



The Royal Australian and New Zealand
College of Radiologists®

e-Film Reading User Guide



RADIOLOGY ELECTRONIC EXAMINATIONS

User Guide for:

- **Part 2 e-Film Reading Exam**

This user guide contains screenshots outlining step by step instructions on how to use the e-Film Reading Exam platform.

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Logging In

Before you can begin sitting for your exam, you need to login to the e-Exam platform.

- 1 Username**
Your username is your candidate number. If you are unsure, please refer to your exam verification document.
- 2 Password**
Your password will be provided to you when you register at the examination venue.
- 3 Login**
After you enter your Username and Password, click the **LOGIN** button to log into the system

The screenshot shows the login interface for the Radiology Examinations. At the top left is the crest of The Royal Australian and New Zealand College of Radiologists. Below it, the text reads "The Royal Australian and New Zealand College of Radiologists*". To the right, a "Disclaimer" box contains the following text: "The RANZCR takes every care in organising the examination. However it cannot guarantee the organisation and running of the examination will be free of disruptions or problems. Trainees are advised that such problems or disruptions will not automatically represent grounds for appeal of their result. Should such an incident occur, a trainee may submit a reconsideration form for review." Below the disclaimer is the "Radiology Examinations" title. The login form includes a "Username:" field (callout 1), a "Password:" field (callout 2), and a "By selecting to LOGIN you have read and accepted the disclaimer" checkbox. A red "LOGIN" button (callout 3) is positioned below the checkbox. In the background, a person in blue scrubs is seated at a desk with multiple computer monitors displaying medical images.

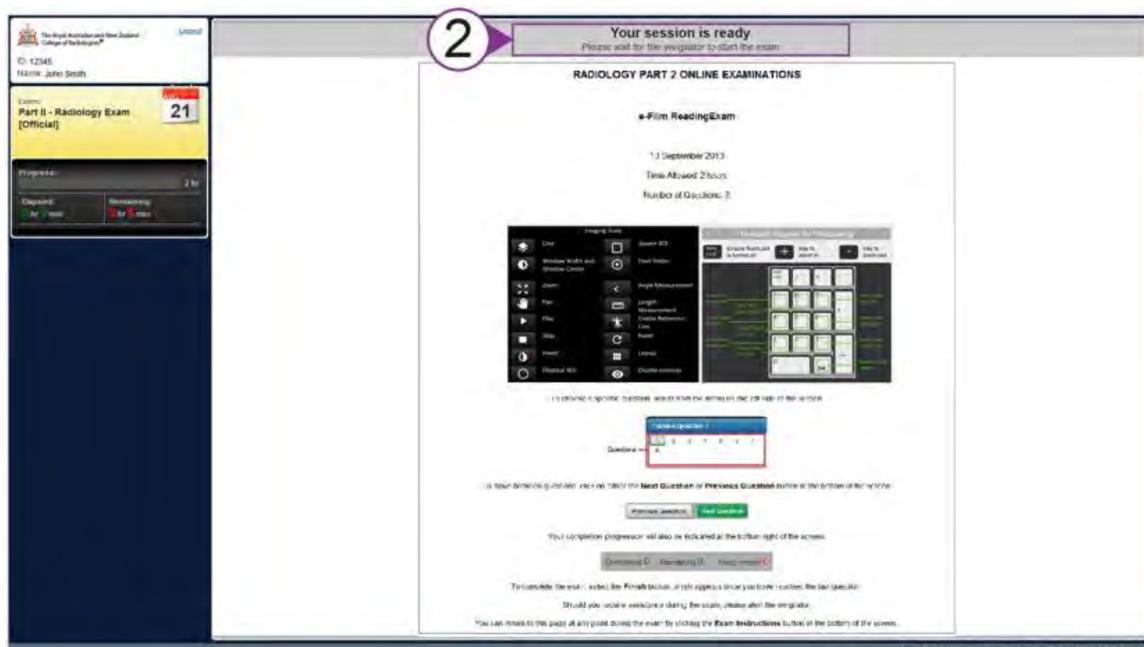
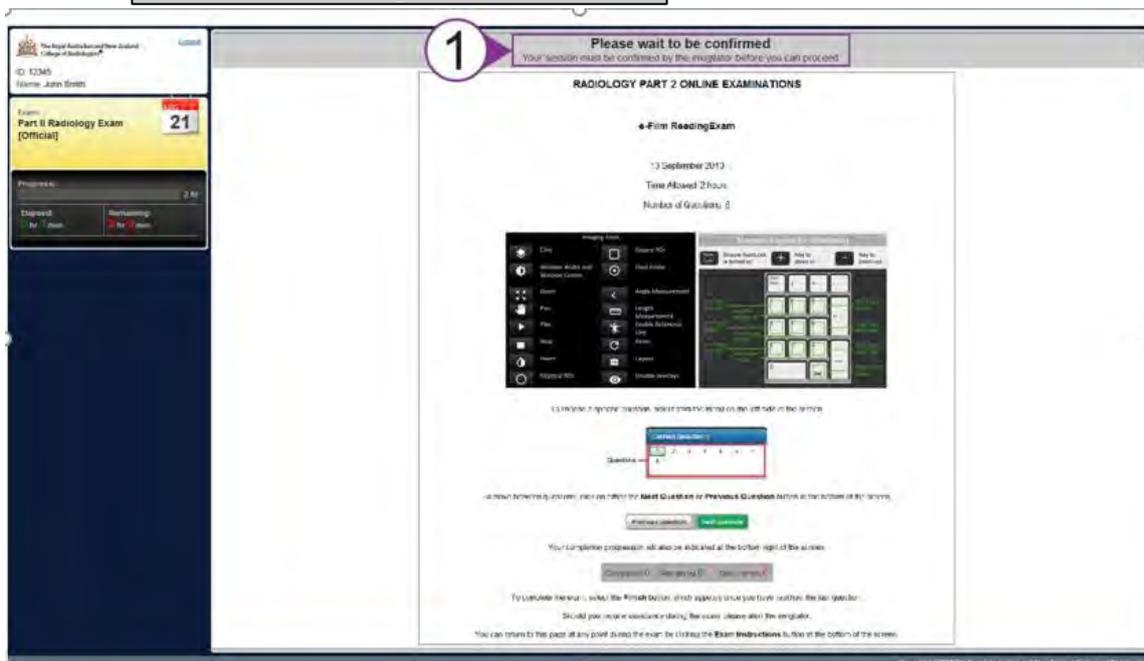
Before starting the exam

