

Pacific Knowledge Systems

RippleDown: Web Report Validator V 8.3

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 and include the basis for any recommendation made.

“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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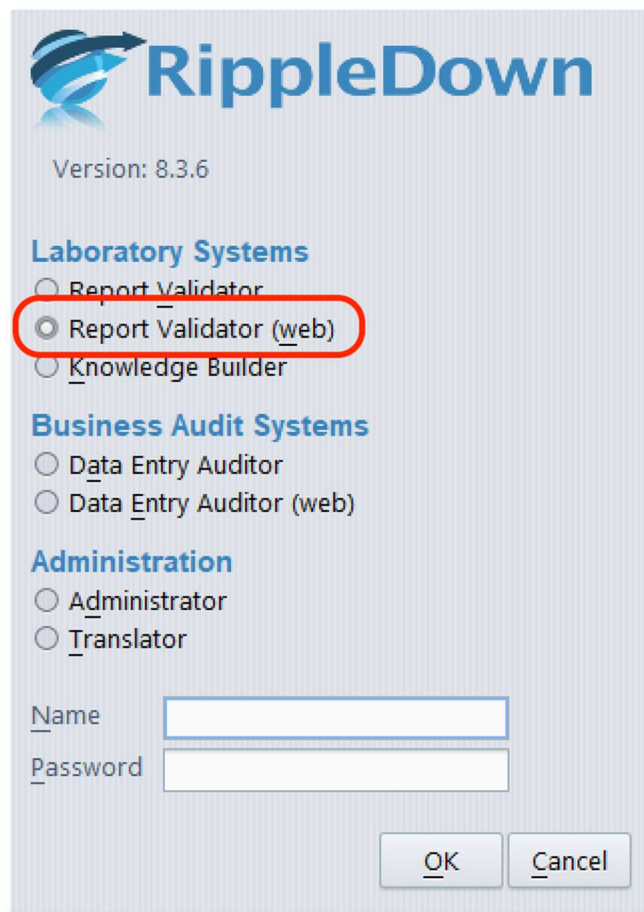
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Reporting using Web Validator

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.



RippleDown
Version: 8.3.6

Laboratory Systems

- Report Validator
- Report Validator (web)
- Knowledge Builder

Business Audit Systems

- Data Entry Auditor
- Data Entry Auditor (web)

Administration

- Administrator
- Translator

Name

Password

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

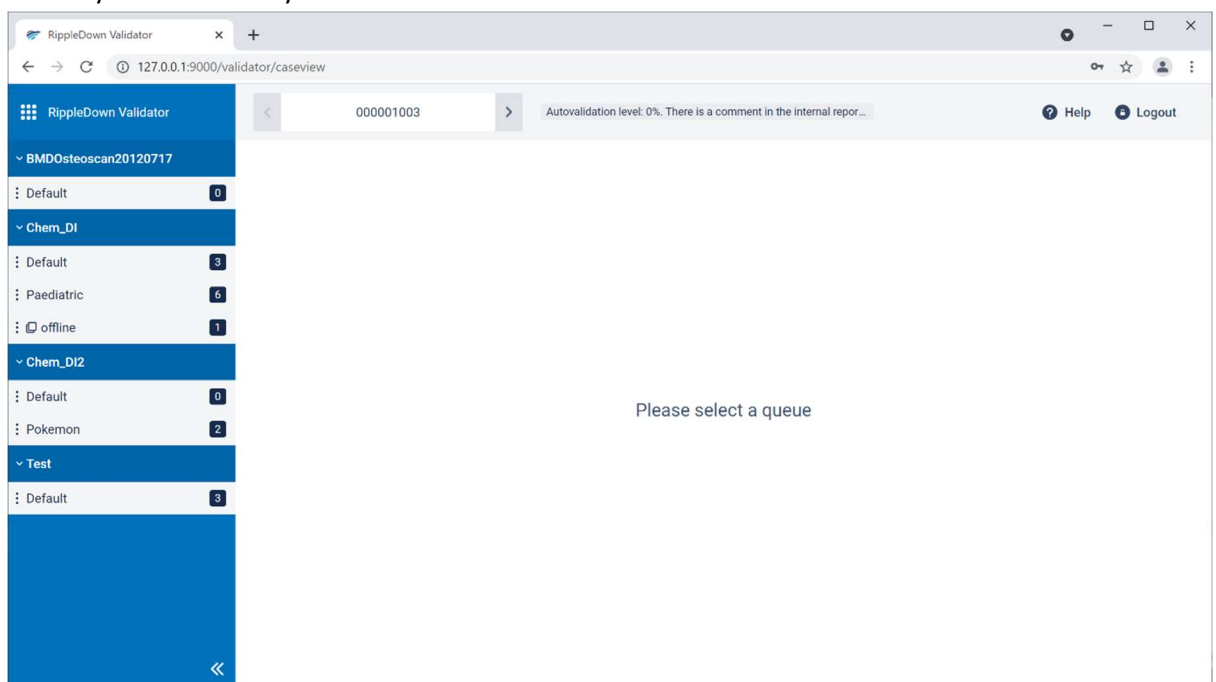
If web option is selected the web validator will open with the current default web browser installed on the PC.

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.

