



Pacific Knowledge Systems

RippleDown: Web Auditor V 8.2

This document focuses on RippleDown Report Web Validator.

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Intended Use

The RippleDown Software is a decision support system intended to support staff of healthcare organisations in the auditing and/or interpretation of patient data and in the generation of patient reports and/or workflow actions. The criteria it applies is determined by subject matter experts employed by individual clients and is specific to each client site. The software does not contain any pre-programmed clinical information or any inherent diagnostic functionality.

The RippleDown Expert module is intended to be used purely as a decision support system that provides complementary reports for patient data to qualified individuals based upon established rules set up by relevant trained customer domain experts. It is intended that the clinicians receiving reports based on patient results will consider the report in conjunction with all current and previous patient history, and apply their own judgement when determining patient management. It is intended that the clinician does not rely solely on the existence of a report from RippleDown for the management of a patient.



It is the responsibility of the licensee to use the product in accordance with its intended use. In support of this, it is recommended domain experts include a statement consistent with the following on all reports.

“This report has been generated using clinical decision support software. This report is intended to provide adjunctive information only and should not replace clinical judgement.

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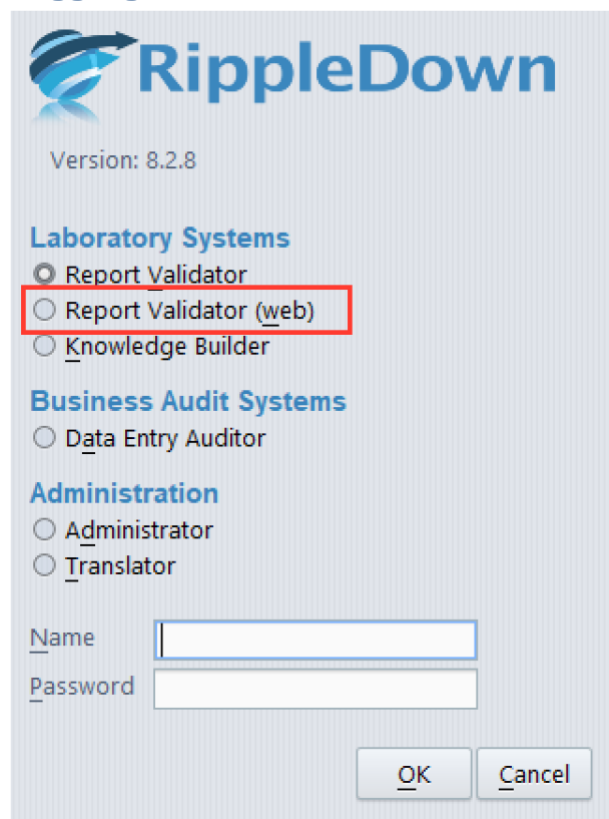
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Reporting using Web Validator

The Validator is a RippleDown component used for reviewing cases and their interpretive reports before they are released back to the Online Information System. Before approving a report, a Validator user is able to edit and correct a report if required. For a given RippleDown installation, some projects can be set up to use the Validator, whereas other projects may use the validation facilities provided by the Online Information System if required.

Logging into web validator.



The image shows a login dialog box for RippleDown. At the top is the RippleDown logo and the text "Version: 8.2.8". Below this are three sections of radio button options: "Laboratory Systems" with options "Report Validator" (selected), "Report Validator (web)" (highlighted with a red rectangle), and "Knowledge Builder"; "Business Audit Systems" with option "Data Entry Auditor"; and "Administration" with options "Administrator" and "Translator". At the bottom are two text input fields labeled "Name" and "Password", and two buttons labeled "OK" and "Cancel".

When launching the report validator there is a new option to use the web validator.