- 1 After you login, you will be presented with the Exam Instructions screen while you wait to be confirmed by the invigilator. This message will appear at the top of the screen.

Please wait to be confirmed
Your session must be confirmed by the invigilator before you can proceed

- 2 Once you have been confirmed, the message at the top of the screen will update to inform you that your session is ready. The invigilator will then start the exam to ensure all candidates commence at the same time.

Your session is ready
Please wait for the invigilator to start the exam



Exam Information

This section will help you familiarise yourself with the e-Film Reading Exam platform.

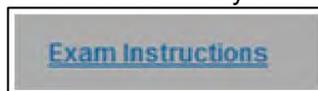
- 1 Your candidate number and name are displayed at the top left of the screen.



- 2 Below that, the exam title and date are displayed.



- 3 You can return to the previous instruction page by clicking the Exam Instructions button at the bottom of the screen at any time during the exam. The Exam Instructions page contains a summary of the available imaging tools.



1

2

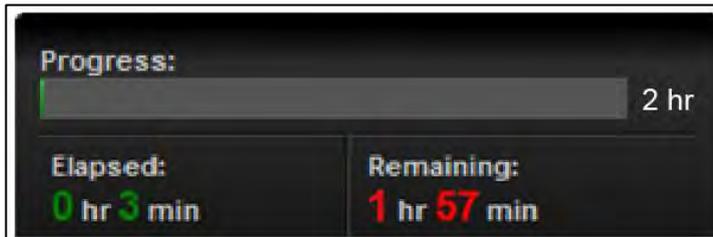
3

Exam progress indication

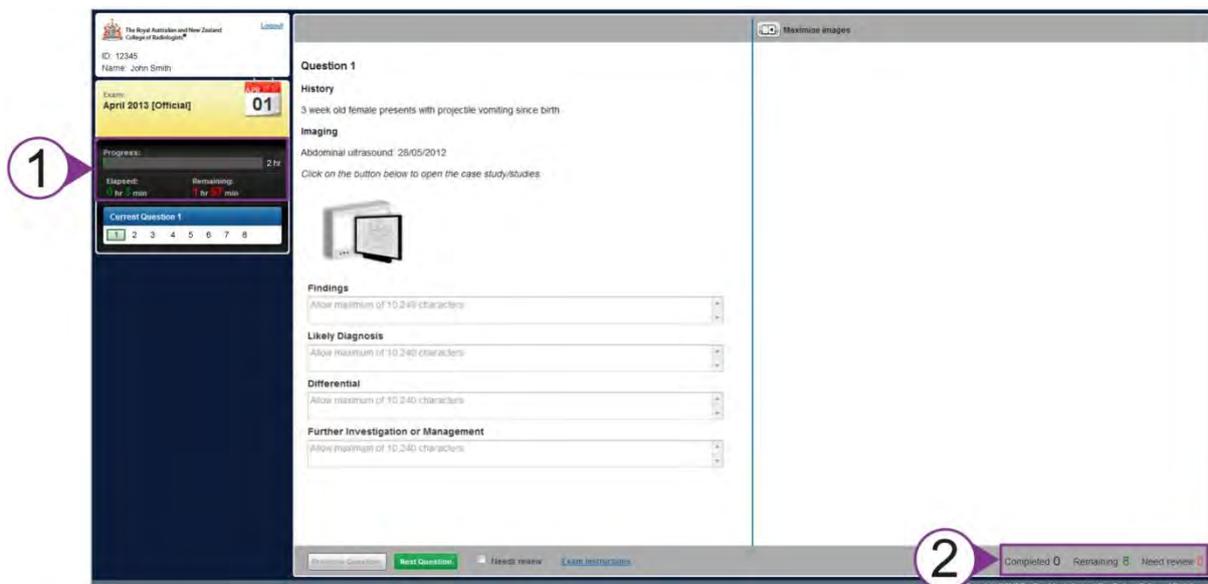
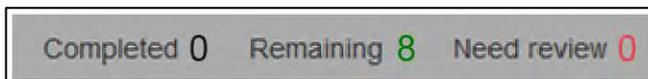
Your progression in the e-Film Reading Exam is indicated in two places on the screen.

- 1 On the left side of the screen, a progress bar visually indicates your time in the exam. Detailed elapsed time and remaining time are also presented here.

The Remaining time section will blink to notify you when you have **5 minutes** left to complete the exam.



- 2 At the bottom right of the screen, the number of questions you have completed, remaining or marked as Needs Review are listed.

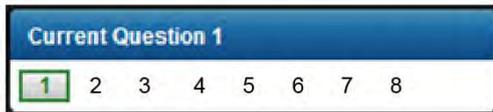


A full screenshot of the e-Film Reading Exam interface. On the left side, there is a sidebar with a progress bar and a question counter. The progress bar shows "01" and "2 hr" remaining. The question counter shows "Current Question 1" and a row of numbers 1 through 8. The main area displays "Question 1" with a history of "3 week old female presents with projectile vomiting since birth". It includes sections for "Imaging" (Abdominal ultrasound: 28/05/2012), "Findings", "Likely Diagnosis", "Differential", and "Further Investigation or Management", each with a text input field. At the bottom right, there is a summary bar showing "Completed 0", "Remaining 8", and "Need review 0".

Moving through the exam questions

You can move through the e-Film Reading Exam by either of the two methods listed below.