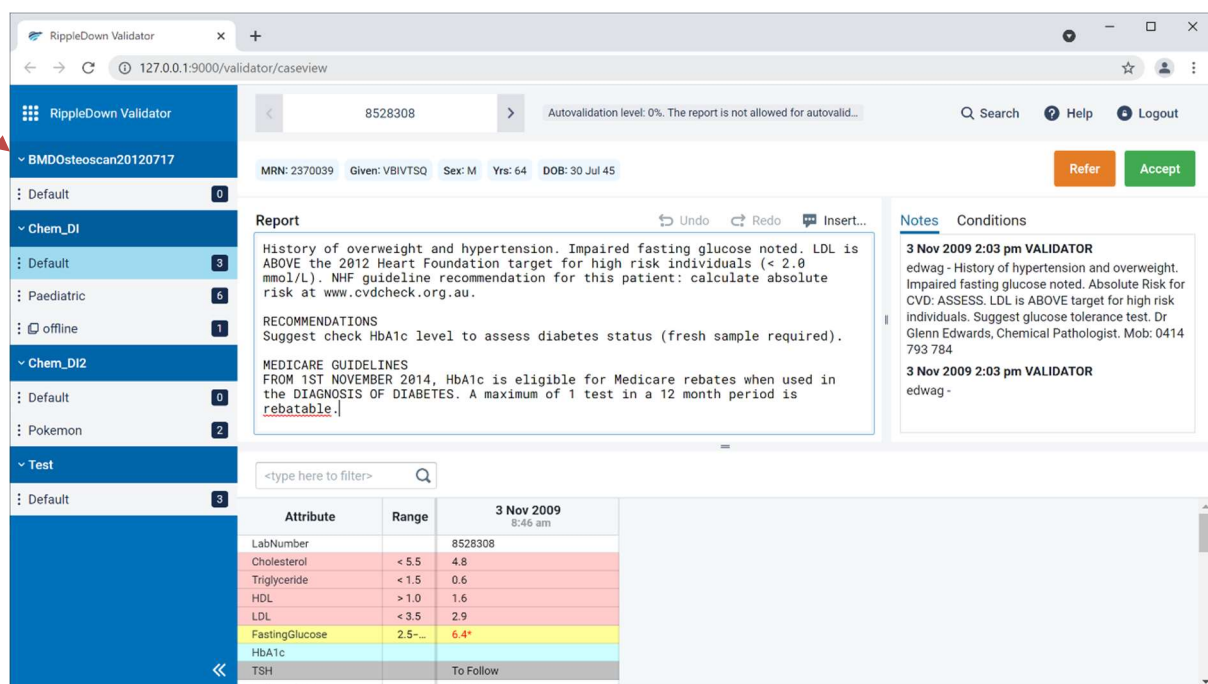


Reviewing a Case in web validator

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 interface. The browser address bar displays "127.0.0.1:9000/validator/caseview". The page title is "RippleDown Validator". The patient ID is "8528308". The patient information section shows MRN: 2370039, Given: VBIVTSQ, Sex: M, Yrs: 64, and DOB: 30 Jul 45. The report section contains the following text:

History of overweight and hypertension. Impaired fasting glucose noted. LDL is ABOVE the 2012 Heart Foundation target for high risk individuals (< 2.0 mmol/L). NHF guideline recommendation for this patient: calculate absolute risk at www.cvdcheck.org.au.

RECOMMENDATIONS
Suggest check HbA1c level to assess diabetes status (fresh sample required).

MEDICARE GUIDELINES
FROM 1ST NOVEMBER 2014, HbA1c is eligible for Medicare rebates when used in the DIAGNOSIS OF DIABETES. A maximum of 1 test in a 12 month period is rebatable.

The table below shows the lab results:

Attribute	Range	3 Nov 2009 8:46 am
LabNumber		8528308
Cholesterol	< 5.5	4.8
Triglyceride	< 1.5	0.6
HDL	> 1.0	1.6
LDL	< 3.5	2.9
FastingGlucose	2.5-...	6.4*
HbA1c		
TSH		To Follow
CollectedDate		03 Nov 09

