

QPATH: logging your scans!

the way of the future.....



We all need to learn how to use QPATH, because that's what we have.

Goals

How to:

- Access QPATH
- Review/manage exams
- SPLIT exams
- Submit for QA

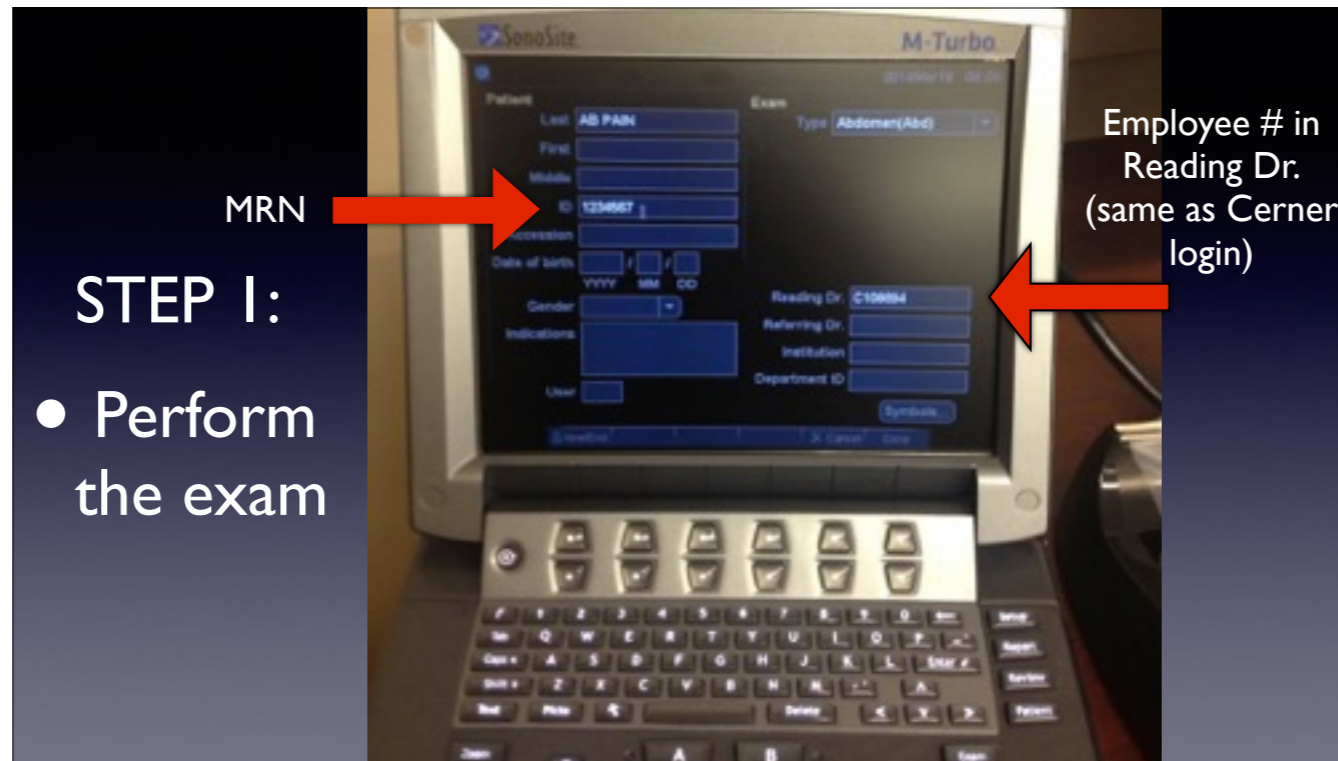


CAVEAT



- Oney ofay isthay illway akemay ensesay tilunay ouyay tuallycay oday itay.
- Translation: None of this will make sense until you actually do it

You will probably see or read this entire presentation without fully understanding what you need to do, but after you do it a few times it will become more clear.