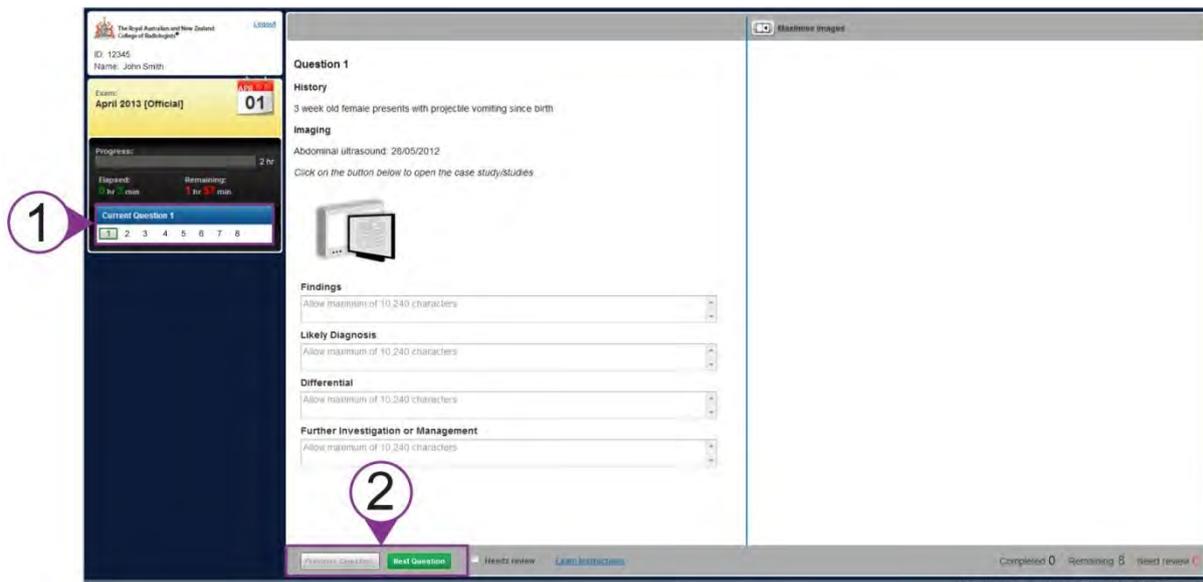
- 1 Click on any of the question numbers within the question list box located on the left side of the screen.



As you progress through the exam, the numbers will change in colour to indicate your progression.

- 1 Un-answered questions
- 1 Answered questions
- 1 Questions marked for review
- 1 Question currently displayed

- 2 Click the Previous Question or the Next Question button at the bottom of the screen to move from one question to another sequentially.



1

2

Viewing cases

- 1 The study/studies related to the question is listed under the heading **Imaging**.

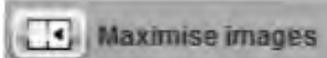
Imaging

Abdominal ultrasound: Performed on 28/05/2012

- 2 To view images click the **case study/studies** button



- 3 By default you will be shown both the Text and Image display area when you open a question. Click the **Maximise images** button to view a larger area of Images.



- 4 When you would like to answer the questions, click **Show text and images**.

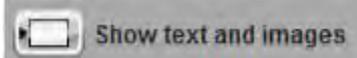
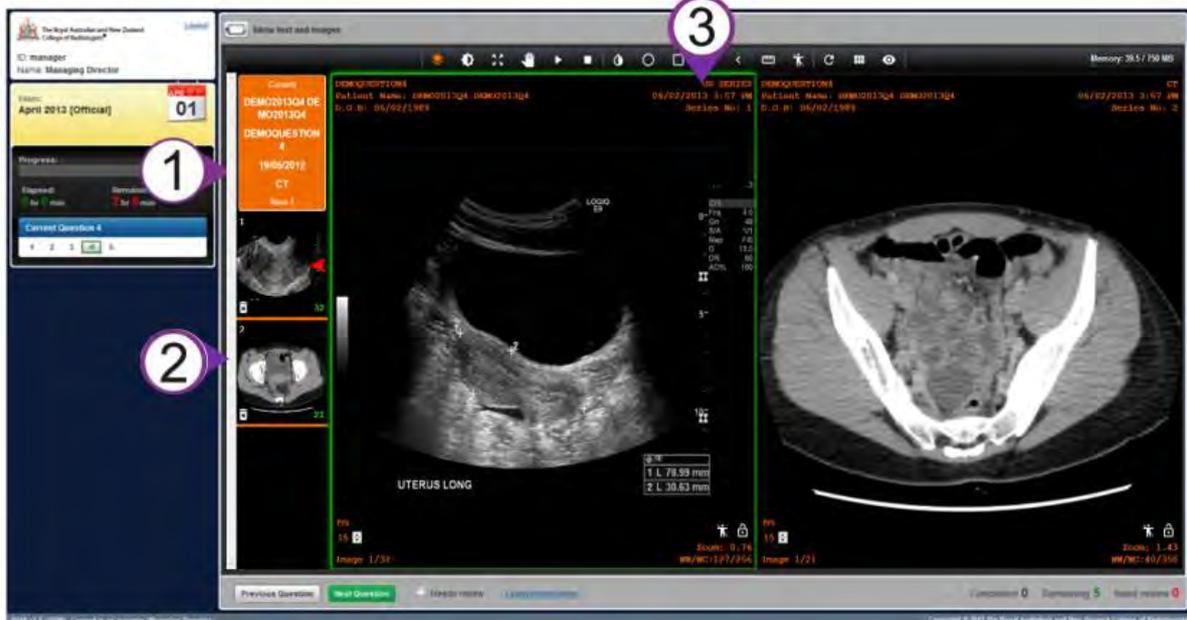