Reason for reviewing current Case

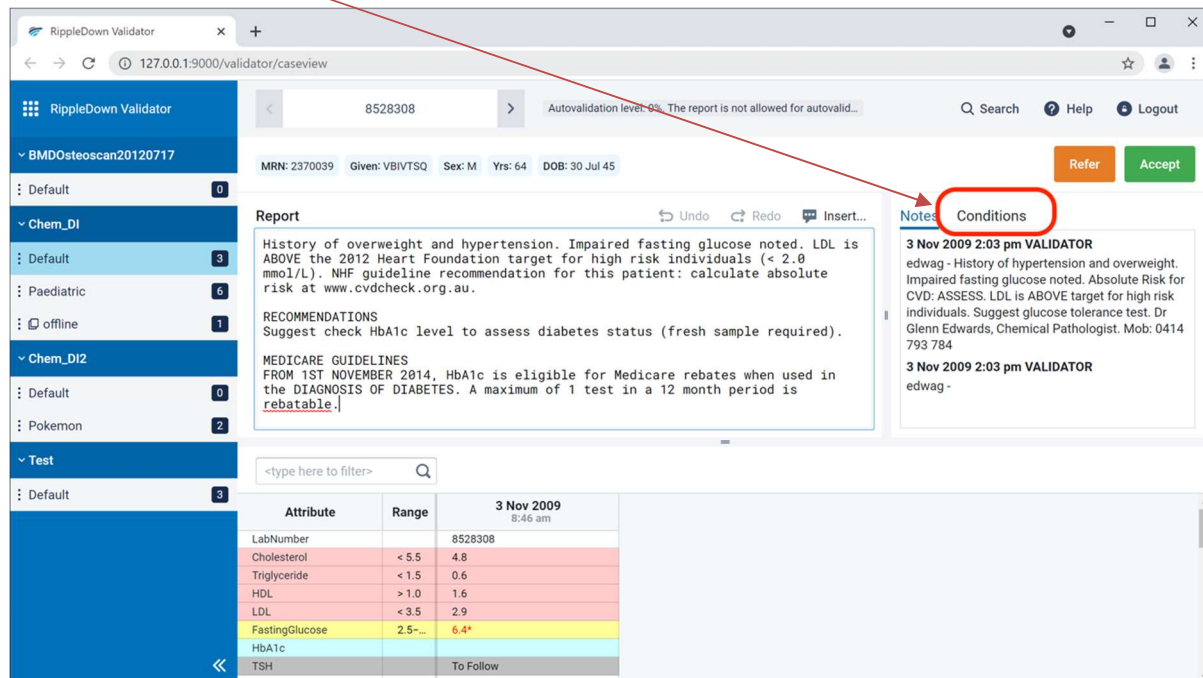
The reason why the current case was queued to the Validator is shown in between the case view and the interpretation panel.

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 Validator interface. The 'Conditions' tab is selected in the Notes panel on the right. The main report area contains the following text:

History of overweight and hypertension. Impaired fasting glucose noted. LDL is ABOVE the 2012 Heart Foundation target for high risk individuals (< 2.0 mmol/L). NHF guideline recommendation for this patient: calculate absolute risk at www.cvdcheck.org.au.

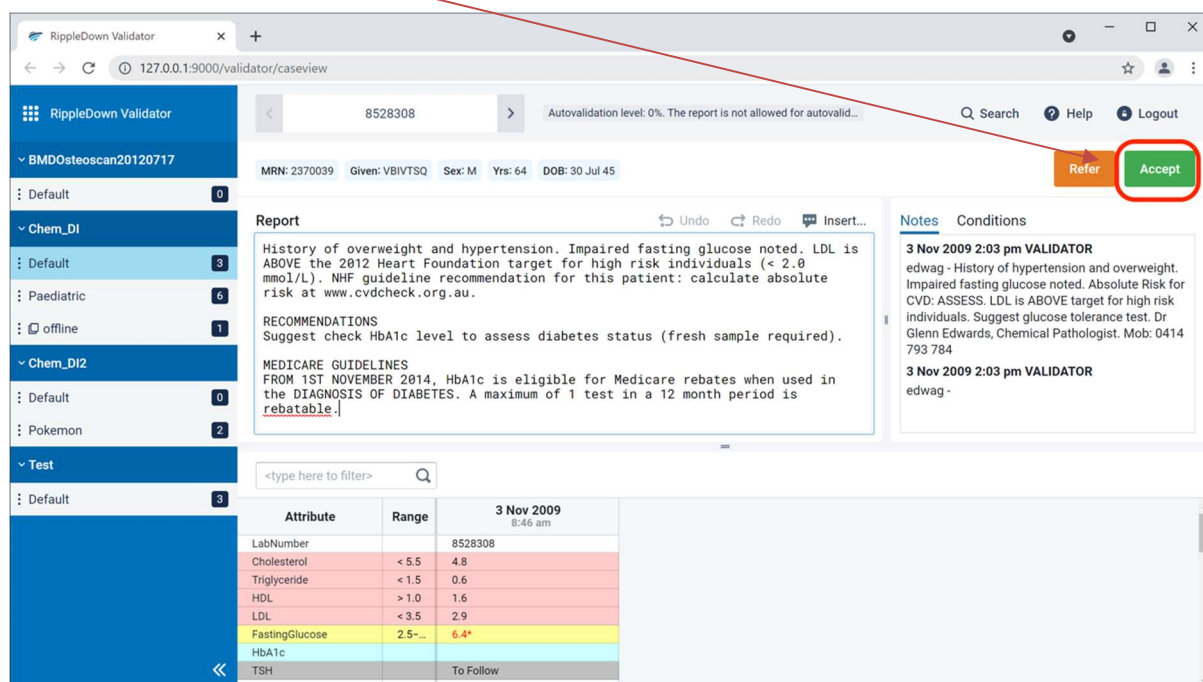
RECOMMENDATIONS
Suggest check HbA1c level to assess diabetes status (fresh sample required).

MEDICARE GUIDELINES
FROM 1ST NOVEMBER 2014, HbA1c is eligible for Medicare rebates when used in the DIAGNOSIS OF DIABETES. A maximum of 1 test in a 12 month period is rebateable.