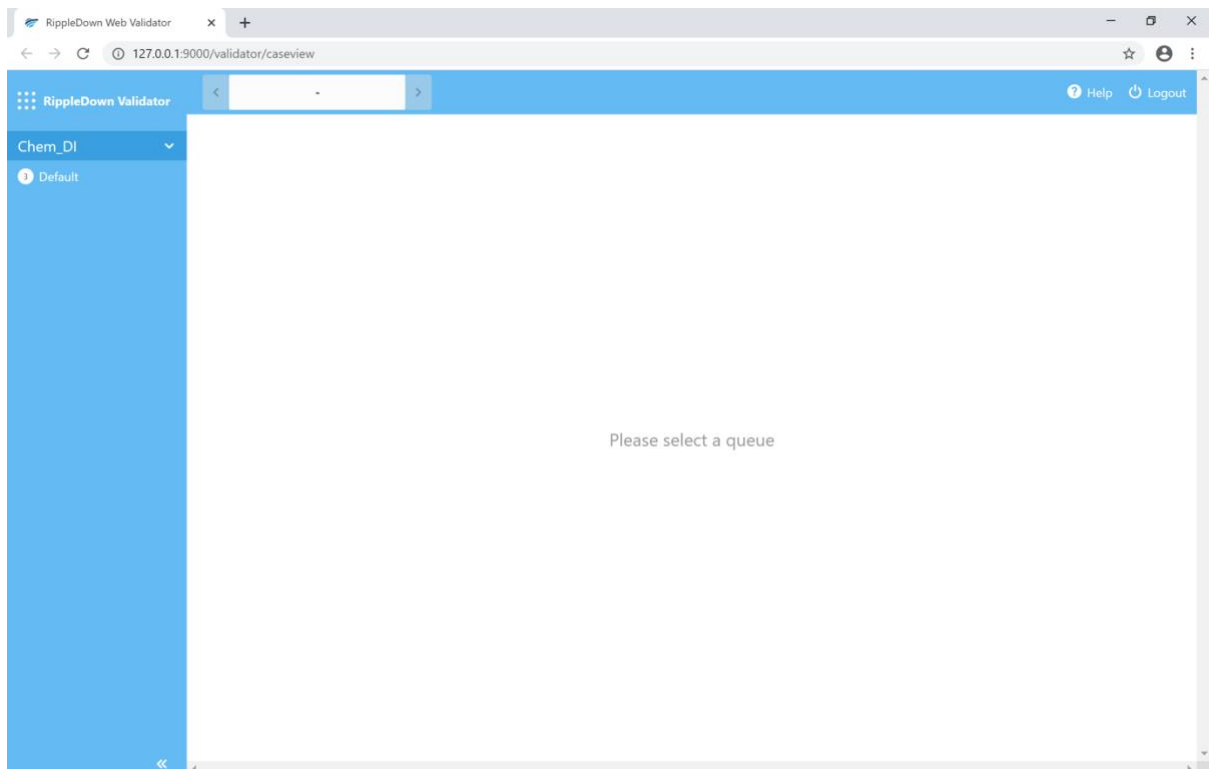
If web option is selected the web validator will open with the current default web browser installed on the PC.

Main Screen

The main screen of the Validator shows the list of queues. There is at least one queue for each project. In addition, there may be special-purpose queues that have been setup for the project, for example, to group particular types of cases. There may also be queues corresponding to users who have had cases referred to them by other Validator users. These special-purpose queues will only appear if there are cases waiting on them to be reviewed. As well as these queues, which are for reviewing cases prior to their release to the Online Information System, there may be Copy queues for the independent offline review of some or all cases.

Each queue shows the following information:

- The project name.
- The name of the queue within the project, e.g. the user name for a referred queue.
- The number of cases waiting on the queue.
- Any users that are currently reviewing the cases on the queue. Note, several users may review the same queue simultaneously. The RippleDown server will ensure that each case will only be reviewed by one user.



Reviewing a Case in web validator

To begin reviewing the cases in a queue, click on the required queue name. This will activate the Validator Case Viewer, in which individual cases on that queue are presented for your review.

The screen will contain the following information:

- A view of the data in the case.
- The patient's demographics
- The report given by the Knowledge Base.
- Any internal comments given by the Knowledge Base.
- Any notes added by another user (if this case has been referred)

The screenshot shows the 'RippleDown Validator' web application. The top navigation bar includes a search bar, help, and login options. The main content area is divided into several sections:

- Case Header:** Displays patient information: MRN: 29242, Given: SJBTJHNMV, Sex: F, Yrs: 62, DOB: 18 Jun 52. It also shows an 'Autovalidation level: 0%. The report is not allowed for autovalidation.' and buttons for 'Refer' and 'Accept'.
- Left Sidebar:** Contains a dropdown menu for 'Chem_DI' and a 'Default' button.
- Text Editor:** A large text area with 'Undo' and 'Redo' buttons. It contains a text report: 'HbA1c remains above the general target of < 7% (< 53 mmol/mol) for treated diabetes. NHF guidelines indicate this patient has increased absolute risk for CVD (>15% risk of CVD within 5 yrs). For info see www.cvdcheck.org.au.'
- Table:** A table with columns for 'Attribute', 'Range', and several dates: '5 Nov 2012', '4 Feb 2013', '28 May 2013', '29 Jun 2013', '7 Aug 2013', and '21 Nov 2013'. The table lists various lab results and their values.