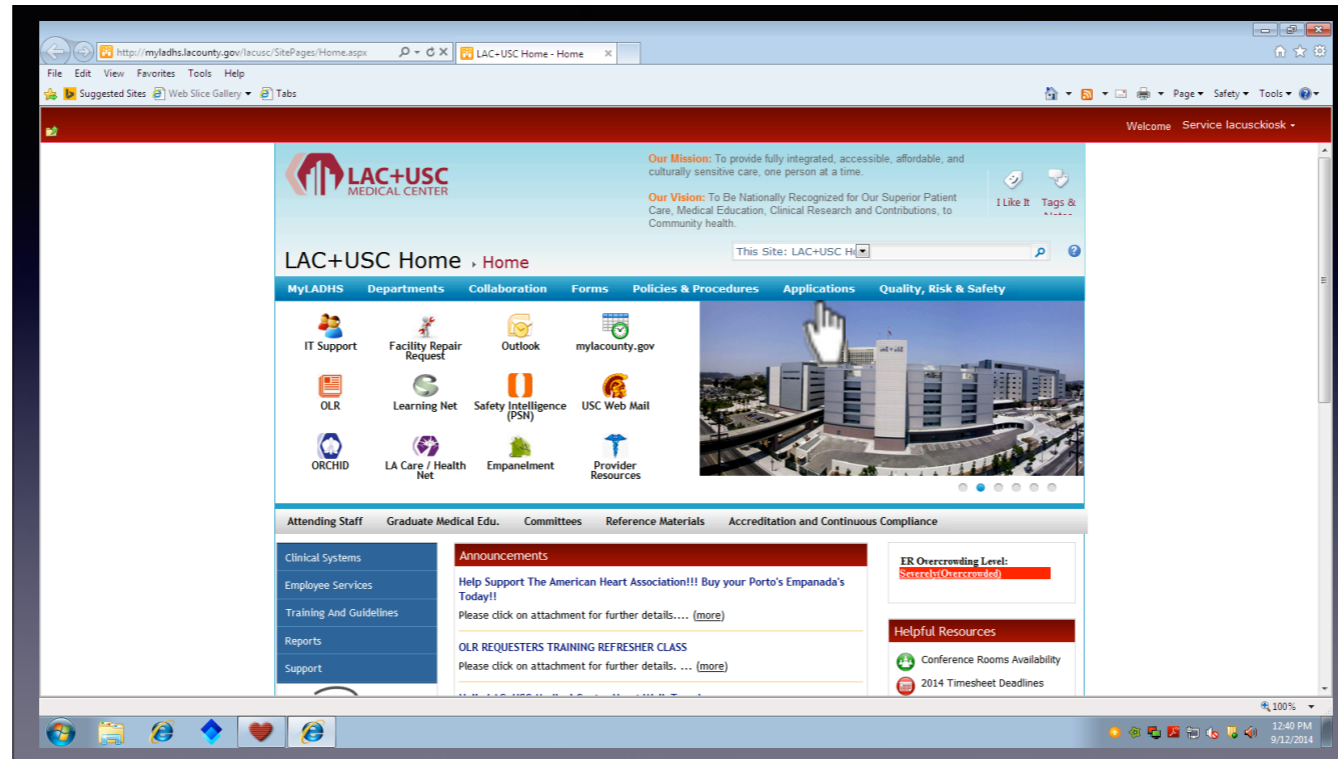


Find the ultrasound and enter your info prior to performing exam

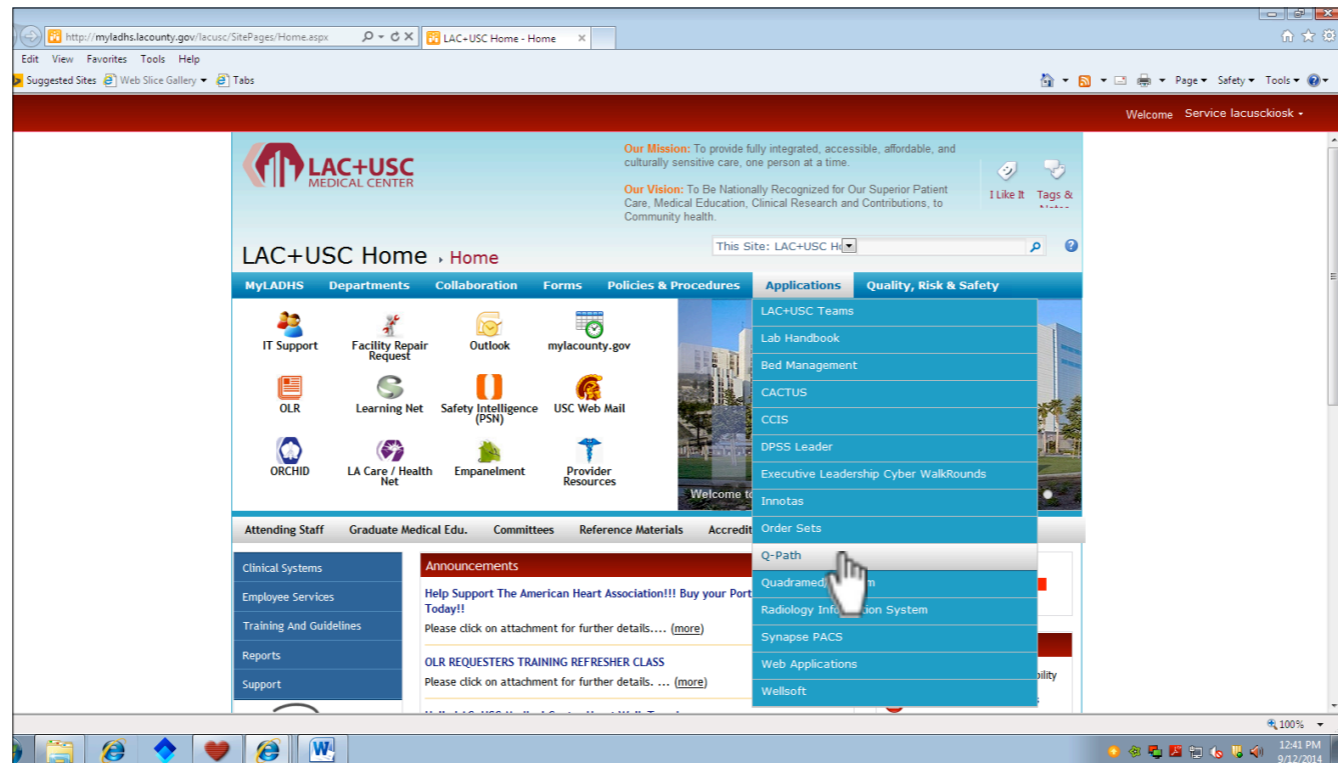
STEP 2

- Accessing QPATH

QPATH is only accessible at LAC on work computers, just go to the home page, scroll down, and select QPATH from the applications tab.



