34 years	0	10
35 - 44 years	0	16
45 - 49 years	1	9
Total females	1 2%	41
Total	1	72

Internal validation

For male and female regular clients for all age groups
- Total clients with COPD

should be less than
- Total clients with Type II Diabetes

Please amend your data or provide a comment.

28/Oct/2019 12:23

AIHW rule: If the denominator by age group and sex for PI15 – COPD is greater than 0 then the denominator by age group and sex for PI15 – COPD should be less than the denominators by age group and sex for PI15 – Type 2 Diabetes. This validation issue is only raised if all 8 sex and age groups are affected

Issue: The "*Total clients with COPD*" values for PI15 is greater than 0 but is more than the "*Total clients with Type 2 Diabetes*" values for PI15. This is a query only as it is unlikely this will be the case

Action required if values need amending: Amend the applicable values to ensure the "*Total clients with COPD*" value for PI15 is less than the "*Total clients with Type 2 Diabetes*" values for PI15. If the values are correct, please add a response against the applicable data validation flag explaining why

PI18: Clients with Type 2 Diabetes or CVD with a kidney function test

Issue 1 – CVD denominators are equal to Type 2 Diabetes denominators

PI18

PI18: Kidney function test recorded

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

Clients with Type II diabetes, with test result recorded within the previous 12 months

Male	eGFR only	ACR only	Both an eGFR and an ACR	Total clients with Type II Diabetes
15 - 24 years	0	0	0	5
25 - 34 years	0	0	0	5
35 - 44 years	0	0	0	5
45 - 54 years	0	0	0	5
55 - 64 years	0	0	0	5
65 years and older	0	0	0	5
Total males	0 0%	0 0%	0 0%	30

Clients with Type II diabetes, with test result recorded within the previous 12 months

Female	eGFR only	ACR only	Both an eGFR and an ACR	Total clients with Type II Diabetes
15 - 24 years	0	0	0	5
25 - 34 years	0	0	0	5
35 - 44 years	0	0	0	5
45 - 54 years	0	0	0	5
55 - 64 years	0	0	0	5
65 years and older	0	0	0	5
Total females	0 0%	0 0%	0 0%	30
Total	0 0%	0 0%	0 0%	60

Clients with cardiovascular disease (CVD), with test result recorded within the previous 12 months

Male	eGFR recorded	Total clients with CVD
15 - 24 years	0	5
25 - 34 years	0	5
35 - 44 years	0	5
45 - 54 years	0	5
55 - 64 years	0	5
65 years and older	0	5
Total males	0	30
	0%	

Clients with cardiovascular disease (CVD), with test result recorded within the previous 12 months

Female	eGFR recorded	Total clients with CVD
15 - 24 years	0	5
25 - 34 years	0	5
35 - 44 years	1	5
45 - 54 years	4	5
55 - 64 years	5	5
65 years and older	10	5
Total females	20	30
	67%	
Total	20	60
	33%	

Internal validation

For male and female regular clients for all age groups

- Total clients with CVD

should not be equal to

- Total clients with Type II Diabetes

Please amend your data or provide a comment.

08/Jan/2020 14:10

AIHW rule: If the denominator by age group and sex for PI18 – CVD is greater than 0 then the denominator by age group and sex for PI18 – CVD should not be equal to the denominators by age group and sex for PI18 – Type 2 diabetes. This issue is only raised if all 12 age and sex groups are affected

Issue: The denominator by age group and sex for PI18 – CVD is greater than 0 but is equal to the denominators by age group and sex for PI18 – Type 2 diabetes. This is a query only as it is unlikely that this is the case

Action required if values need amending: Amend the applicable values to ensure the denominator by age group and sex for PI18 – CVD is not equal to the denominators by age

group and sex for PI18 – Type 2 diabetes. If the values are correct, please add a response against the applicable data validation flag explaining why

PI23: Blood pressure recorded

Issue 1 - Denominators for clients aged 0-4 don't equal zero

PI23

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

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

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

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

Internal validation

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

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

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

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

26/Oct/2020 09:09

AIHW rule: The "*Total clients with Type 2 Diabetes*" values for PI05, PI06, PI07, PI23 and PI24 for Indigenous regular clients aged 0-4 should equal 0