Image display area

- 1 Each image/series is represented by a thumbnail in the Image display area. The number of images per series is displayed at the bottom right-hand side of each thumbnail.



- 2 Double Clicking on the thumbnail will enlarge it
- 3 The image below represents one case study containing two modalities.



Imaging tools

1

A variety of imaging tools are available at the top of the imaging area.



Cine - Cine Mode can be performed by clicking on the Cine icon and left click on image and move the mouse.



WW/WC (Window Width and Window Center): Windowing be accessed by clicking on the WW/WC icon and left clicking the mouse button on the image.



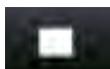
Zoom: Zoom in and out can be performed by click on the Zoom icon and left clicking the mouse button and moving the mouse.



Pan: Panning can be accessed by clicking on Pan icon. Panning can also be performed by right clicking the mouse button.



Play: will allow the user to play a series.



Stop: will stop the series from playing.



Invert: can be performed by left clicking on Invert icon.



ROI – Elliptical: can be performed by left clicking on the ROI icon, move the cursor to the image left click and drag once the desired size is established. ROI can be resized and relocated at any time. To delete the ROI, left click and drag drop outside the screen.



ROI – Square: can be performed by clicking on the ROI icon, move the cursor to the image left click and drag once the desired size is established. ROI can be resized and relocated at any time. To delete the ROI, left click and drag drop outside the screen.



Pixel Probe: can be performed by clicking on the Pixel Probe icon and left click on image.



Angle Measurement: can be performed by clicking on the angle icon and left click on image and create angle.



Length Measurement: can be performed by clicking on the Length Measurement icon and left click on image to create measurement.



Enable Reference Line: click on the study that you wish to compare Series. Find a series that are on different plane, when both studies are loaded click on. The studies will now be in synch.



Reset: will reset and clear all the measurements



Layout: will allow user to determine the Hanging Protocol of the images. To change the matrix, click on the Window Matrix Icon and select the desired view.



Disable overlays: user can disable overlays by clicking on Disable overlay icon.

Additional functions



Green border denotes active image



Mouse wheel - Scroll images within series

**ROI reset**

After using a ROI function, press the **Reset** button  to delete the value, and then click on the **Cine** button .

**Window Width and Window Center**

To manually adjust the Window width and levels, you must have the **Window Width & Window Center** tool activated. Then hold down the left mouse button, and move the mouse horizontally to adjust the Width or vertically to adjust the Level.