Attribute	Range	5 Nov 2012 8:29 am	4 Feb 2013 8:20 am	28 May 2013 9:00 am	29 Jun 2013 4:00 pm	7 Aug 2013 8:10 am	21 Nov 2013 8:10 am
LabNumber		10971234	10968877	11388286	11598919	11388697	1175802
Cholesterol	< 5.5	6.1*	6.6*			6.4*	5.6*
Triglyceride	< 1.5	0.7	1.0			1.1	1.0
HDL	2.2		1.9				1.8
LDL	3.6*		4.2*				3.3
RandomGlucose					17.0*		
HbA1c	4.0-6.0	8.2*	8.2*	7.9*		7.7*	7.5*
TSH	0.40-4.0	2.51	2.89				2.59
CollectedDate		05 Nov 12	04 Feb 13	28 May 13	29 Jun 13	07 Aug 13	21 Nov 13
Notes		WT LOSS, TYPE 1 DIA...	T1DM	T1DM	HEADACHE/ DISCOM...	T1DM	TDM1
Ordered		LFT, UE, LIPP, TFT, GH...	UE, LIPP, TFT, GHB, M...	GHB	UE, RGLU	CT, GHB	UE, LIPP

Reason for reviewing current Case

The reason why the current case was queued to the Validator is shown in between the case view and the interpretation panel.

The reasons include:

- The report has not yet been allowed for autovalidation.
- One of the report sections has not yet been allowed for autovalidation, if the autovalidation policy is based on report sections.
- The report has an autovalidation level of less than 100%.
- There is an autovalidation setting given for the case, with a level of less than 100%.
- The report has an internal comment.
- The report has an unevaluated expression or an untranslated comment.

Show Conditions for the Interpretation in web validator

The conditions used in the knowledge base to add the individual comments to the report can be viewed by selecting the Conditions tab. The conditions will be displayed just as they are in the Knowledge Builder

The screenshot shows the RippleDown Web Validator interface. The top bar includes the application name, a search bar, and a 'Logout' button. The main area is divided into a left sidebar with a 'Default' tab and a central workspace. The workspace contains a text area with a comment about HbA1c and a right-hand pane with tabs for 'Notes' and 'Conditions'. The 'Conditions' tab is selected and highlighted with a red box. A red arrow points from the text above to this tab. Below the tabs is a table with columns for dates and times, and rows for various attributes and doctor details.

Attribute	Range	13 m	28 May 2013 9:00 am	29 Jun 2013 4:00 pm	7 Aug 2013 8:10 am	21 Nov 2013 8:25 am	3 Oct 2014 8:20 am
HIL Index				111			
Hemolysis				1			
Bilirubin							
ALP							
GGT							
Albumin							
Total Protein							
▼ Doctor Details							
Specialty			CPENDO	GP	CPENDO	CPENDO	CPENDO
RefDrCode			KAYJ/W	WOOM-M	KAYJ/W	KAYJ/W	KAYJ/W
CopyDrSpecialty				GP			
RefDr			Ga Tovf Yoqv	Oz Jeqvsa Ndaxwvf ...	Mf Dtlk Hjdk	Ho Jsir Udd	Tw Xzm Jigi
CopyDr				Zp Puchhq Oeacodn			
CopyDrCode				STAC/M			
▼ User Defined Fields							

Approving the Interpretation web validator

If you are satisfied that the current report is suitable for release, simply press the Accept button which will send that report back to the Online Information System with a flag indicating that the report is ready for release.

The screenshot shows the RippleDown Web Validator interface. At the top, there's a navigation bar with 'RippleDown Validator' and a search bar. Below that, a patient summary bar shows 'MRN: 29242', 'Given: SJBTJHNMV', 'Sex: F', 'Yrs: 62', and 'DOB: 18 Jun 52'. To the right of this bar are 'Refer' and 'Accept' buttons. The 'Accept' button is highlighted with a red box. A red arrow points from the text above to this button.

Below the patient summary, there's a text area with a note: 'HbA1c remains above the general target of < 7% (< 53 mmol/mol) for treated diabetes. NHF guidelines indicate this patient has increased absolute risk for CVD (>15% risk of CVD within 5 yrs). For info see www.cvdcheck.org.au.'