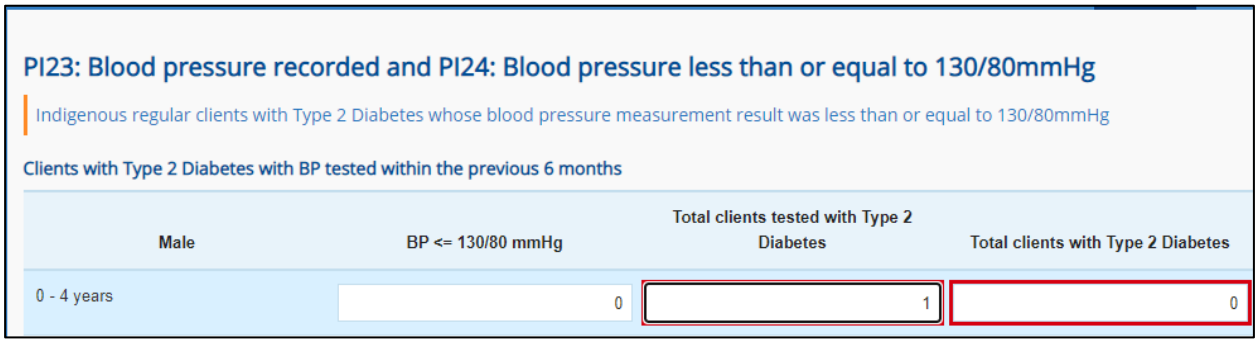
Issue: The *Total clients with Type 2 Diabetes*" values for PI05, PI06, PI07, PI23 and PI24 for Indigenous regular clients aged 0-4 aren't equal to 0. This is a query only as it is unlikely that there are children aged 0-4 with Type 2 Diabetes

Action required if values need amending: Amend the applicable values to ensure the Total clients with Type 2 Diabetes" values for PI05, PI06, PI07, PI23 and PI24 for Indigenous regular clients aged 0-4 equal 0. If the values are correct, please add a response against the applicable data validation flag explaining why

PI24: Blood pressure result

Issue 1 – Denominator for clients aged 0-4 don't equal zero

PI224

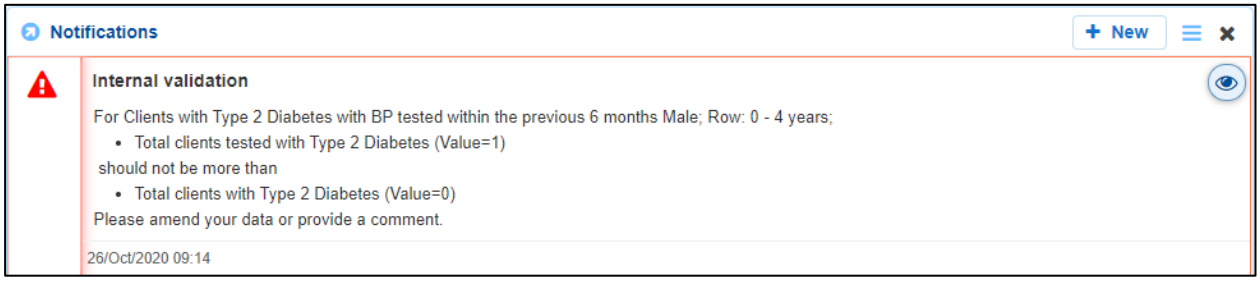


PI23: Blood pressure recorded and PI24: Blood pressure less than or equal to 130/80mmHg

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

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

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



Notifications

+ New

Internal validation

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

- Total clients tested with Type 2 Diabetes (Value=1)

should not be more than

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

Please amend your data or provide a comment.