You can also use the numeric keypad on the computer keyboard for windowing



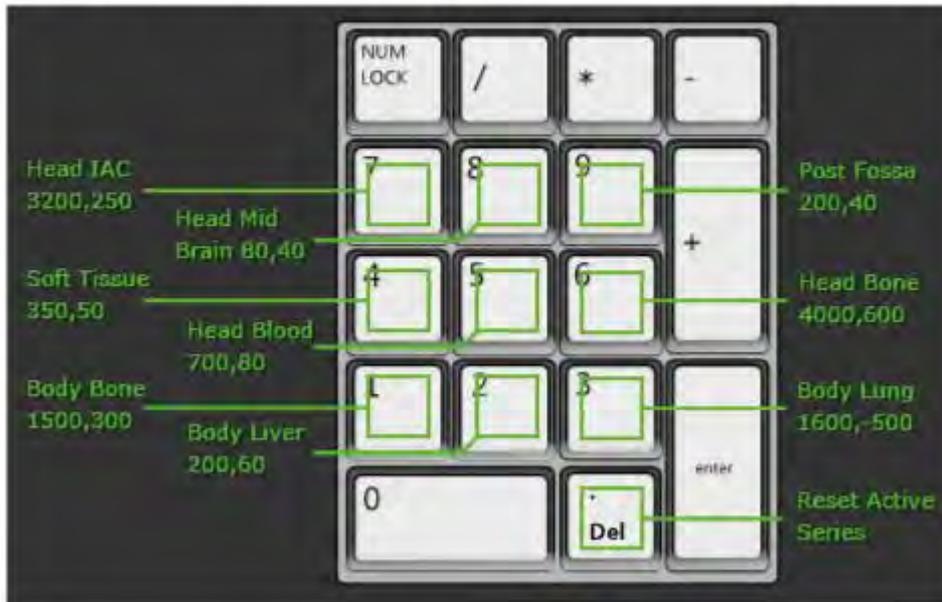
Ensure NumLock is turned on



Key to zoom in

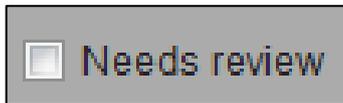


Key to zoom out



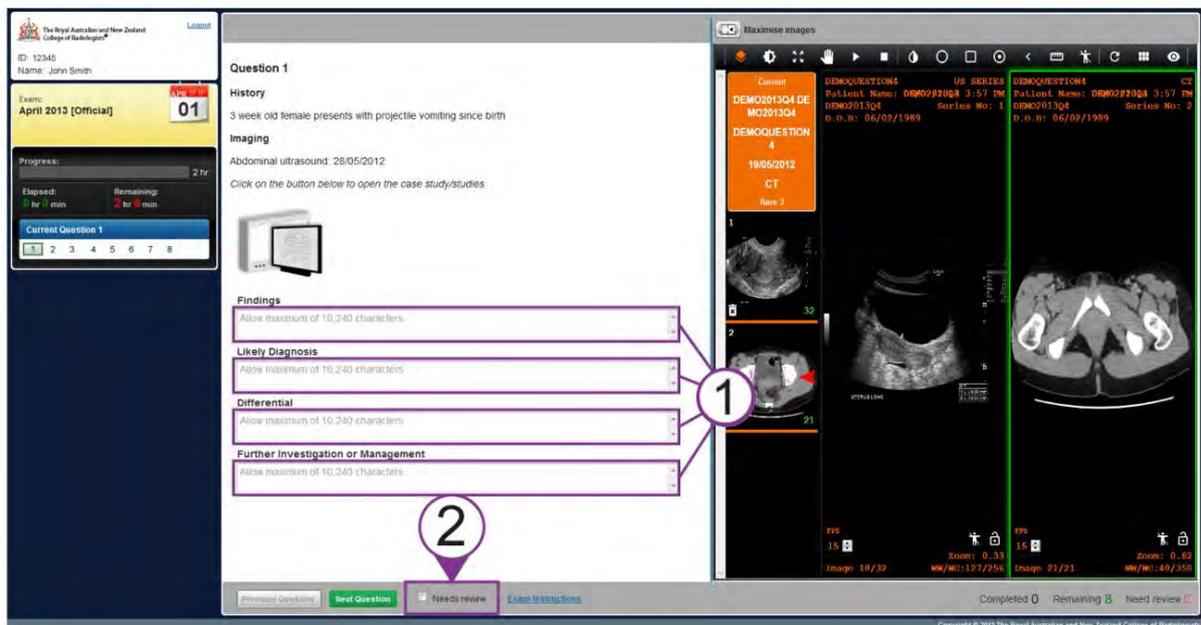
Answering questions

- 1 Answer questions by typing into the answer text box. The box will automatically expand as you type in your answer.
- 2 While answering questions, should you want to review the question at a later time during the exam, you can mark the question as Needs Review by clicking the **Needs Review** button located at the bottom of the screen.