Attribute	Range	3 Nov 2009 8:46 am
LabNumber		8528308
Cholesterol	< 5.5	4.8
Triglyceride	< 1.5	0.6
HDL	> 1.0	1.6
LDL	< 3.5	2.9
FastingGlucose	2.5-...	6.4*
HbA1c		
TSH		To Follow
CollectedDate		03 Nov 09

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 Validator interface. The 'Accept' button is highlighted in the top right corner. The main report area contains the following text:

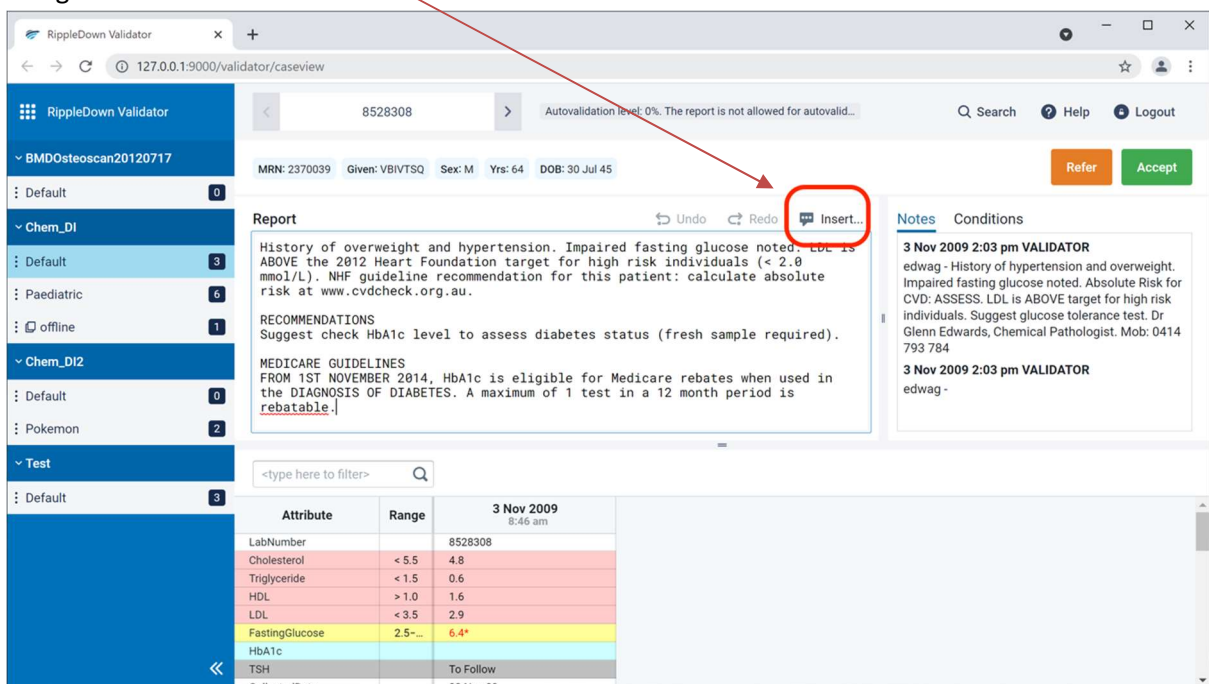
History of overweight and hypertension. Impaired fasting glucose noted. LDL is ABOVE the 2012 Heart Foundation target for high risk individuals (< 2.0 mmol/L). NHF guideline recommendation for this patient: calculate absolute risk at www.cvdcheck.org.au.

RECOMMENDATIONS
Suggest check HbA1c level to assess diabetes status (fresh sample required).

MEDICARE GUIDELINES
FROM 1ST NOVEMBER 2014, HbA1c is eligible for Medicare rebates when used in the DIAGNOSIS OF DIABETES. A maximum of 1 test in a 12 month period is rebateable.

Attribute	Range	3 Nov 2009 8:46 am
LabNumber		8528308
Cholesterol	< 5.5	4.8
Triglyceride	< 1.5	0.6
HDL	> 1.0	1.6
LDL	< 3.5	2.9
FastingGlucose	2.5-...	6.4*
HbA1c		
TSH		To Follow
CollectedDate		03 Nov 09

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.



The screenshot shows the 'RippleDown Validator' web application. The patient ID is 8528308. The report text area contains the following text:

