

RadExam FAQ

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If you have problems with access, faculty or resident registration, contact radexamsupport@acr.org

RadExam is a high-quality question item and exam database developed by the APDR and ACR for Radiology programs to be able to provide R level specific (**R level = resident year, R1=PGY2**), formative knowledge-based assessment of their residents.

The APDR/ACR RadExam system is available to all residents whose programs have paid for the DXIT-RadExam package. Residents may use both or either exam system.

Exam content currently available

- 107 Clinical exams, at least two per R level per specialty
- 1 (two part) comprehensive R3 level exam (RECR3ATE) with 340 Q
- 11 Modality specific exams in physics
- 13 Non-interpretative skills exams (3 general NIS, 3 general patient safety, 1 MRI safety, 2 radiation safety, 2 contrast safety, 1 informatics and 1 health economics)

Features include the ability to:

- Review exam content
- Schedule exams to appropriate residents to be taken during a specified period
- Immediately review the results, with comparisons to other R level equivalent residents at your institution and nationally (as soon as sufficient examinees have taken the exam)
- Track results over time, within specialty and modality
- Compare your institutional overall results with other institutions
- Automatic emails to inform your residents that exams are scheduled and available
- Residents can review their exam and results, including explanations and comparative responses
- Make your own exams from the database of questions

The following are currently NOT available (planned release 2021):

- Alter resident demographics (R level, add and remove residents) from within RadExam
- Assign specific access permissions to your faculty

RadExam deployment and reporting summary

1. Use [The Library Page](#) to select the R level and specialty appropriate exam for a resident to take; exam content can be reviewed on the [Exam details Page](#).
2. Use the "[The Assign Exam Page](#)" to assign the exam to a resident(s) and select the date range that they will take it within.
3. Residents should receive automatic emails that they will find exams on their [Institutional Portal Interface](#) available to be taken within those dates (<https://cortex.acr.org/RESRadExam>).

4. Track exam completion via the [“The Dashboard Page.”](#)
5. Check results of all exams with institutional and national comparisons via the [“The Reports Page.”](#)

Anticipated use

We anticipate that programs will assign the R level appropriate exam to residents during their last few days of a rotation. This timing will be at the program’s discretion, for example, this could be a window from Wed-Fri in the last week of the rotation or a set day each rotation (see [The Assign Exam Page](#)).

- Residents will be sent automatic emails on the day that their exam opens, the last day and also when overdue.
- All exams can be found on the [Institutional Portal Interface](#), under ‘Not Started’ when available to be taken, and ‘In Progress’ when started or incomplete.
- Proctoring is not required although suggested, but please see the honor code below.
- Programs can use any or all exams as they feel appropriate.
- We **HIGHLY** recommend that you schedule exams according to the block resident schedule rather than scheduling all residents for a wide window (e.g for all their R level specific exams to be taken anytime in the next 4 months). This is more work up front but will entail much less tracking and chasing later on and will likely result in much higher compliance by your residents who otherwise will not know when to take specific exams. It will also limit the use of these results for end of rotation evaluations.
- Narrow exam windows allow the [automatic emails to work correctly](#)
- If you do not link the exam schedules with resident rotations, you will not be able to use the Dashboard to track compliance and will have to keep checking against individual resident schedule.

USING THE RESULTS OF RADEXAM

RadExam results can be used for continuous resident evaluation, assessing residents that need remediation, CCC and PEC meetings to evaluate both the programs and the individual residents. For more information watch [this brief video](#).

Example of using block schedules with RadExam

In this example Residents have 6-day windows to complete exams

Resident	R level	Rotation	Rotation finishes	Exam	RadExam scheduled dates
Jones	1	Ultrasound	3/2/18	Ultrasound R1a V1	2/26-3/4
Davis	1	Nuclear	3/2/18	Nuclear R1a V1	2/26-3/4
Lewis	3	Chest	3/9/18	Chest R3a V1	3/7-3/10
Nyberg	2	Neuro	3/9/18	Neuro R2a V1	3/7-3/10
Lewis	3	Neuro	4/6/18	Neuro R3a V1	4/4-4/8
Jones	1	Chest	4/6/18	Chest R1a V1	4/4-4/8

An important note: Please only assign R level appropriate exams or it will invalidate our ability to assess exam and question difficulty effectively and maintain the quality and value of the tool to programs (e.g. only allow R3 residents to take R3 exams). **Only assign an exam one time to a resident.** RadExam is NOT meant as a self-assessment or learning tool by residents but as a formative evaluation tool by the program.

Resident benefits

RadExam gives residents the ability to regularly assess their specialty specific knowledge base as they complete each rotation and compare their results with other R level comparable residents locally and nationally. The questions are of similar format to the ABR questions and should provide good practice opportunities. Note: **RadExam is NOT intended as a self-study resource but the residents do get 30 minutes at the end of their exams to review answers and explanations.**

Exam duration

Exam duration is 60 minutes. The only exception currently is the 100 question precall quiz which is 2 hours and the RECR3ATE exams which are 3.5 hours per section. Exams can be reset by the program coordinator if necessary. Residents should be encouraged to allow time to complete these exams once started. If the time expires, the exam will auto-submit.

Support

Clicking the green 'Support' tab on the right of each page will bring up a form which can be completed and submitted.

Urgent support can be obtained by calling 703-648-8373 9am-4pm Eastern Time or emailing radexamsupport@acr.org

The screenshot shows a 'Support & Feedback' form. A green sidebar on the left contains the word 'Support'. The form includes a search bar at the top right labeled 'Search Articles'. Below it is an email field with 'petra.lewis@hitchcock.org' and a text area with 'problems adding residents'. A rich text editor follows with the text 'How do I add a resident'. Below the editor are fields for 'Service Group' (RadExam) and 'Issue Type' (Problem), and a 'Send Feedback' button. Four red callout boxes point to specific features: 'Use this to find information' points to the search bar; 'Complete for non-urgent problems' points to the text area; 'Screenshot the specific page' points to the image icon; and 'Send us feedback about RadExam to help improve the system' points to the 'Send Feedback' button.

- If program staff are having issues getting their residents into the Program and Practice Management (PPM) – contact the In-Training Exam team at InTrainingExam@acr.org.
- If residents are having trouble with their username or login information contact ACR membership department (by phone at 1-800-347-7748 or by email at membership@acr.org from 8:30am to 5:00 pm Monday – Friday). Additionally, if residents have issues with passwords – they can reset their password in using this link [Reset password](#) .

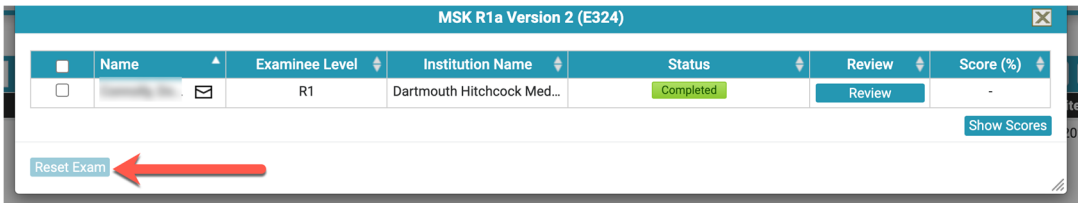
If the list of residents in RadExam is not the same as the Program and Practice Management or any issues with RadExam – contact RadExamSupport@acr.org with the list of residents and resident level.

Incomplete exams and exam resets

Please encourage all residents to answer every question. Currently, if not all questions were answered and the time expired, the exam will remain 'in progress'. To reset an exam, click the status icon beside the resident's name on the schedules page, then click reset in the bottom left.

The screenshot shows the 'Schedules' page in a system. At the top are tabs for 'Dashboard', 'Library', 'Schedules', and 'Reports'. Below the tabs is a table with columns 'Exam Name', 'Assigned To', and 'Status'. The table contains two rows: 'MSK R4a Version 1 (E247)' and 'MSK R1a Version 2 (E324)'. A red arrow points to a circular status icon in the 'Status' column of the first row.

Exam Name	Assigned To	Status
MSK R4a Version 1 (E247)	(R4) [Name]	[Status Icon]
MSK R1a Version 2 (E324)	(R2) [Name]	[Status Icon]



Similarly, if an exam needs to be completely deleted (wiped out of system), e.g. if a resident only answered a handful of questions before being interrupted, you can do it via the scheduling page (see later)

Checking resident registrations

Eventually this will be done within RadExam itself, but currently please use the Program and Practice Management (PPM) application (as for DXIT) to ensure that your residents are registered and correctly assigned <https://ppm.acr.org/>.

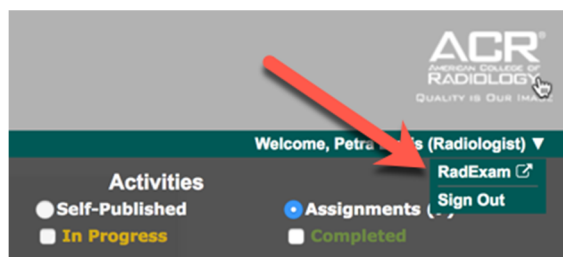
How to videos

Short orientation videos of each section can be found here:

1. [Dashboard Page \(3 mins\)](#)
2. [Library Page \(6 mins\)](#)
3. [Scheduling exams \(2 mins\)](#)
4. [Schedules Page \(5.5 mins\)](#)
5. [Reports Page \(10 mins\)](#)
6. [Make Your Own Exam \(5 mins\)](#)
7. [Resident Portal \(5 mins\)](#)

Accessing RadExam

Program director/Program coordinator site to assign exams and get reports: <https://cortex.acr.org/RadExam>
To access, use your ACR login and password. If you have forgotten your password, you can request one [here](#).
You can also access the system by using the institutional portal link <https://cortex.acr.org/resradexam> and then selecting RadExam from the top right drop down menu.