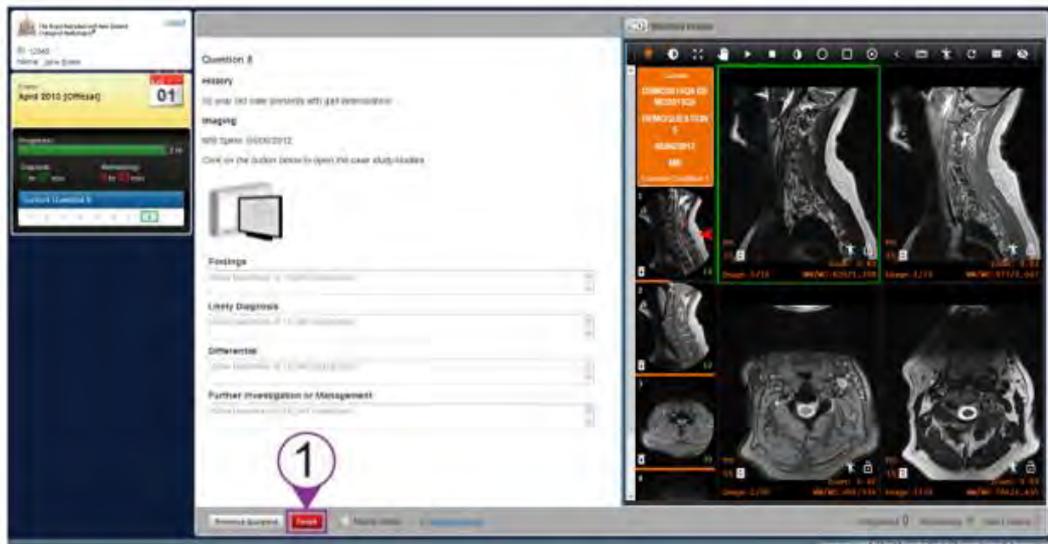
Remember to un-tick the Needs Review button after you have reviewed your answer.

-  **Note:** Should you run out of time at the end of the exam, any answers which are still marked as **Needs Review** will be included in the submission.

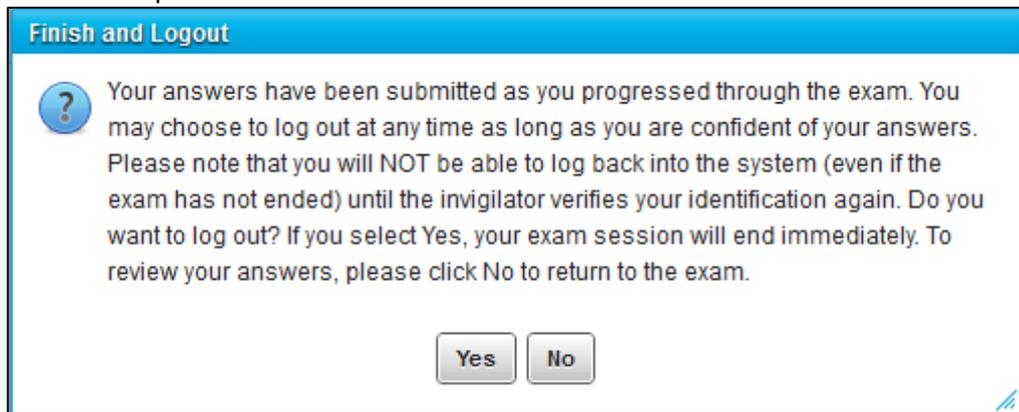
A screenshot of the Radiology Online Examinations interface. The interface is divided into several sections. On the left, there is a sidebar with user information (ID: 12345, Name: John Smith), exam details (April 2013 Official, 01), and a progress bar showing 2 hours remaining. The main content area displays "Question 1" with a history of "3 week old female presents with projectile vomiting since birth" and an imaging section for "Abdominal ultrasound: 28/05/2012". Below this, there are four text input fields for "Findings", "Likely Diagnosis", "Differential", and "Further Investigation or Management", each with a character limit of 10,240. A purple circle with the number "1" points to these input fields. At the bottom of the question area, there are three buttons: "Previous Question", "Next Question", and "Needs review". A purple circle with the number "2" points to the "Needs review" button. On the right side of the interface, there is a "Maximize images" window showing a list of questions and a grid of medical images, including ultrasound and CT scans. The bottom of the interface shows a status bar with "Completed 0", "Remaining 8", and "Need review 1".