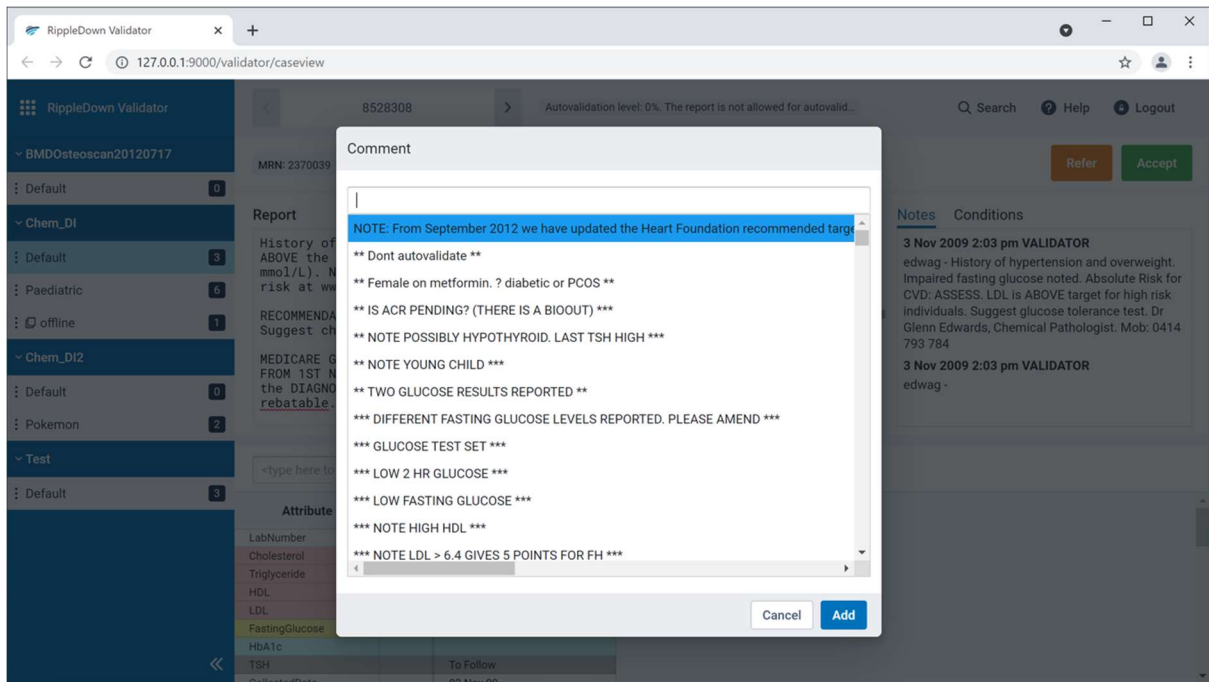
History of overweight and hypertension. Impaired fasting glucose noted. LDL is ABOVE the 2012 Heart Foundation target for high risk individuals (< 2.0 mmol/L). NHF guideline recommendation for this patient: calculate absolute risk at www.cvdcheck.org.au.

RECOMMENDATIONS
Suggest check HbA1c level to assess diabetes status (fresh sample required).

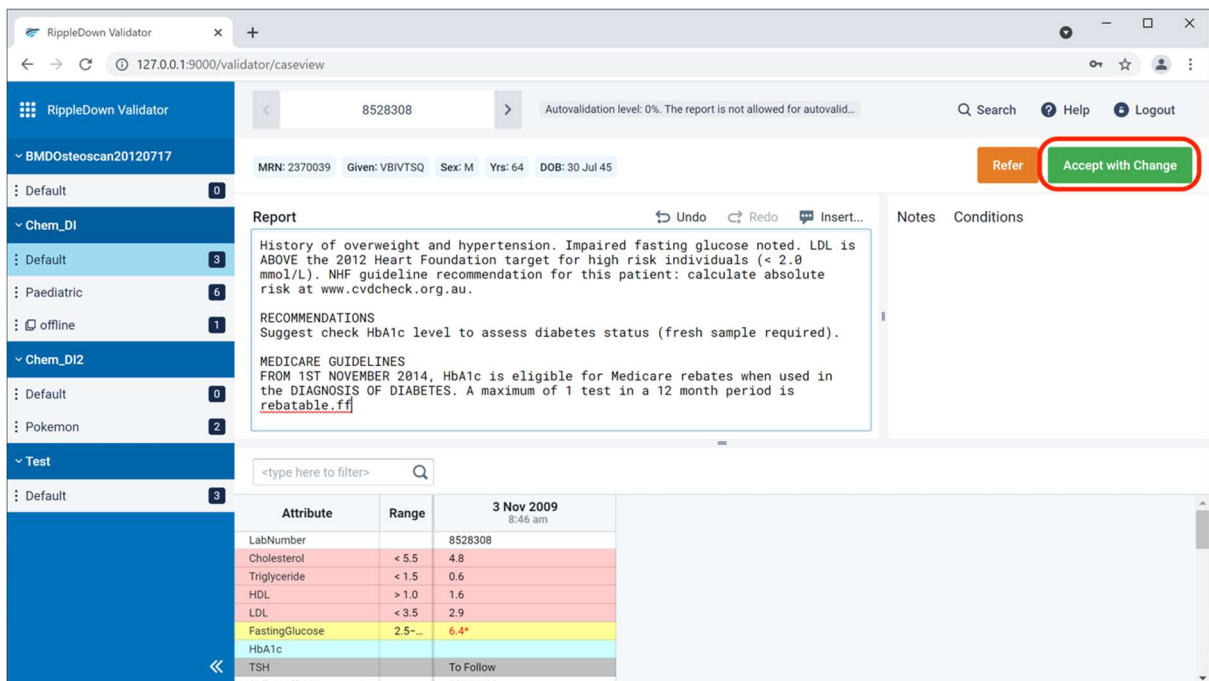
MEDICARE GUIDELINES
FROM 1ST NOVEMBER 2014, HbA1c is eligible for Medicare rebates when used in the DIAGNOSIS OF DIABETES. A maximum of 1 test in a 12 month period is rebatable.

The table below shows lab results for 3 Nov 2009 at 8:46 am:

Attribute	Range	3 Nov 2009 8:46 am
LabNumber		8528308
Cholesterol	< 5.5	4.8
Triglyceride	< 1.5	0.6
HDL	> 1.0	1.6
LDL	< 3.5	2.9
FastingGlucose	2.5-...	6.4*
HbA1c		
TSH		To Follow
CollectedDate		03 Nov 09



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.