When **Faculty and Program Coordinators** first sign into RadExam they will be asked to accept the following agreement. If you are not willing to agree to this, please contact Petra Lewis at petra.lewis@hitchcock.org

FACULTY HONOR CODE

RadExam has been developed as a non-proctored assessment resource and should be administered and taken under an honor code. This applies to both faculty and residents involved in administering or taking RadExam, who are subject to separate honor codes. By clicking below, you agree that you will not download, photograph, or convey the exam content in any form other than via the RadExam interface to your residents or others. You agree that you will not share your username/password with other faculty or residents. You also agree that if your residents violate the Resident Honor Code your program will treat this as a breach of professionalism standards, notify the RadExam officials, and manage the violation according to your local departmental and GME protocols. The APDR (in consultation with the RadExam Executive Committee) also reserves the right to refuse access to RadExam to the entire or part of, a program involved in a violation for a period of time (1 year or more) after a serious infraction of this honor code.

Data from RadExam may be used for research purposes and for improving question and exam item quality and performance. All such data will be anonymized as to resident name and medical student program name, but grouped data (e.g., by program size or geography) may be used. No identifiable program data will be distributed to other programs or individuals unless specific written consent is given by both parties.

RadExam provides standardized formative exams to enable residents and Program Directors to evaluate the resident's progress and knowledge gaps. These exams also allow Program Directors to analyze their program for sectional educational strengths and areas of educational weakness. The exam is intended to be a measure of general achievement in diagnostic radiology. It should not be used as the primary measure of examinees' performance in any postgraduate program or qualification for promotion to the next level of training or certification.

When **residents** start an exam, they will be required to agree to the following statement:

RESIDENT HONOR CODE

RadExam has been developed as a non-proctored assessment resource and is administered under an honor code as a closed book examination. By clicking below, you agree that you will not download, photograph or convey the exam content in any form to others or seek or accept such content from others. You also understand that if you violate this agreement, that it will be seen as a significant professionalism issue by your Program Director and the APDR. It may result in you or your program being denied access to RadExam for a period of time that would be defined by the APDR (in consultation with the RadExam Executive Committee).

RadExam provides standardized formative exams to enable residents and Program Directors to evaluate the resident's progress and knowledge gaps. These exams also allow Program Directors to analyze their program for sectional educational strengths and areas of educational weakness. The exam is intended to be a measure of general achievement in diagnostic radiology. It should not be used as the primary measure of examinees' performance in any postgraduate program or qualification for promotion to the next level of training or certification.

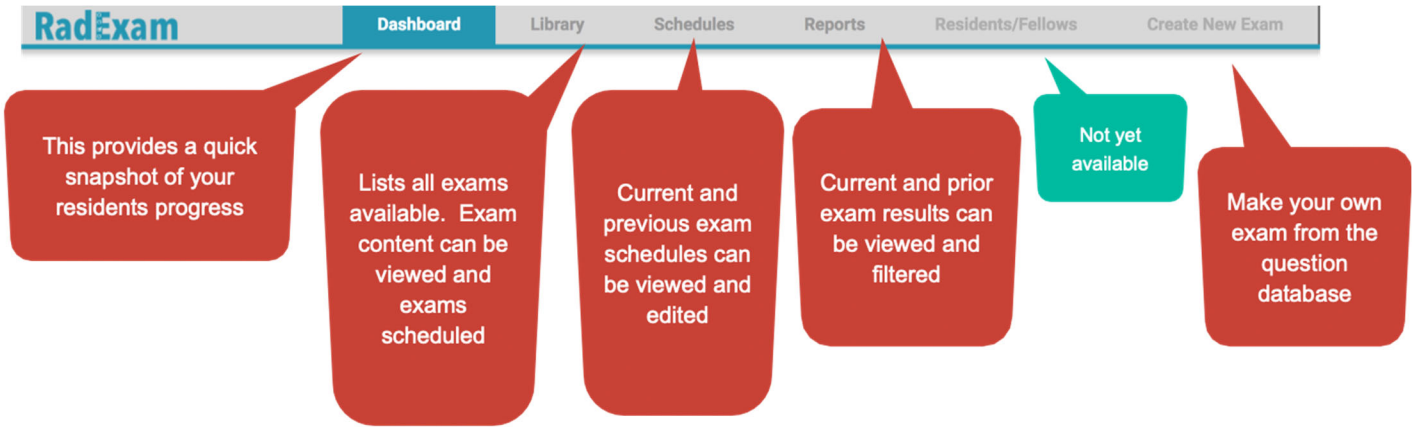
Exam content currently available

Section	Exams	Comments
Body	R1, R2, R3, R4 (2-3 versions of each)	Includes fluoro, GI, GU
Breast	R1, R2, R3 R4 (two versions of each)	Versions 1 and 2 cover same content to allow for repeat exams/increase exam security
Cardiac	R1, R2, R3, R4 (2 versions of each)	All of the Cardiac exams, have greater weighting of cardiac content, but still incorporate some non-cardiac content. Versions 1 and 2 cover same content to allow for repeat exams/increase exam security
Emergency radiology	R1, R2, R3, R4 (two versions of each) 100Q precall exam R1 – all modalities 30Q precall R1 - radiology only	Versions 1 and 2 cover same content to allow for repeat exams/increase exam security
Fluoroscopy	R1,R2, R3, R4 (one version of each)	
GI	R1,R2, R3, R4 (one version of each)	Do not give with the body exams
GU	R1,R2, R3, R4 (one version of each)	Do not give with the body exams
Interventional	R1, R2, R3, R4 (two versions of each)	Versions 1 and 2 cover same content to allow for repeat exams/increase exam security
Musculoskeletal	R1, R2, R3, R4 (two versions of each), Fellow (one version)	Versions 1 and 2 cover same content to allow for repeat exams/increase exam security
Neuroradiology	R1, R2, R3, R4 (two versions of each)	Versions 1 and 2 cover same content to allow for repeat exams/increase exam security
Non-interpretative skills	General (two versions), Patient safety (three versions) Radiation safety (two versions) MRI safety (one versions) Contrast safety (two versions) Informatics (one version) Health economics (one version)	Versions 1 and 2 cover same content to allow for repeat exams/increase exam security
Nuclear radiology	R1, R2, R3, R4 (two versions of each)	
Pediatric radiology	R1, R2, R3, R4 (two versions of each)	Versions 1 and 2 cover same content to allow for repeat exams/increase exam security
Physics	CT, IR/Fluoro, Mammo, MRI, Nuclear, Radiology, US (one version of each)	
Thoracic	R1, R2, R3, R4 (two versions of each)	Thoracic Version 1 exams were designed for programs in which the Thoracic and Cardiac rotations

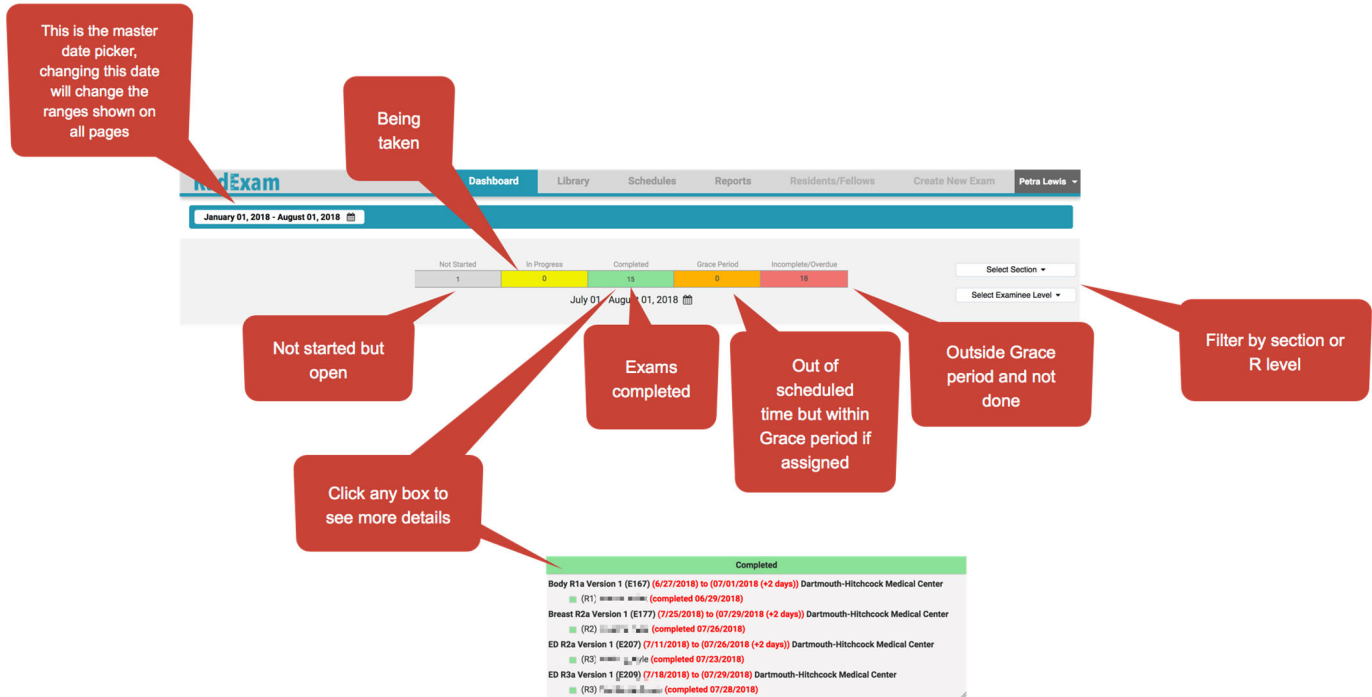
		are separate and focus on non-cardiac content Thoracic Version 2 exams were designed for programs with more integrated Thoracic and Cardiac rotations.
Ultrasound	R1, R2, R3, R4 (two versions of each)	

Navigating the RadExam interface

RadExam has 6 tabs on the top, select each to move to that section



The Dashboard Page



Not Started 2 In Progress 0 Completed 48 Grace Period 0 Incomplete/Overdue 4

August 09 - September 08, 2020

Incomplete/Overdue

- ED R3a Version 1 (E209) (08/20/2020 to (08/30/2020 (+2 days))) Dartmouth-H
- GI R4a Version 2 (E382) (07/29/2020 to (09/06/2020)) Dartmouth-H
- MSK R3a Version 2 (E244) (05/28/2020 to (09/06/2020)) Dartmouth-H
- ED R2a Version 2 (E313) (08/04/2020 to (08/30/2020)) Dartmouth H

Click to email residents directly with a reminder to complete exams

Percentile Ranking

76-100
51-75
26-50
0-25

February 01, 2018 - August 11, 2018

In Progress 0 Completed 115 Grace Period 0 Incomplete/Overdue 40

February 01 - August 11, 2018

Body
R2

Select Section
Select Examinee Level

Support

Get support

Change the date range of data shown

Change between number and % of residents

Filter by section or examinee level

This graph shows how your residents are performing overall compared to other programs nationally

Percentile Ranking

76-100
51-75
26-50
0-25

Number of your residents Percentage of your residents

May 12 - August 11, 2018

The Library Page

EXAM DETAILS MODE

Selecting Exam Library in the top left menu will bring up details of the available exams.