Completing the exam

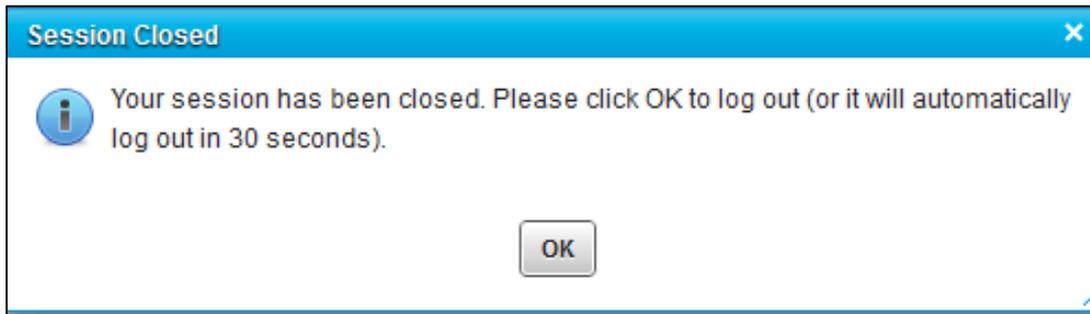
- 1 To complete the e-Film Reading Exam, go to the last question in the exam. You will notice that the **Next Question** button is now replaced by a **Finish** button. Click the **Finish** button to submit your exam.



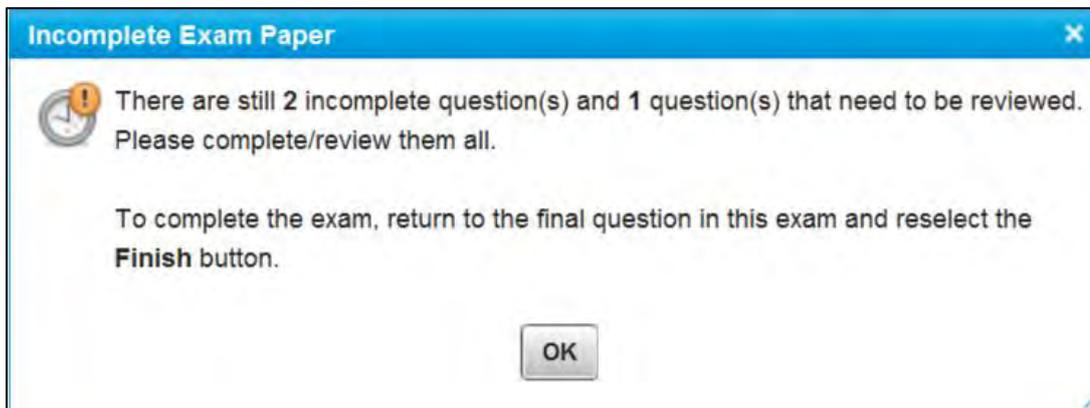
- 2 You will then be presented with the **Finish and Logout** confirmation window. Click **Yes** to proceed.



- 3 Your session will then be closed and you will be logged out after 30 seconds.



- 4 Prior to the end of the examination time, if you have outstanding questions, you will not be able to finish and logout. You will be presented with a popup window containing instructions on what you need to action before you are able to submit your exam.



Online Practice Exam

Candidates will have access to an Online Practice Exam for a 3-4 week period prior to the exam, with 5 sample questions. The purpose of the Online Practice Exam is to provide candidates with familiarity of the PACS viewer within the e-Film Reading Exam platform.

All enrolled candidates will be emailed a link and login credentials approximately 4 weeks before the exam date.

We recommend a minimum screen resolution of 1280x720. A good internet connection is required to load images. For slower internet connection, images may take time to load.

The performance of the Online Practice may vary, depending on your hardware and software.

Additional Resources

To assist you in sitting for your e-Film Reading Exam, additional resources are available from the RANZCR website at <https://www.ranzcr.com/trainees/clinical-radiology/exams>

Read the e-Exams Frequently Asked Questions (FAQs) document with information about the online exams, venue and questions specifically on the e-Film Reading exams.

The Royal Australian and New Zealand
College of Radiologists*

Frequently Asked Questions (FAQs)

RADIOLOGY ELECTRONIC EXAMINATIONS

PART 1:
e-Anatomy
e-AIT (Applied Imaging Technology)

PART 2
e-MCQ (Radiology and Pathology)
e-Film Reading

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e-Exams Platform
Candidate Conduct

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Part 1: e-AIT (Applied Imaging Technology)
Part 2: e-MCQ (Radiology and Pathology)
Part 2: e-Film Reading

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