Notes

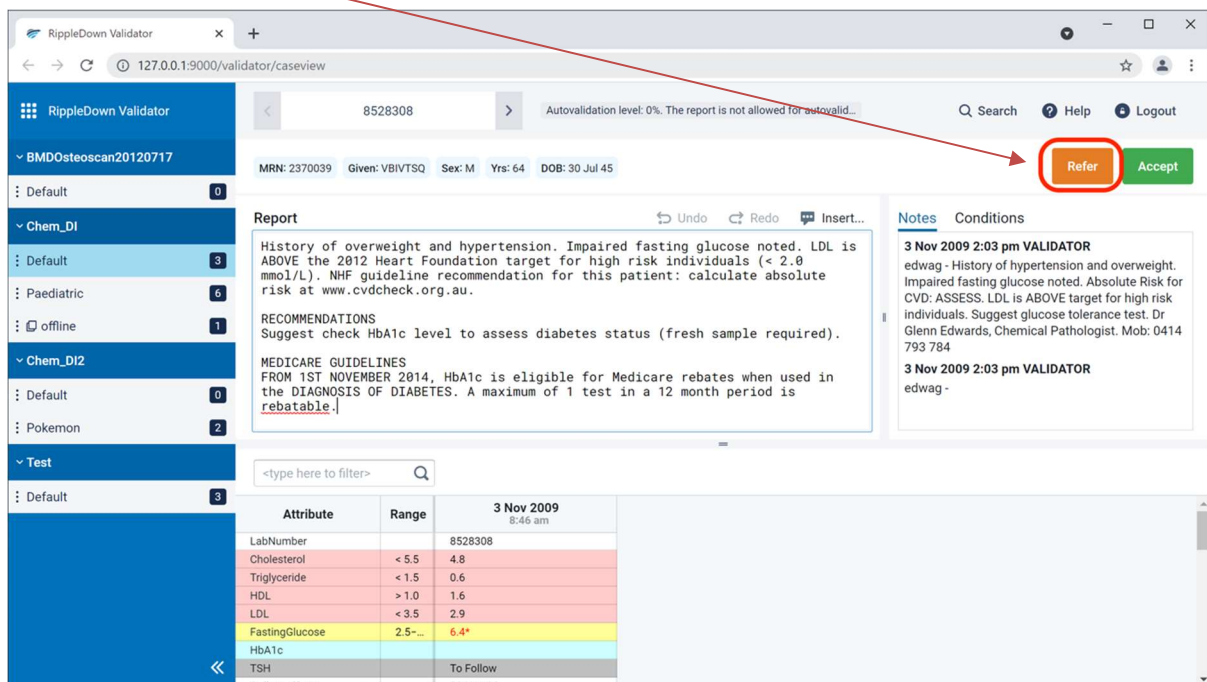
note inserted here

Also send to the Knowledge Builder

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 Validator' web application. The main content area displays a patient report for MRN: 2370039. The report text includes: "History of overweight and hypertension. Impaired fasting glucose noted. LDL is ABOVE the 2012 Heart Foundation target for high risk individuals (< 2.0 mmol/L). NHF guideline recommendation for this patient: calculate absolute risk at www.cvdcheck.org.au." and "RECOMMENDATIONS Suggest check HbA1c level to assess diabetes status (fresh sample required).". Below the report is a table of test results for 3 Nov 2009 8:46 am:

Attribute	Range	3 Nov 2009 8:46 am
LabNumber		8528308
Cholesterol	< 5.5	4.8
Triglyceride	< 1.5	0.6
HDL	> 1.0	1.6
LDL	< 3.5	2.9
FastingGlucose	2.5-...	6.4*
HbA1c		
TSH		To Follow
CollectedDate		03 Nov 09

At the top right of the report area, there are two buttons: 'Refer' (highlighted with a red circle and an arrow) and 'Accept'.