26/Oct/2020 09:14

AIHW rule: The denominator for PI24 for Indigenous regular clients aged 0-4 should equal 0

Issue: The "*Total clients tested with Type 2 Diabetes*" value for PI24 for Indigenous regular clients aged 0-4 doesn't equal 0. This is a query only, as it is unlikely that there are children aged 0-4 with Type 2 Diabetes

Action required if values need amending: Amend the applicable values to ensure the "*Total clients tested with Type 2 Diabetes*" values for Indigenous regular clients aged 0-4 equal 0. If the values are correct, please add a response against the applicable data validation flag explaining why

TNATSIRC

Issue 1 – The difference between the number of Indigenous regular clients with age and sex recorded and all clients that are included in the denominators of PI03 (0-4 years) PI04 (60 months to less than 72 months) and PI09 (15 years and over) is more than 40% of the Indigenous regular clients with age and sex recorded

PI03

Aged 0-4 years, with assessment within the previous 12 months

	With MBS item 715	Total clients
0 - 4 years	54	508

PI04

60 to < 72 months	27	29

PI09

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

TNATSIRC

TNATSIRC: Indigenous regular clients

	Indigenous clients without a sex or age recorded	Indigenous clients with a sex recorded but not an age	Indigenous clients with an age recorded but not a sex	Indigenous clients with both a sex and age recorded
Number of Indigenous regular clients	0	2	0	1526

Internal validation

The difference between

- the sum of all regular clients that are included in PI03 (0-4 years), PI04 (60 months to less than 72 months) and PI09 (15 years and over) (Values=508 + 29 + 152 + 104 + 76 + 79 + 40 + 12 + 174 + 149 + 104 + 92 + 41 + 31)

and

- Indigenous clients with both a sex and age recorded in TNATSIRC (Value=1526)

should be less than40 % of Indigenous clients with both a sex and age recorded in TNATSIRC

Please amend your data or provide a comment.

28/Oct/2019 13:18

AIHW rule: The difference between the number of Indigenous regular clients with age and sex recorded and all clients that are included in the denominators of PI03 (0-4 years) PI04 (60

months to less than 72 months) and PI09 (15 years and over) should be less than 40% of Indigenous regular clients with age and sex recorded

Issue: The difference between the number of Indigenous regular clients with age and sex recorded and all clients that are included in the denominators of PI03 (0-4 years) PI04 (60 months to less than 72 months) and PI09 (15 years and over) is larger than 40% of Indigenous regular clients with age and sex recorded. This is a query only as it is unlikely that this is the case

Action required if values need amending: Amend the applicable values to ensure the difference between the number of Indigenous regular clients with age and sex recorded and all clients that are included in the denominators of PI03 (0-4 years) PI04 (60 months to less than 72 months) and PI09 (15 years and over) is less than 40% of Indigenous regular clients with age and sex recorded. If the values are correct, please add a response against the applicable data validation flag explaining why

Issue 2 – Sum of clients with age or sex missing is larger than 20

TNATSIRC: Indigenous regular clients

	Indigenous clients without a sex or age recorded	Indigenous clients with a sex recorded but not an age	Indigenous clients with an age recorded but not a sex	Indigenous clients with both a sex and age recorded
Number of Indigenous regular clients	0	21	0	1526
Total	0	21	0	1526
	0%	1%	0%	

Notifications + New

Internal validation

For Row: Number of Indigenous regular clients; The sum of
- Indigenous clients with a sex recorded but not an age (Value=21)
- Indigenous clients without a sex or age recorded (Value=0)
- Indigenous clients with an age recorded but not a sex (Value=0)

should be less than 20.
Please confirm your data is correct or, if necessary, amend your data.

14/Jul/2020 09:42

AIHW rule: The sum of unknown age, unknown sex and unknown age and sex should be less than 20

Issue: The sum of the "*Indigenous clients without a sex or age recorded*", the "*Indigenous clients with a sex recorded but not an age*" and the "*Indigenous clients with both a sex and age recorded*" TOTALS values are greater than 20. This is a query only, as it is unlikely that there are a large number of clients without age and/or sex recorded

Action required if values need amending: Amend the values to ensure the applicable TOTALS values add up to be less than 20. If the values are correct, please add a response against the applicable data validation flag explaining why

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 issues these rules may generate could appear on any of the twenty four indicators included in the nKPI form.

For January 2021 nKPI reporting, time trend validations will be disabled for PI03, 07, 14 and 22.

- 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 more 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.