Below the text area is a table of test results. The table has columns for 'Attribute', 'Range', and several dates: '5 Nov 2012', '4 Feb 2013', '28 May 2013', '29 Jun 2013', '7 Aug 2013', and '21 Nov 2013'. The table contains various test results, including Cholesterol, Triglyceride, HDL, LDL, Random Glucose, HbA1c, TSH, and eGFR.

Attribute	Range	5 Nov 2012	4 Feb 2013	28 May 2013	29 Jun 2013	7 Aug 2013	21 Nov 2013
LabNumber		10971234	10968877	11388286	11598919	11388697	1175802
Cholesterol	< 5.5	6.1*	6.6*			6.4*	5.6*
Triglyceride	< 1.5	0.7	1.0			1.1	1.0
HDL	2.2	1.9	1.9				1.8
LDL	3.6*	4.2*					3.3
Random Glucose					17.0*		
HbA1c	4.0-6.0	8.2*	8.2*	7.9*		7.7*	7.5*
TSH	0.40-4...	2.51	2.89				2.59
CollectedDate		05 Nov 12	04 Feb 13	28 May 13	29 Jun 13	07 Aug 13	21 Nov 1
Notes		WT LOSS, TYPE 1 DIA...	T1DM	T1DM	HEADACHE/ DISCOM...	T1DM	TDM1
Ordered		LFT, UE, LIPP, TFT, GH...	UE, LIPP, TFT, GHB, M...	GHB	UE, RGLU	CT, GHB	UE, LIPP
Secondary Tests							
eGFR		81	77		55		64
HbA1c_JFCC	20-42	66*	66*	62*		61*	59*
Sodium	136-1...	139	139		143		138
Urea	2.9-8.2	6.3	6.7		6.8		7.0
ET4	0-70	15	15				15

If the current report needs some modification before it can be released, edit the interpretation as required. If a complete comment needs to be added, you can pick from the list of existing comments using the Insert comment button.

MRN: 29242 Given: SJBTJHNMV Sex: F Yrs: 62 DOB: 18 Jun 52

Autovalidation level: 0%. The report is not allowed for autovalidation.

Interpretation: HbA1c remains above the general target of < 7% (< 53 mmol/mol) for treated diabetes. NHF guidelines indicate this patient has increased absolute risk for CVD (>15% risk of CVD within 5 yrs). For info see www.cvdcheck.org.au.

Attribute	Range	5 Nov 2012 8:29 am	4 Feb 2013 8:20 am	28 May 2013 9:00 am	29 Jun 2013 4:00 pm	7 Aug 2013 8:10 am	21 Nov 2013 8:10 am
LabNumber		10971234	10968877	11388286	11598919	11388697	1175802
Cholesterol	< 5.5	6.1*	6.6*			6.4*	5.6*
Triglyceride	< 1.5	0.7	1.0			1.1	1.0
HDL		2.2	1.9				1.8
LDL		3.6*	4.2*				3.3
RandomGlucose					17.0*		
HbA1c	4.0-6.0	8.2*	8.2*	7.9*		7.7*	7.5*
TSH	0.40-4...	2.51	2.89				2.59
CollectedDate		05 Nov 12	04 Feb 13	28 May 13	29 Jun 13	07 Aug 13	21 Nov 1
Notes		WT LOSS, TYPE 1 DIA...	T1DM	T1DM	HEADACHE/ DISCOM...	T1DM	TDM1
Ordered		LFT, UE, LIPP, TFT, GH...	UE, LIPP, TFT, GH, M...	GHB	UE, RGLU	CT, GHB	UE, LIPP
Secondary Tests							
eGFR		81	77		55		64
HbA1c_JFCC	20-42	66*	66*	62*		61*	59*
Sodium	136-1...	139	139		143		138
Urea	2.9-8.2	6.3	6.7		6.8		7.0
ET4	0-20	15	15				15

NOTE: From September 2012 we have updated the Heart Foundation recommended targets for LDL Cholesterol in high risk individuals.

- ** Dont autovalidate **
- ** Female on metformin. ? diabetic or PCOS **
- ** IS ACR PENDING? (THERE IS A BIOOUT) ***
- ** NOTE POSSIBLY HYPOTHYROID. LAST TSH HIGH ***
- ** NOTE YOUNG CHILD ***
- ** TWO GLUCOSE RESULTS REPORTED **
- *** DIFFERENT FASTING GLUCOSE LEVELS REPORTED, PLEASE AMEND ***
- *** GLUCOSE TEST SET ***
- *** LOW 2 HR GLUCOSE ***
- *** LOW FASTING GLUCOSE ***
- *** NOTE HIGH HDL ***
- *** NOTE LDL > 6.4 GIVES 5 POINTS FOR FH ***
- *** NOTE LDL >= 8.0 ***

Once the edited report is ready for release, press the accept with change button. You will then be asked to add a note as to why the report was changed. Once you press accept with changes, the edited report will be sent back to the Online Information System with a flag indicating that it is ready for release. A copy of the case, with your reason for change, will be sent to the Rejected queue in the Knowledge Builder. The Knowledge Builder user will then be able to update the Knowledge Base (i.e. the project) so that subsequent reports for this type of case will be correct.