The screenshot shows the 'Exam Library' interface. At the top, there are two tabs: 'Exam Library' (selected) and 'Exam Statistics'. Below the tabs are three filter dropdowns: 'Select Section', 'Select Exam Level', and 'Select Source', followed by a search bar labeled 'Search this Page'. The main content is a table with columns: Fav., ID, Exam Name, Section, Exam Level, Administrations, # Questions, and Source. Each row has 'Preview' and 'Assign' buttons. There are also three dots to the left of the Exam Name column. Callout boxes provide instructions: 'This will take you to the exam preview module to see exam like a resident' (pointing to the Preview button), 'Click on any header to sort' (pointing to the Exam Name header), 'Click here to switch between exam library and exam statistics views' (pointing to the Exam Library tab), 'Use these drop downs to filter by section, exam R level or source of the exam' (pointing to the filter dropdowns), 'This will search any field including exam name' (pointing to the search bar), 'Click to make one of these exams your favorites' (pointing to the star icon), 'Click to assign an exam to residents' (pointing to the Assign button), 'Click dots or exam name to bring up the exam details and schedule menu' (pointing to the three dots), and 'Resident level this exam is intended for' (pointing to the Exam Level column).

Fav.	ID	Exam Name	Section	Exam Level	Administrations	# Questions	Source
☆	E10071	PreCall Radiography Version ...	Emergency Radiology	R1,R2	524	33	APDR
☆	E10656	Precall exam Version 1 (E337)	Emergency Radiology	R1,R2	855	100	APDR
☆	E10671	NIS: Patient Safety (version A...	Non-interpretative sk...	R1,R2,R3,R4	584	36	APDR
☆	E10672	Breast R1a Version 2 (E176)	Breast	R1	202	31	APDR
☆	E10673	Breast R4a Version 2 (E182)	Breast	R4	214	30	APDR

EXAM STATISTICS MODE

Clicking on “Exam Statistics” in the top left of the Library page will bring up more detailed statistics of the exams (when available).

The screenshot shows the 'Exam Library' interface. At the top, there are tabs for 'Exam Library' and 'Exam Statistics', with 'Exam Statistics' circled in red. Below the tabs are filters for 'Select Section', 'Select Exam Level', and 'Select Source', along with a search bar. The main content is a table with columns: Fav., ID, Exam Name, Section, Exam Level, Administrations, Mean Score, Median Score, SD, Mean DI, and Source. Three rows of exam data are visible. Red callout boxes provide explanations for the 'Administrations', 'Mean Score', 'SD', and 'Mean DI' columns.

Fav.	ID	Exam Name	Section	Exam Level	Administrations	Mean Score	Median Score	SD	Mean DI	Source
☆	E2018	RadExam Beta Body/GI	Gastrointestinal	R3	84	0.85	0.87	1.12	0.27	APDR
☆	E2022	RadExam Beta MSK	Musculoskeletal	R3	70	0.72	0.73	1.56	0.36	APDR
☆	E2067	RadExam Beta Neuro	Neuroradiology		76	0.84	0.89	1.45	0.37	APDR

Number of times this exam has been taken nationally

SD indicates the range of scores

This is the mean score of ALL residents who have taken this exam. Ideally we want this value to be between 70-80%. Ones outside this value will show as red. At least 30 administrations are needed for reliability

Median score will give you an idea of how normally distributed the data is. The more similar to the mean, the less skewed the results

The mean discrimination index shows how well this exam's questions discriminate between high and low performers. Ideally this should be >0.1. Ones outside this value will show as red.

EXAM DETAILS

Accessed by clicking the “...” on the Library table above then “Details”.

Exam: PreCall Radiography V... (E340) ☆
R-Level: R1,R2
Source: APDR
Exam ID: E10071

Exam Statistics
 Mean Score: **77%**
 Mean Discriminator Index: **0.27**
 Median Score: **79%**
 Administered: **524**
 Questions: **33**

Question Details

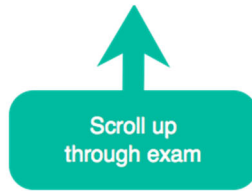
Case ID	Topic	Section	Exam Level	Administrations	% Correct	DI
39694	Left upper lobe atelecta...	Chest	R1,R2	524	50%	0.37
39705	Malpositioned swan ganz	Chest	R1,R2	525	54%	0.32
40085	Flexion teardrop fracture	Emergency Radiology,M...	R1,R2,R3,R4	525	83%	0.24
41000	Kerley B lines	Chest	R1	525	91%	0.27
41006	Left upper lobe collapse...	Chest	R1,R2	525	91%	0.28
41259	Anatomy cervical spine	Emergency Radiology,N...	R1	525	98%	0.31
43221	Avascular necrosis due ...	Emergency Radiology,M...	R1	525	98%	0.19
43702	Gazzzi fracture-disloc...	Emergency Radiology,M...	R1,R2,R3	525	39%	0.27

Callout Boxes:

- This is the mean score of ALL residents who have taken this exam. Ideally we want this value to be between 70-80%. At least 30 administrations are needed for reliability
- The mean discrimination index shows how well this exam's questions discriminate between high and low performers. Ideally this should be >0.1. At least 200 administrations are needed for reliability
- Return to library
- Click on any headers to sort
- Click to assign to residents without returning to the library
- Discriminatory Index per question
- Red bars show questions that have statistics that are suboptimal (P value <45% or >95%, or DI <0.1)
- % residents who got this question correct
- Preview question as residents will see it (interactive)
- Click on any question to see full details (see next page)

Question details


Accessed by clicking on the bolded question topic name on the Exam Details page



QID: Q38341 Hill Sachs fracture
Stem: 30 year old man with trauma. What type of humeral head fracture is shown?

Choices	% Selected	Explanation
A. Neer fracture	1%	Hill-Sachs lesions are a posterolateral humeral head compression fracture, typically secondary to recurrent anterior shoulder dislocations, as the humeral head comes to rest against the anteroinferior part of the glenoid.
*B. Hill Sachs fracture	61%	
C. Bankhardt fracture	37%	
D. Holstein-Lewis fracture	0%	

What answers the examinee selected

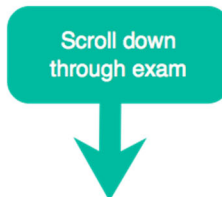


Hover over image to zoom

Meta data for the question

Subspecialty: Emergency Radiology,Musculoskeletal
Modality: Radiography
Anatomy: Shoulder and clavicle
Pathophysiology: Trauma
Primary Content/Type: Anatomy

Bloom's Taxonomy Level: 3 - Apply
R Level: R1,R4
Administered: 70
P-value: 0.61
Discriminator Index: 0.55



The Assign Exam Page

Accessed through Exam Library...Assign

You can assign exams ahead of time according to the block schedule, but we recommend only doing within the current academic year.

****NOTE: ALL EXAMS MUST BE TAKEN WITHIN 60 MINUTES EXCEPT THE PRECALL EXAM (120 MINS) AND RECR3ATE (3.5 hours each). IF THE RESIDENT LOGS OUT, THE CLOCK DOES NOT STOP****

The screenshot shows the 'RadExam Beta MSK' interface with the following callouts:

- Exam you are assigning**: Points to the exam selection area.
- Select to filter groups of examinees**: Points to the filter options (MS-I, MS-II, MS-III, MS-IV, R1, R2, R3, R4, Fellow, Radiologist, Physicist, Other).
- Select start and stop dates that exams will appear to residents**: Points to the 'Set Date and Time*' dialog box.
- Grace period makes it still available to resident to take but will appear as 'over due'**: Points to the 'Grace Period' setting (Yes, # Days: 3).
- You must save**: Points to the 'Save' button.
- Click to move residents into assign box**: Points to the right arrow (>) in the 'Available' list.
- Click to move back to unassigned**: Points to the left arrow (<) in the 'Assigned' list.

The 'Set Date and Time*' dialog box shows:

- Start: 01/24/2018 12:00 AM
- Due: 01/26/2018 11:59 PM
- Grace Period: Yes, # Days: 3
- End date: 01/29/2018 11:59PM
- Your time zone is: U.S. Eastern
- The current time at Dartmouth-Hitchcock Medical Center: Lebanon, NH, 07:13 AM
- To publish activity immediately, leave start date blank.