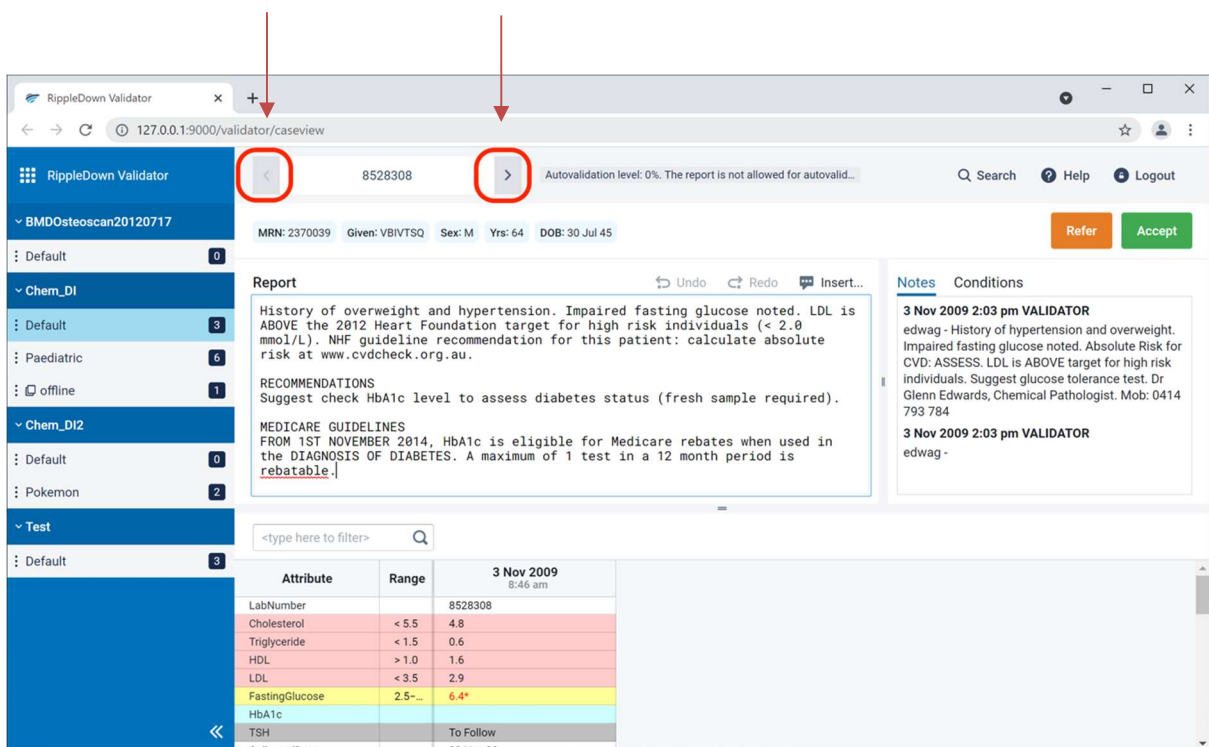
Skipping /Previous cases web validator

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 Validator web interface. At the top, there are navigation arrows (left and right) highlighted with red circles and arrows pointing to them from above. The interface displays patient information for case 8528308, including MRN: 2370039, Given: VBIVTSQ, Sex: M, Yrs: 64, and DOB: 30 Jul 45. The main content area shows a report with the following text:

Report

History of overweight and hypertension. Impaired fasting glucose noted. LDL is ABOVE the 2012 Heart Foundation target for high risk individuals (< 2.0 mmol/L). NHF guideline recommendation for this patient: calculate absolute risk at www.cvdcheck.org.au.

RECOMMENDATIONS
Suggest check HbA1c level to assess diabetes status (fresh sample required).

MEDICARE GUIDELINES
FROM 1ST NOVEMBER 2014, HbA1c is eligible for Medicare rebates when used in the DIAGNOSIS OF DIABETES. A maximum of 1 test in a 12 month period is rebatable.

On the right side, there are notes and conditions. The notes include:

3 Nov 2009 2:03 pm VALIDATOR
edwag - History of hypertension and overweight. Impaired fasting glucose noted. Absolute Risk for CVD: ASSESS. LDL is ABOVE target for high risk individuals. Suggest glucose tolerance test. Dr Glenn Edwards, Chemical Pathologist. Mob: 0414 793 784

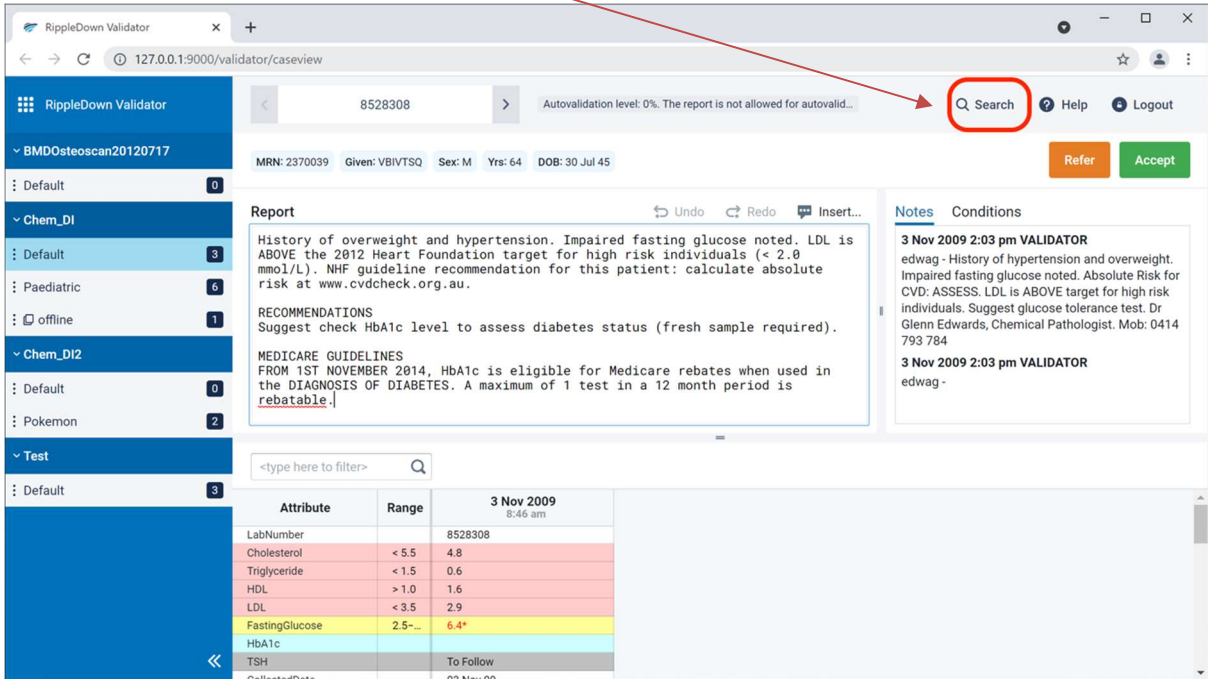
3 Nov 2009 2:03 pm VALIDATOR
edwag -

At the bottom, there is a table of test results:

Attribute	Range	3 Nov 2009 8:46 am
LabNumber		8528308
Cholesterol	< 5.5	4.8
Triglyceride	< 1.5	0.6
HDL	> 1.0	1.6
LDL	< 3.5	2.9
FastingGlucose	2.5-...	6.4*
HbA1c		
TSH		To Follow
CollectedDate		03 Nov 09

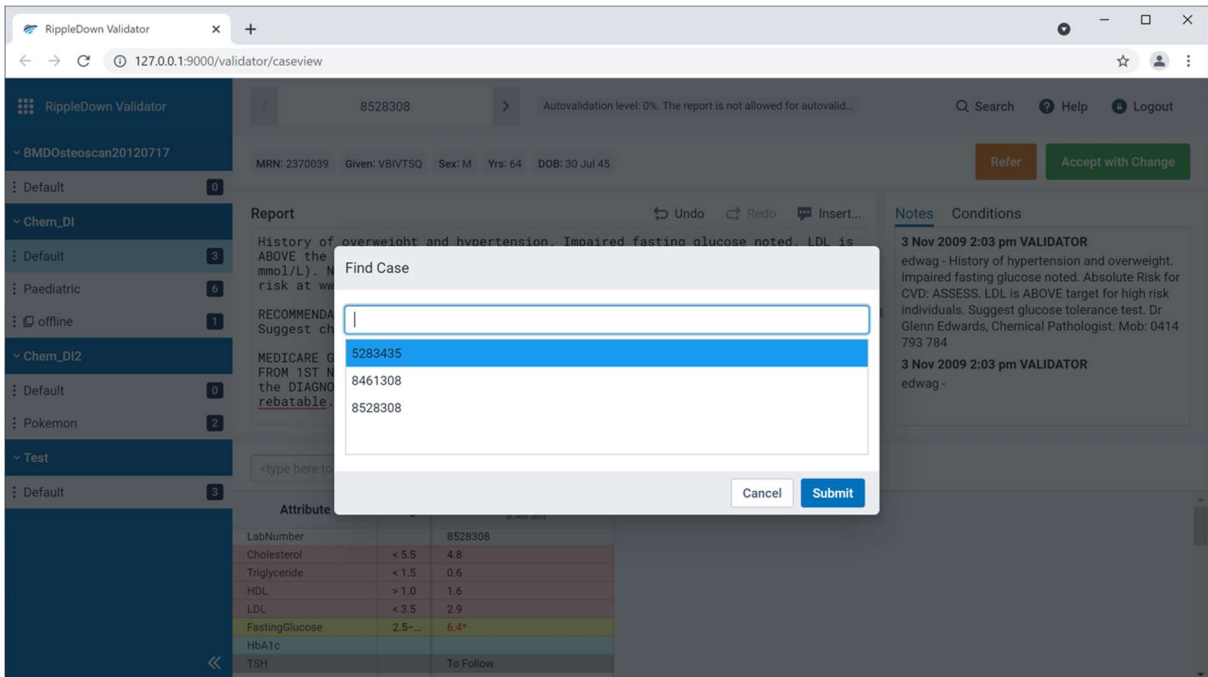
Finding a case using web validator

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 Validator web interface. The search button, represented by a magnifying glass icon, is circled in red. The interface displays patient information (MRN: 2370039, Given: VBIVTSQ, Sex: M, Yrs: 64, DOB: 30 Jul 45) and a report section. The report includes a history of overweight and hypertension, impaired fasting glucose, and LDL levels above the 2012 Heart Foundation target. Recommendations suggest checking HbA1c levels. The report also mentions Medicare guidelines for diabetes diagnosis. A table of lab results is visible at the bottom, showing values for Cholesterol, Triglyceride, HDL, LDL, FastingGlucose, HbA1c, and TSH.

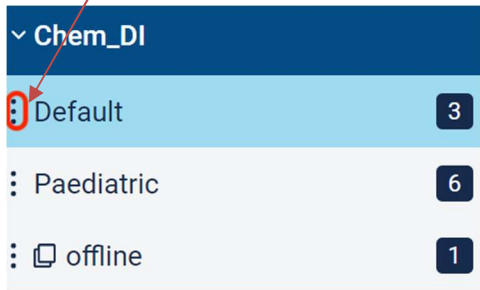
Attribute	Range	3 Nov 2009 8:46 am
LabNumber		8528308
Cholesterol	< 5.5	4.8
Triglyceride	< 1.5	0.6
HDL	> 1.0	1.6
LDL	< 3.5	2.9
FastingGlucose	2.5-...	6.4*
HbA1c		
TSH		To Follow
CollectedDate		03 Nov 09



The screenshot shows the same RippleDown Validator web interface, but with the 'Find Case' dialog box open. The dialog box contains a search input field and a list of case numbers: 5283435, 8461308, and 8528308. The 'Submit' button is highlighted in blue. The background interface is dimmed, showing the same patient information and report 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