Note inserted here

☒ Also send to the Knowledge Builder

Cancel

Accept with Change

RippleDown Web Validator
127.0.0.1:9000/validator/caseview
Search Help Logout

RippleDown Validator
11289023
Autovalidation level: 0%. The report is not allowed for autovalidation.

Chem_DI
 Default

MRN: 29242 Given: SJBTJHNMV Sex: F Yrs: 62 DOB: 18 Jun 52

Refer

Accept with Change

Undo Redo

HbA1c remains above the general target of < 7% (< 53 mmol/mol) for treated diabetes. NHF guidelines indicate this patient has increased absolute risk for CVD (>15% risk of CVD within 5 yrs). For info see www.cvdcheck.org.au. ** Dont autovalidate **

Notes Conditions

Attribute	Range	13 m	28 May 2013 9:00 am	29 Jun 2013 4:00 pm	7 Aug 2013 8:10 am	21 Nov 2013 8:25 am	3 Oct 2014 8:20 am
LabNumber			11388286	11598919	11388697	11758022	11289023
Cholesterol	< 5.5				6.4*	5.6*	6.0*
Triglyceride	< 1.5				1.1	1.0	0.6
HDL						1.8	
LDL						3.3	
RandomGlucose				17.0*			
HbA1c	4.0-6.0		7.9*		7.7*	7.5*	7.9*
TSH	0.40-4...				2.59		3.68
CollectedDate			28 May 13	29 Jun 13	07 Aug 13	21 Nov 13	03 Oct 14
Notes			T1DM	HEADACHE/ DISCOM...	T1DM	TDM1	T2DM
Ordered			GHB, M...	GHB	UE, RGLU	CT, GHB	UE, CT, TFT, GHB, MALB
Secondary Tests							
eGFR				55		64	74
HbA1c_JFCC	20-42		62*		61*	59*	63*
Sodium	136-1...			143		138	138

Once you have approved a report, it will immediately be sent back to the Online Information System. If you believe that you might have mistakenly approved an inappropriate report, contact your System Administrator immediately.

Referring a Case with web validator

If there is another validator user who should check the report, the case can be referred to that person's queue. Click the Refer button and then select a specific user's queue. Your IT administrator can associate an email address with each user so that the user is informed by email of the arrival of a case in their queue.

The screenshot shows the RippleDown Web Validator interface. At the top, there's a navigation bar with 'RippleDown Validator' and a search bar. Below this, a case summary is displayed: MRN: 29242, Given: SJBTJHNMV, Sex: F, Yrs: 62, DOB: 18 Jun 52. A red box highlights the 'Refer' button next to the 'Accept' button. Below the summary, there's a text area with a note: 'HbA1c remains above the general target of < 7% (< 53 mmol/mol) for treated diabetes. NHF guidelines indicate this patient has increased absolute risk for CVD (>15% risk of CVD within 5 yrs). For info see www.cvdcheck.org.au.' Below the text area is a table with columns for Attribute, Range, and several dates: 5 Nov 2012, 4 Feb 2013, 28 May 2013, 29 Jun 2013, 7 Aug 2013, and 21 Nov 2013. The table contains various lab results and notes.

The screenshot shows the same interface as the previous one, but with a 'Refer' dialog box open. The dialog box has a 'Refer to:' field with a dropdown menu showing 'admin'. Below this is a 'Note:' field. At the bottom of the dialog box, there's a checkbox labeled 'Notify by email (if email address supplied)' and two buttons: 'Cancel' and 'Refer'.

Skipping /Previous cases web validator

If you wish to deal with a case at another time (e.g when some pending tests have been completed you can press the forward button. The case will be available next time you review the queue.

If you press the back button, you can look at the previously approved, referred or skipped cases.

Please note, you will not be able to change a report that you had previously approved or referred.

Click the arrows to navigate forward or back between cases.