The 'Please confirm' dialog box shows:

- Users assigned to this exam:
 - (MS-IV) Wampler, Ariel
 - (R1) Pannu, Sidak
 - (R1) Sieberg, Ryan
- Start: 01/20/2018 12:00 AM
- Due: 01/30/2018 11:59 PM (+3 days)
- Buttons: OK, Cancel

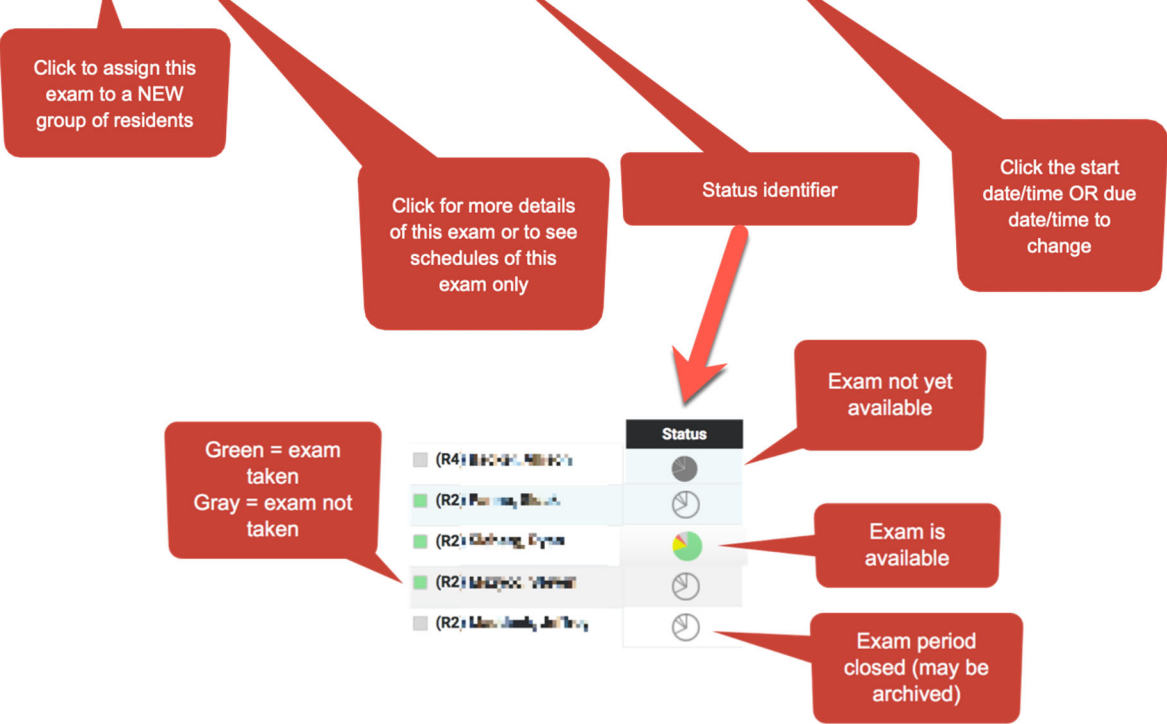
The Schedules Page

Showing 5 of 5

Not Started
 In Progress
 Completed
 Show Assignees
 Archived Exams Only
 Select Assigned By
 Search this Page

Fav.	ID			Exam Name	Status	Start Date/Time	Due Date/Time	Last Edited	Assigned By
☆	E10690	Preview	Assign	...	MSK R4a Version 1 (E247)	09/02/2020 12:00 AM	09/13/2020 11:59 PM	08/20/2020	Jill Rosenthal
☆	E10745	Preview	Assign	...	Breast R4a Version 1 (E181)	09/16/2020 12:00 AM	09/27/2020 11:59 PM (+2 d...	08/20/2020	Jill Rosenthal
☆	E10685	Preview	Assign	...	IR R4a Version 1 (E221)	09/02/2020 12:00 AM	09/13/2020 11:59 PM (+2 d...	08/20/2020	Jill Rosenthal
☆	E10694	Preview	Assign	...	ED R3a Version 1 (E209)	09/03/2020 12:00 AM	09/13/2020 11:59 PM (+2 d...	08/20/2020	Jill Rosenthal
☆	E10748	Preview	Assign	...	MSK R1a Version 2 (E324)	05/01/2020 12:00 AM	09/06/2020 11:59 PM (+2 d...	08/20/2020	Jill Rosenthal

Showing 5 of 5

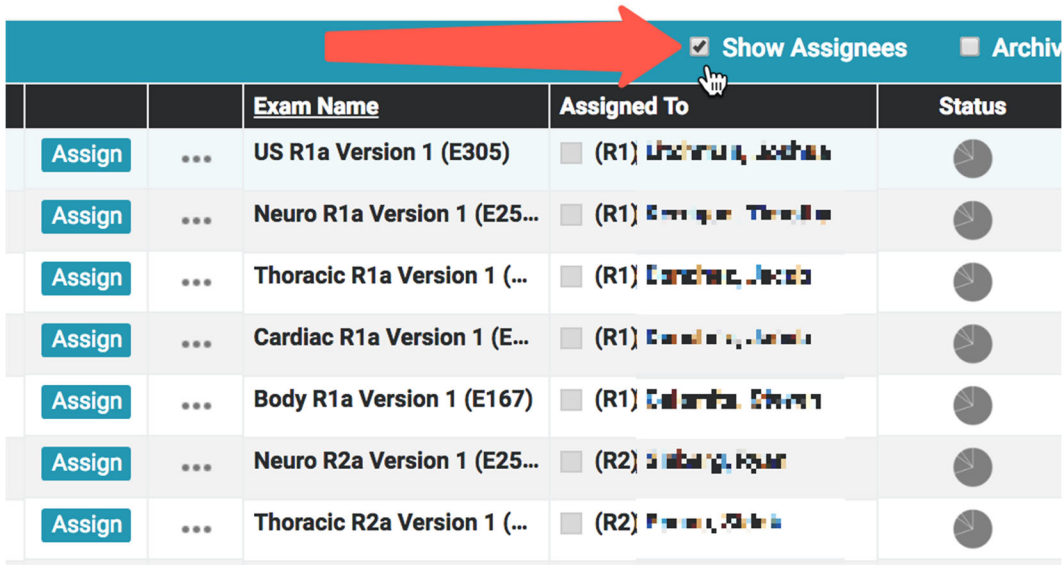


EMAILS TO RESIDENTS

1. Day the exam starts
2. Last day of the exam
3. When exam is overdue (they can ask the PC for an extension which you can change on the table above)

TO SEE INDIVIDUAL RESIDENT ASSIGNMENTS

Click on 'Show Assignees'



The screenshot shows a table with a teal header bar. In the header bar, there is a checkbox labeled 'Show Assignees' which is checked, and a button labeled 'Archive'. A red arrow points from the left towards the 'Show Assignees' checkbox. Below the header bar is a table with the following columns: 'Exam Name', 'Assigned To', and 'Status'. Each row in the table starts with an 'Assign' button and an ellipsis '...'.

		Exam Name	Assigned To	Status
Assign	...	US R1a Version 1 (E305)	(R1) [Name]	
Assign	...	Neuro R1a Version 1 (E25...)	(R1) [Name]	
Assign	...	Thoracic R1a Version 1 (...)	(R1) [Name]	
Assign	...	Cardiac R1a Version 1 (E...)	(R1) [Name]	
Assign	...	Body R1a Version 1 (E167)	(R1) [Name]	
Assign	...	Neuro R2a Version 1 (E25...)	(R2) [Name]	
Assign	...	Thoracic R2a Version 1 (...)	(R2) [Name]	

TO SEE RESIDENT RESULTS OF COMPLETED EXAMS

Show Assignees
 Archived Exams Only

Fav.	ID	Exam Name	Assigned To	Status	Start Date/Time
☆	E3490	Body R1a Version 1 (E1...	(R1)	Completed	07/2018 01:00 AM
☆	E3490	Body R1a Version 1 (E1...	(R1)	Completed	04/2018 12:00 AM
☆	E3490	Body R1a Version 1 (E1...	(R1)	Completed	05/30/2018 00 AM
☆	E3490	Body R1a Version 1 (E1...	(R1)	Completed	06/27/2018
☆	E107...	Body R2a Version 1 (E1...	(R2)	Completed	07/25/2018 12:00
☆	E3491	Body R2a Version 1 (E1...	(R2)	Completed	03/07/2018 01:00 AM

2
Click on the status icon for any completed exam (showing green box)

1
Click archived exams

Body R2a Version 1 (E170)

Name	Examinee Level	Institution Name	Status	Review	Score (%)
Winking, Kyle	R2	Dartmouth-Hitchco...	Completed	Review	82

Click to see what questions were answered

Click to review exam with resident (see later section)

3
Show and hide scores

Hide Scores

REMOVING AND EDITING SCHEDULES

Schedules can be edited (dates, times, residents) by clicking on the start or due date on the schedules table. Exams can be deleted by clicking on the 3 dots...delete. If the exam is currently active you will be given a warning as you may erase all examinee data for that schedule

The image shows a screenshot of an exam schedule table. The table has columns for 'Exam Name' and 'Status'. A dropdown menu is open for the 'IR R1a Version 2 (E224)' exam, showing options: 'Question Details', 'Edit/Modify', and 'Delete'. Two red callout boxes provide instructions: one points to the three-dot menu icon and says 'Click here to bring up the menu and then delete', and the other points to the 'Delete' option and says 'If the exam is currently active, you will be given a warning about deleting all current results. If only one resident needs to be removed, use 'Edit/modify''. The table also shows other exams like 'Body R1a Version 1 (E167)', 'US R1a Version 1 (E305)', 'E309', 'E273', and 'E243'. A score of '1.00' is visible in the top right corner.

		Exam Name	Status
	Assign	Body R1a Version 1 (E167)	
☆	E3601	US R1a Version 1 (E305)	
☆	E3544	IR R1a Version 2 (E224)	
☆	E3603	E309	
☆	E3587	E273	
☆	E3572	E243	
☆	E3600	Body R1a Version 1 (E167)	

The Reports Page

This can take a few seconds to load as it has to process the data

NOTE: on all reports pages, the date selection also affects the comparative national data (means, SD and percentile rank). To give a more accurate comparison, we recommend that you widen the date window to 6-12 months.