The screenshot shows the RippleDown Web Validator interface. At the top, there's a navigation bar with a back arrow and a forward arrow, both highlighted with red boxes and arrows pointing to them. The patient ID 11289023 is displayed in the center. To the right, there's a status bar indicating 'Autovalidation level: 0%. The report is not allowed for autovalidation.' and buttons for 'Refer' and 'Accept'.

Below the navigation bar, there's a section for patient information: MRN: 29242, Given: SJBTJHNMV, Sex: F, Yrs: 62, DOB: 18 Jun 52. There are also buttons for 'Refer' and 'Accept'.

The main area contains a text editor with 'Undo' and 'Redo' buttons, and a text area with the following text: 'HbA1c remains above the general target of < 7% (< 53 mmol/mol) for treated diabetes. NHF guidelines indicate this patient has increased absolute risk for CVD (>15% risk of CVD within 5 yrs). For info see www.cvdcheck.org.au.'

Below the text area, there's a table of lab results. The table has columns for 'Attribute', 'Range', and several dates: '5 Nov 2012', '4 Feb 2013', '28 May 2013', '29 Jun 2013', '7 Aug 2013', and '21 Nov 2013'. The table contains various lab results including Cholesterol, Triglyceride, HDL, LDL, Random Glucose, HbA1c, TSH, Collected Date, Notes, Ordered, Secondary Tests, eGFR, HbA1c_JFCC, Sodium, Urea, and ET4.

Finding a case using web validator

To find a case using the web validator, click the search button. This will open a dialogue box and allows you can search by case number

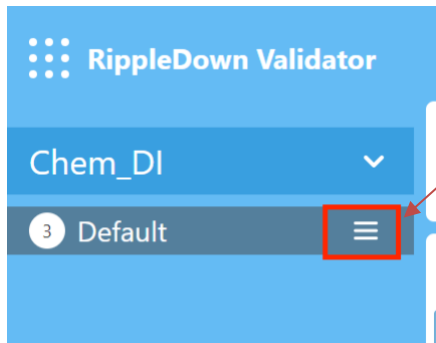
The screenshot shows the RippleDown Web Validator interface. At the top, there is a search bar with the text "11289023" and a "Search" button highlighted with a red box. Below the search bar, there is a table of test results for a patient with MRN: 29242, Given: SJBTJHNMV, Sex: F, Yrs: 62, DOB: 18 Jun 52. The table includes columns for Attribute, Range, and various test dates from 5 Nov 2012 to 21 Nov 2013. The table is filtered by "Cholesterol" and "HbA1c".

Attribute	Range	5 Nov 2012 8:29 am	4 Feb 2013 8:20 am	28 May 2013 9:00 am	29 Jun 2013 4:00 pm	7 Aug 2013 8:10 am	21 Nov 2013 8:10 am
LabNumber		10971234	10968877	11388286	11598919	11388697	1175802
Cholesterol	< 5.5	6.1*	6.6*			6.4*	5.6*
Triglyceride	< 1.5	0.7	1.0			1.1	1.0
HDL		2.2	1.9				1.8
LDL		3.6*	4.2*				3.3
RandomGlucose					17.0*		
HbA1c	4.0-6.0	8.2*	8.2*	7.9*		7.7*	7.5*
TSH	0.40-4.0	2.51	2.89				2.59
CollectedDate		05 Nov 12	04 Feb 13	28 May 13	29 Jun 13	07 Aug 13	21 Nov 13
Notes		WT LOSS, TYPE 1 DIA...	T1DM	T1DM	HEADACHE/ DISCOM...	T1DM	TDM1
Ordered		LFT, UE, LIPP, TFT, GH...	UE, LIPP, TFT, GH, M...	GHB	UE, RGLU	CT, GHB	UE, LIPP,
Secondary Tests							
eGFR		81	77		55		64
HbA1c_JFCC	20-42	66*	66*	62*		61*	59*
Sodium	136-140	139	139		143		138
Urea	2.9-8.2	6.3	6.7		6.8		7.0
ET1	0-20	15	15				15

The screenshot shows the RippleDown Web Validator interface with a search dialog box open. The dialog box contains a list of case numbers: 11289023, 12696189, and 12696211. The "11289023" case number is selected. The dialog box has "Cancel" and "Submit" buttons. The background interface is dimmed, showing the same patient information and test results as the previous screenshot.

Deleting Cases using web validator

To delete cases using the web validator, click the icon next to your queue name.



This will open a purge queue screen. You can select:

- Delete current case
- Delete all cases
- Delete cases that are more than x number of days