INDIVIDUAL

Individual Reports Individual Institutional [Reset Filters](#)

** Percentile ranks are reported for each individual within their resident year or fellowship*

August 09, 2019 - September 08, 2020 [Select Section](#) [All Exams\(Avg\)](#) [Select Exam Level](#)

Users	Score (Avg)	Percentile Rank (National)
(R1)	59	15.2 (831)
(R1)	37	0.4 (831)
(R1)	53	6 (831)
(R1)	69	44 (831)
(R1)	80	84.8 (831)
(R2)	83.2	90.6 (972)
(R2)	70.4	33.8 (972)
(R2)	73.6	51.3 (972)
(R2)	76.8	68.3 (972)
(R2)	74.1	54.9 (972)
(R3)	7	25.4 (972)

[Export](#)

Callout Boxes:

- Filter the dates this report applies to
- Switch between individual and institutional reports
- Filter by section, exam or level, note reset filters button
- Click on resident names to get details of all exams
- Mean score across ALL exams unless filters are used
- Percentile rank nationally for their level. Only reported if >100 exams taken nationally
- Export the data on this screen as a PDF or Excel file

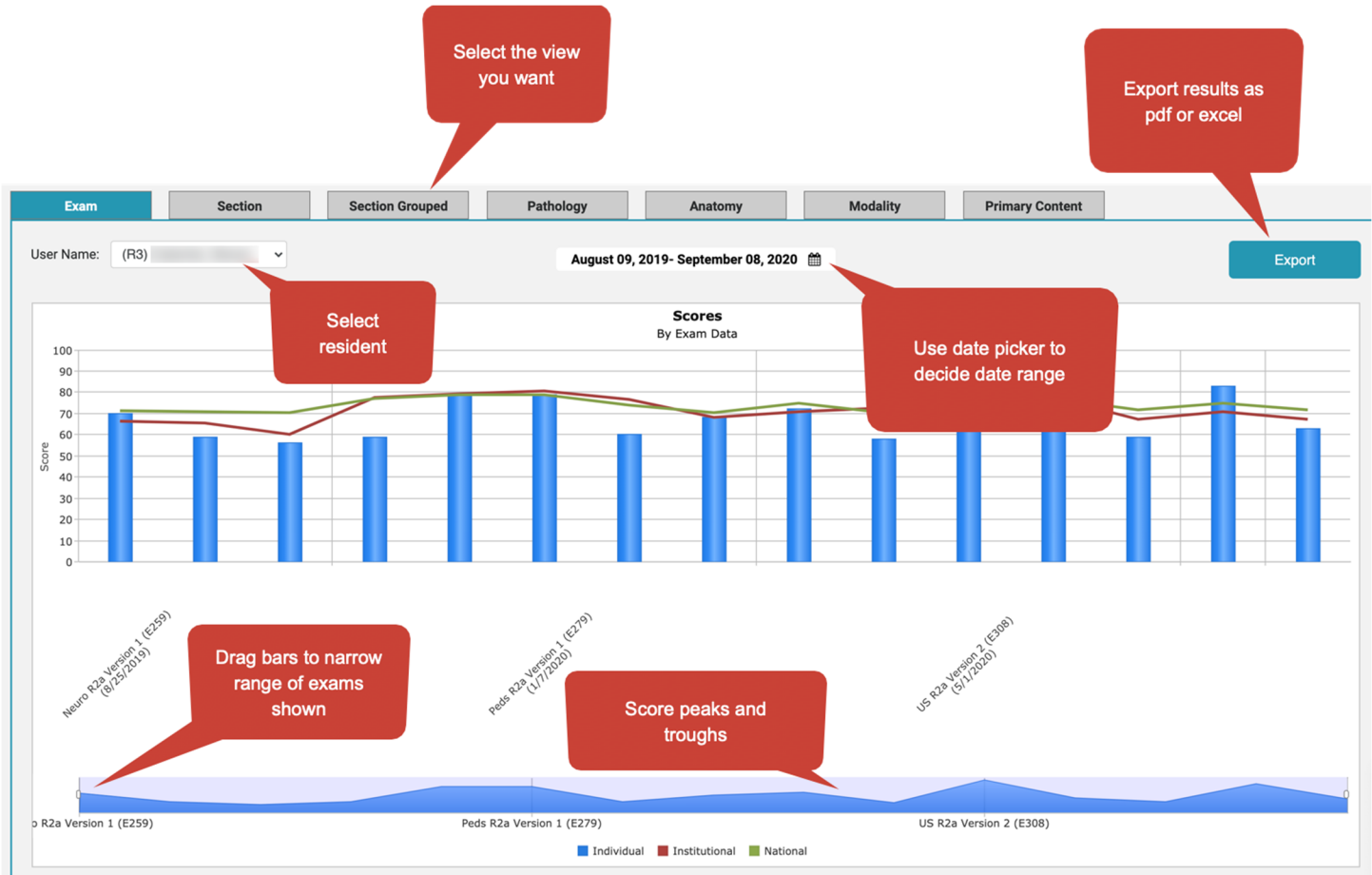
Individual Detail Report

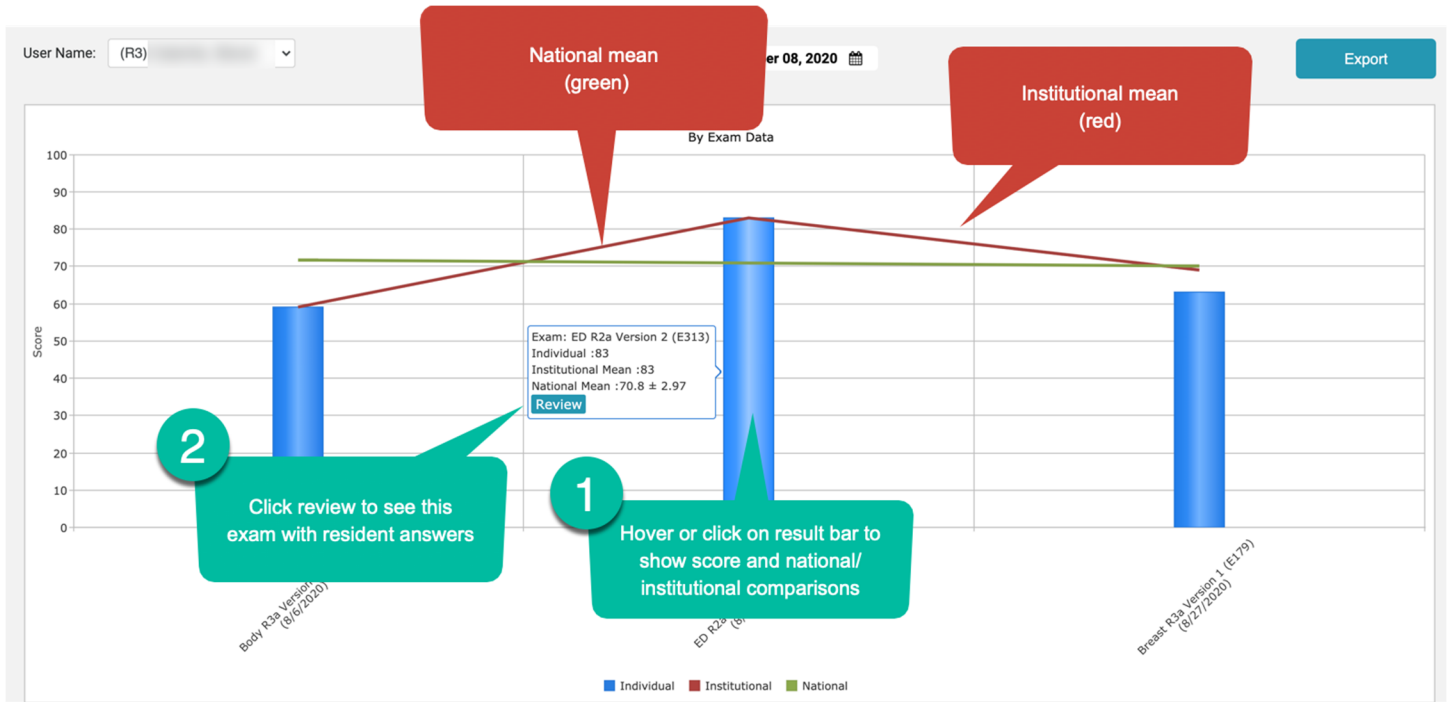
Accessed by clicking on Report...Individual...Resident's name

Data can be looked at in 4 different views by selecting the top right button

Grouped by Exam

NOTE: on all reports pages, the date selection also affects the comparative national data (means, SD and percentile rank). To give a more accurate comparison, we recommend that you widen the date window to 6-12 months.



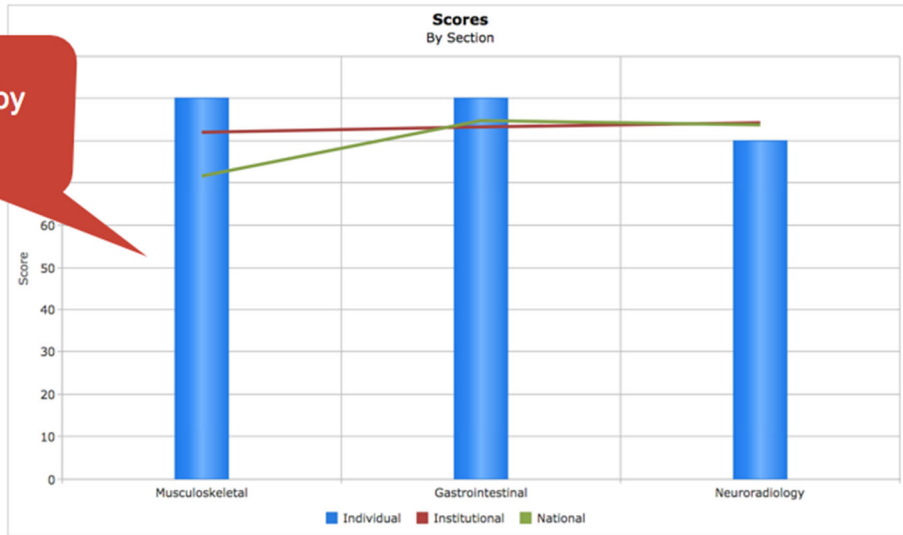


Exam means by section

Note, the date range and comparison criteria apply

Exam **Section** Section Grouped Modality Individual Institutional User Name: (P) Becker, Allison

All exams mean by section



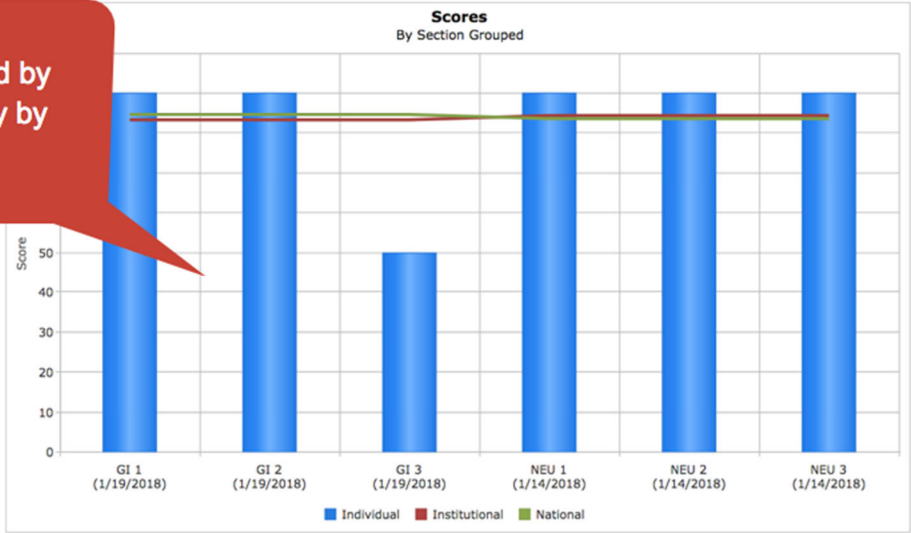
Exams grouped by section

Individual Institutional

Exam Section **Section Grouped** Modality

User Name: (R3)

Exams are grouped by section sequentially by date

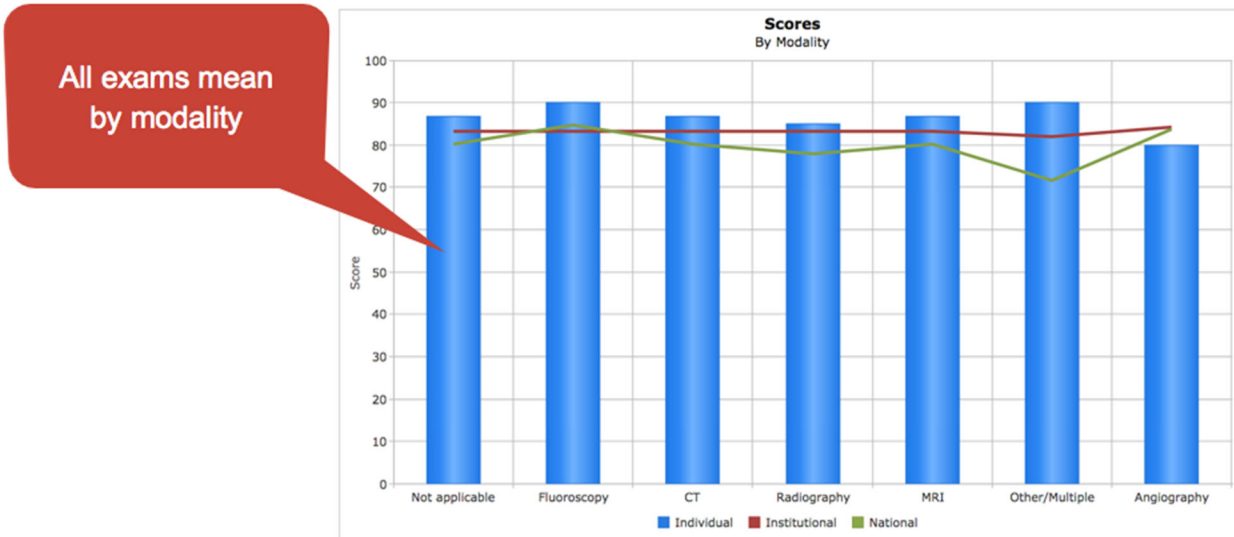


Exam means by modality

Individual Institutional

Exam Section Section Grouped **Modality**

User Name: (R3) *Richard Allison*



Exam means by Pathology, Anatomy and Primary Content

Similar graphs can be obtained by clicking on the Pathology, Anatomy or Primary Content tabs on the top bar

Exam Section Section Grouped **Pathology** Anatomy Modality Primary Content

INSTITUTIONAL REPORTS

Accessed by Reports...Institution

NOTE: on all reports pages, the date selection also affects the comparative national data (means, SD and percentile rank). To give a more accurate comparison, we recommend that you widen the date window to 6-12 months.

The screenshot shows the RadExam Institutional Reports page. At the top, there is a navigation bar with 'RadExam' on the left and 'Dashboard', 'Library', 'Schedules', 'Reports', 'Residents/Fellows', 'Create New Exam', and 'Petra Lewis' on the right. Below this is a sub-header with 'Institutional Reports' and tabs for 'Individual' and 'Institutional'. A date range 'June 05, 2017 - January 20, 2018' is selected. There are three dropdown menus for 'All Sections', 'All Exams', and 'All Residents & Fellows'. An 'Export' button is visible. A bar chart titled 'All Residents & Fellows | All Sections | All Exams' compares 'Dartmouth-Hitchcock Medical Center Average' (blue bars) and 'National Average' (green bars) for GI, MSK, and NEU sections. A 'Support' button is in the bottom right corner.

Title will show what results are being displayed

Filter by section, exam or level, note reset filters button

Filter by dates

Your institution's results (blue) compared to national results (green) for the filtered data

Export the data on this screen as a PDF or Excel file

Section	Dartmouth-Hitchcock Medical Center Average	National Average
GI	~82	~85
MSK	~82	~72
NEU	~85	~85

Make Your Own Exam Page

You can make your own exam using the database of questions. These exams will only be available to residents and faculty at your institution. **They will not have national comparative data, only institutional.** Draft exams are under 'My Exams' and can be moved to the regular library when completed. They can be removed from the library back into drafts (My Exams) for further editing if required.

The screenshot shows the 'My Exams' section of the RadExam interface. A 'Create New Exam' button is highlighted with a red callout labeled '1 Make a new exam'. Below it is a table of 'Institutional Draft Exams' with columns for Fav, ID, Exam Name, Section, Exam Level, # Questions, and Source. Each row has a 'Preview' button and a 'Move to Library' button. A red callout labeled '2' points to the 'Move to Library' button, stating: 'When complete, clicking here will move the exam to your library so it can be deployed. It will only be visible to faculty at your institution'. Another red callout labeled '3' points to the 'Preview' button, stating: 'Preview exam in resident mode'. A red callout labeled '4' points to the 'Move to Library' button, stating: 'Clicking here will bring you to your draft exams'. A red callout labeled '5' points to the 'Preview' button, stating: 'Question details, add and remove questions'.

Fav	ID	Exam Name	Section	Exam Level	# Questions	Source	
☆	E3512	Breast R4a Version 1 (E181) OLD NOT CUR...	Breast	R4	32	APDR	Move to Library
☆	E3567	IR R5a Version 1 (E229)	Interventional radiol...	R5	32	APDR	Move to Library
☆	E3645	PJL Physics test for RadExam NEW Q	Physics		7	Dartmouth Hitchco...	Move to Library
☆	E3646	PJL Physics test for RadExam-Copy-Copy	Physics		3	Dartmouth Hitchco...	Move to Library
☆	E63548	petras test breast exam	Breast	R2,R3	9	Dartmouth Hitchco...	Move to Library
☆	E63842	another test exam	Gener...			outh Hitchco...	Move to Library
☆	E69866	petras webinar exam	Nuclea...			outh Hitchco...	Move to Library

MAKING A NEW EXAM

Click Create New Exam button.

The 'New Exam' form contains the following fields:

- Name: * Breast MRI
- Description: * Breast MRI only
- Exam Rotation: * Breast
- Exam Difficulty: * R4
- Timed Exam: HH 01 : MM 00

Callouts:

- Callout '2' points to the Description field: 'Complete all fields'
- Callout '3' points to the 'Add Question' button.

ADDING/REMOVING QUESTIONS

Use the filters on the right to bring up questions in the database. Multiple filters can be added. **NOTE:** These filters are in process of being refined, and you may need to select several to come up with the questions you want (e.g. MRI versus Magnetic Resonance Imaging)

1 Use filters to define question list

2 Click on topic to preview question

3 Select Q to go into exam

4 Move to exam

5 Preview exam

6 When questions added move to drafts or library if ready to deploy

Question statistics

Remove from exam

To Exam

QID	Topic	Administrations	Average P-Value
32410	Question 1	0	0
32411	Question 1	0	0
32412	Question 2	0	0
32415	Question 21	0	0
39981	Mastectomy with flap reco...	53	0.98
39983	Identifying pectoralis mus...	53	0.55
39984	Misregistration artifacts o...	127	0.87
39991	Appropriate time for breas...	53	0.94
39996	MRI-directed ultrasound br...	53	0.81
39997	Breast cancer staging (sta...	53	0.55
40009	Breast MRI indications	53	
40014	Extent of disease evaluatio...	16	
40025	fibroadenoma on breast MRI	16	
40030	Misregistration artifacts d...	16	
40032	Breast MRI background pa...	334	
40048	BRCA screening recomme...	16	0.75
40084	Anterior mediastinal mass	208	0.95
40103	intracapsular Implant rupt...	208	0.94

QID	Topic	Rows: 9
1 37787	Palpable breast cyst	✗
2 38044	Triangulation of breast m...	✗
3 39538	Additional views for full e...	✗
4 39608	Digital radiography advan...	✗
5 39633	silicone implant rupture o...	✗
6 39648	digital mammography vol...	✗
7 39634	Increasing Mhz of transd...	✗
8 39637	resistive index - Doppler c...	✗
9 39638	ultrasound breast gray sc...	✗

MOVING A PERSONAL EXAM FROM LIBRARY TO DRAFTS

1 In library click here

2 Move back to My Exams and edit

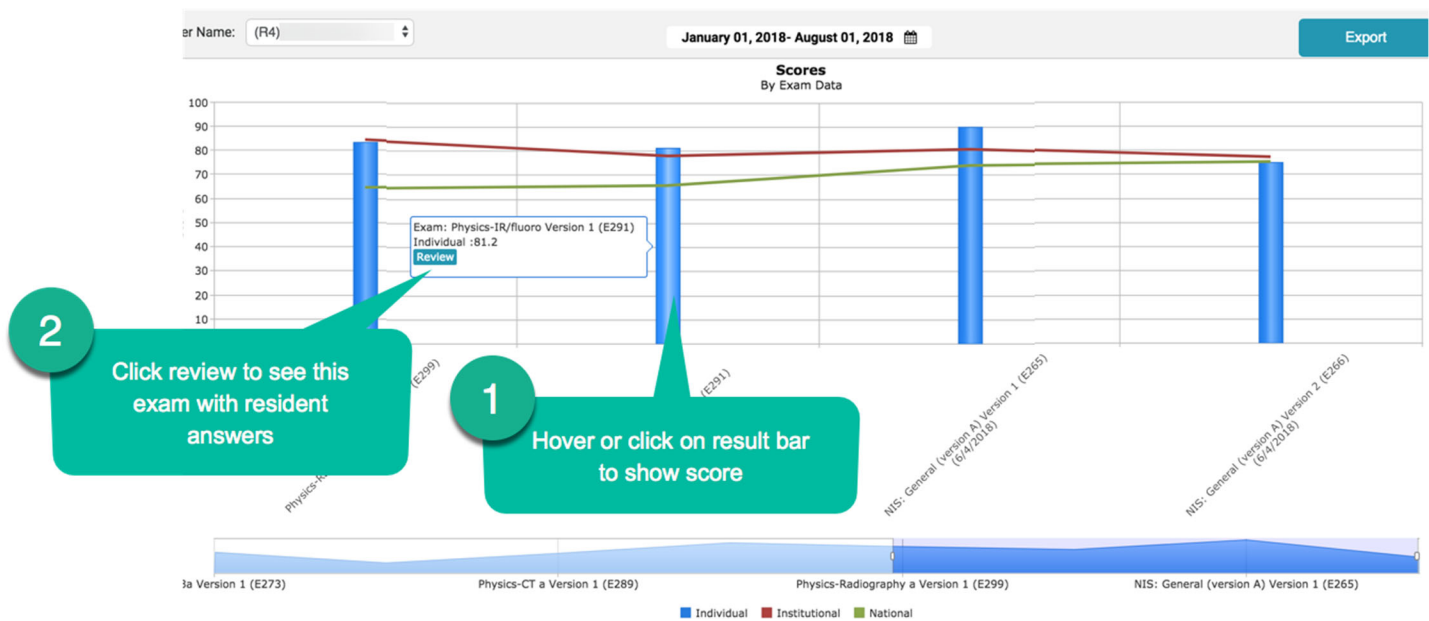
Fav.	ID	Preview	Assign	Exam Name	Section
☆	E63548	Preview	Assign	petras test breast exam	Breast
☆	E58654	Preview	Assign	Question Details	essmen...
☆	E56072	Preview	Assign	View Schedule	11 (E37...
☆	E56135	Preview	Assign	Move to "My Exams"	Protocols version 1 (E37...

Reviewing resident exams

Residents have 30 mins to review exams after they complete the exam. After they logout they cannot go back into review exams. The following instructions should *only* be used with faculty login under supervision. Residents should NOT be given faculty login details.

The interface can be accessed from 2 places:

1. [The schedules page](#)
 2. The individual reports pages (Exam, Section or Section Grouped).
- To review the exam, click on the result bar...then review



This will bring up the resident's exam in a new tab for them/you to review

The screenshot displays a medical education interface. On the left, a vertical list of cases from Case 1 to Case 17 is shown, with green checkmarks for cases 2-5 and 11, and red X marks for cases 6-10. At the top, a navigation bar includes 'Prev case', '1 of 32', and 'Next case' buttons. The main area is divided into three sections: a 'Question' section with text, a '% Peer Selection' table, and a large ultrasound image labeled 'TRANS UTERUS'. The peer selection table shows the following data:

Option	% Peer Selection
✓ The fibroid is...	81%
✗ The fibroid is...	0%
✗ The fibroid is...	18%
✗ The fibroid is...	0%

At the bottom of the interface, there are icons for search, chat, zoom (1:1), and other controls.

Navigation bar

Residents can select to see correct, incorrect or all answers

The correct answer, explanation and the breakdown of all resident answers is shown

Institutional Portal Interface

The institutional portal is where both residents and faculty will take exams and other activities. This can be found at <https://cortex.acr.org/RESRadExam>
Login is via the same ACR login and Password (retrieve at: <https://login.acr.org/ForgotPasswordLookup.aspx>).

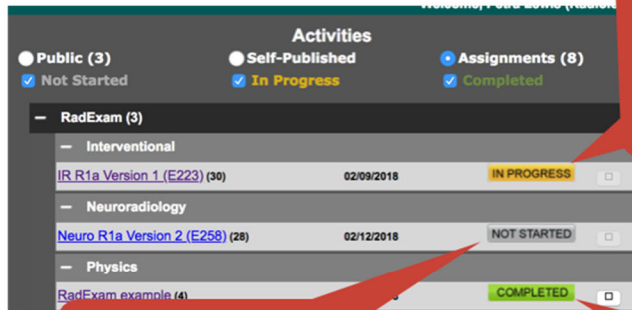
The screenshot displays the 'Individual Assignments' section of the institutional portal. It features three main tables of assignments, each with columns for Assignment Name, Course, Category, Start Date, End Date, and Status. The first table, 'RadExam', shows an assignment 'Body_R4a Version 1_(E173)' with a status of 'Not Started'. The second table, 'Dartmouth Hitchcock Medical Center', shows 'Practice physics_exam' as 'Completed'. The third table, 'Radiology TEACHES', shows 'Hitchcock Beta TEACHES Access' and 'Hitchcock Pretest' as 'Completed'. A 'Support' button is visible on the right side of the interface.

Callout boxes provide the following information:

- All RadExam assignments will appear here when they are available to take** (points to the RadExam table)
- Click on exam to start** (points to the 'Not Started' button)
- Your score report can be seen by clicking here after exam completion** (points to the 'Completed' button)
- Old reports can be found here** (points to the 'Reports' menu item)
- You may or may not have other assignments from other Cortex products** (points to the 'MAH Product' link)
- Dates that you can take this exam between** (points to the Start and End Date columns)
- Click for any feedback and problems** (points to the 'Support' button)

Status levels

Currently 'In progress' can mean that you are still taking the exam (within the time allotted), or that you did not answer all the questions. This will be remedied in future upgrades.



The screenshot shows a user interface for 'Activities' with three tabs: 'Public (3)', 'Self-Published', and 'Assignments (8)'. Under 'Assignments (8)', there are three status options: 'Not Started', 'In Progress', and 'Completed'. Below this, a list of exams is shown under the heading 'RadExam (3)'. The list includes:

Exam Name	Count	Date	Status
Interventional			
IR R1a Version 1 (E223)	(30)	02/09/2018	IN PROGRESS
Neuroradiology			
Neuro R1a Version 2 (E258)	(28)	02/12/2018	NOT STARTED
Physics			
RadExam example 4	(4)		COMPLETED

Either:
Exam that you are in the process of taking
(still in time and available to you)
OR
Exam that you did not answer all the
questions within the allotted time (no
longer available to you).

Exam open to be
taken but not yet
started

All questions
answered and exam
submitted or time
expired

****NOTE: ALL EXAMS MUST BE TAKEN WITHIN 60 MINUTES EXCEPT THE 2 HOUR PRECALL EXAM AND RECR3ATE EXAMS (3.5 hours each for A and B). IF THE RESIDENT LOGS OUT, THE CLOCK DOES NOT STOP****

HONOR CODE

RadExam has been developed as a non-proctored assessment resource and is administered under an honor code as a closed book examination. By clicking below, you agree that you will not download, photograph or convey the exam content in any form to others or seek or accept such content from others. You also understand that if you violate this agreement, that it will be seen as a significant professionalism issue by your Program Director and the APDR. It may result in you or your program being denied access to RadExam for a period of time that would be defined by the APDR (in consultation with the RadExam Executive Committee).

RadExam provides standardized formative exams to enable residents and Program Directors to evaluate the resident's progress and knowledge gaps. These exams also allow Program Directors to analyze their program for sectional educational strengths and areas of educational weakness. The exam is intended to be a measure of general achievement in diagnostic radiology. It should not be used as the primary measure of examinees' performance in any postgraduate program or qualification for promotion to the next level of training or certification

QUESTION INTERFACE

After **ALL** questions have been answered, a **SUBMIT** button will become available. If you do not submit the exam before the time is up, then it will autosubmit after the one-hour time period.

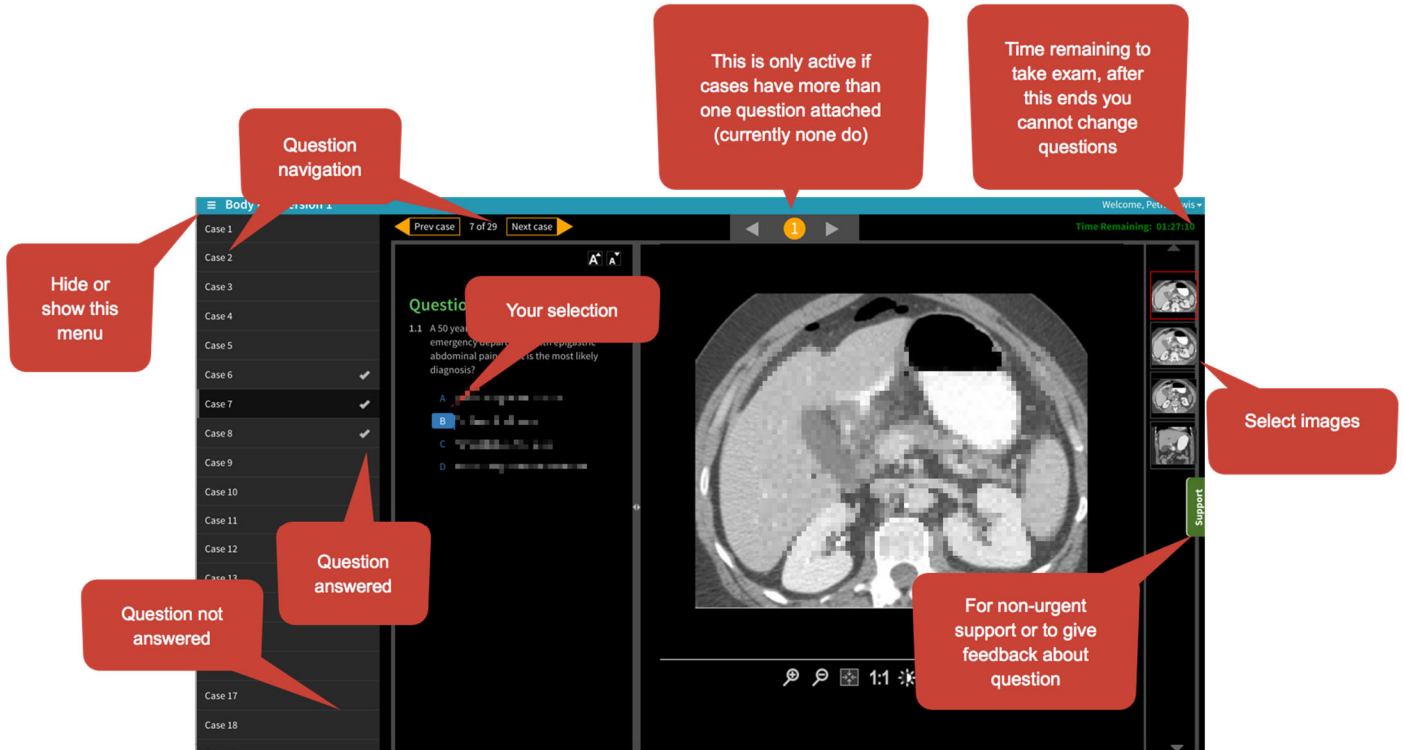
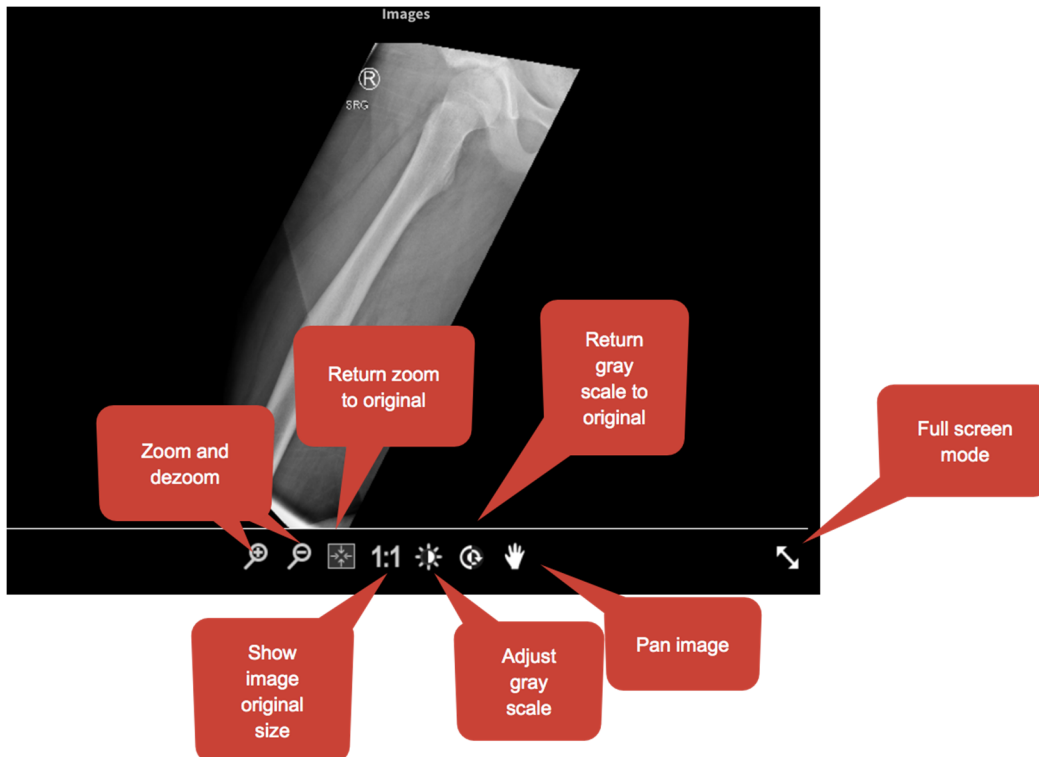


Image functions

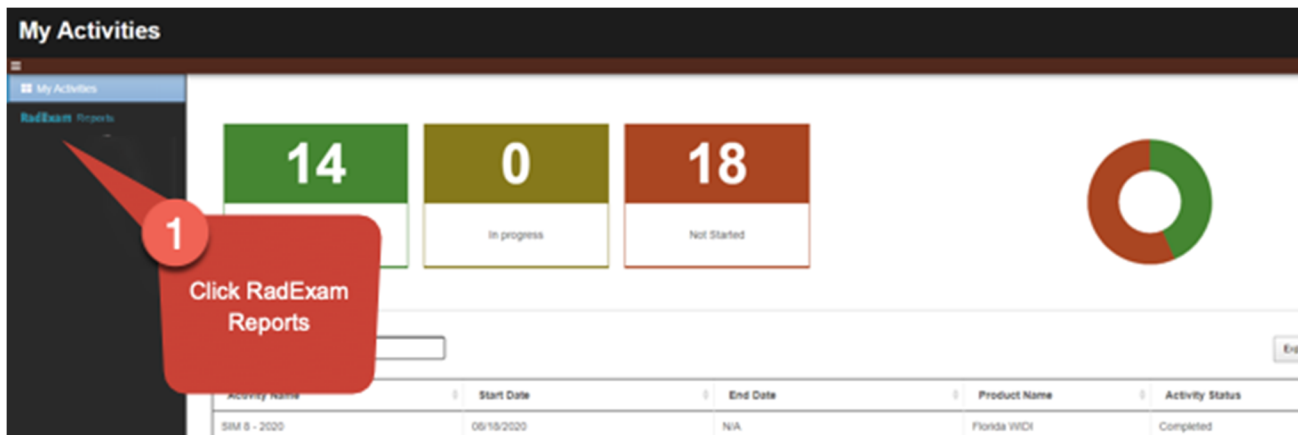
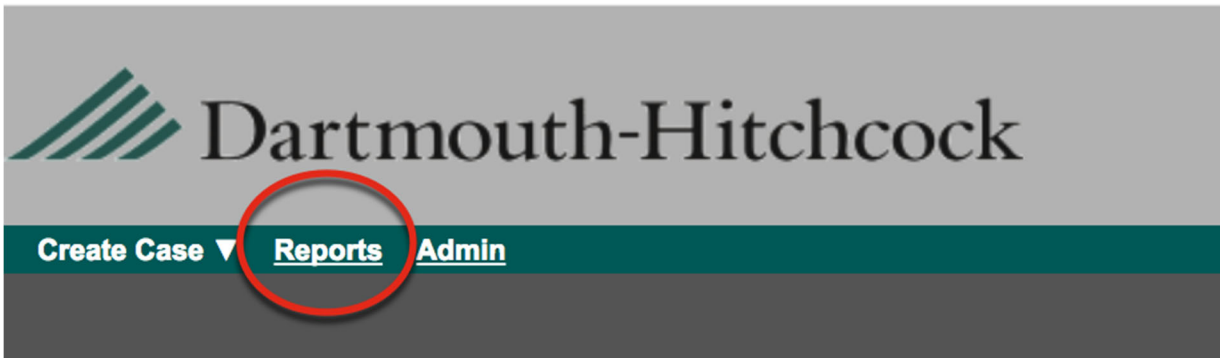


RESIDENT EXAM REVIEW

Residents have 30 mins to review exams with correct answers and explanations at the end of the exam. A minority of questions in RadExam do not have explanations but they are being gradually updated. If you logout, you cannot get back in to review exams, but will have to be reviewed with a faculty member.

RESIDENT ACCESS TO THEIR REPORTS

Only scores can be obtained, answers cannot be reviewed here for security reasons. Accessed through the 'Reports' tab on the main page.



Report detail



Support for residents and exam feedback

Accessed by the green tabs. Please tell us the exam you are having an issue with by emailing cortexsupport@acr.org



Click green support tab for feedback about questions or the exam

Support & Feedback

Search Articles

yourname@email.com

your name

missing image

B *I* U [List] [List] [Link] [Image] [Link]

We seem to be missing an image from this question

Service Group

Send Feedback

Complete fields

Recommend you take screenshot of the question

Updated August 2023
petra.lewis@hitchcock.org