From main desktop, hit internet explorer or “my lacounty” and this screen pops up. If it doesn’t hit the “home” icon. Select Applications.



Scroll down and select QPATH

STEP 3: Logging In



The screenshot shows a web browser window titled "Sign in" for "LAC+USC Emergency Medicine Ultrasound". The page contains a key icon, a prompt to enter a username and password, and two input fields labeled "Login name:" and "Password:". A link for "Forgot your password?" is also present. The "Q-path" logo is in the bottom left, and an "OK" button is in the bottom right.

It will take you to the website and this login screen will show up.

STEP 3: Logging In



Sign in

LAC+USC Emergency Medicine Ultrasound

Please enter your username and password

Login name:

Password:

[Forgot your password?](#)



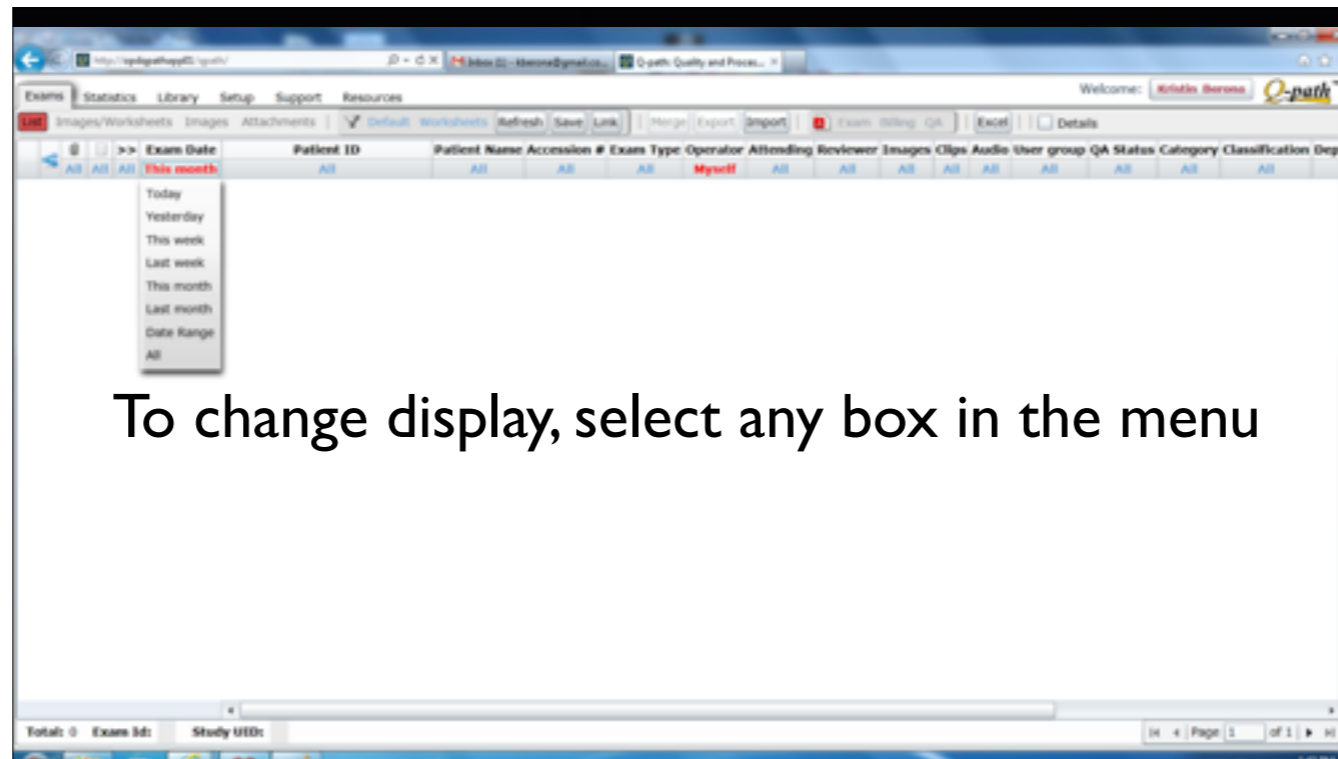
should be same password as Cerner/Synapse

Enter your e-number and Password. For most people logging in the first time your password will be as above.

First screen

Exam Date	Patient ID	Patient Name	Accession #	Exam Type	Operator	Attending	Reviewer	Images	Clips	Audio	User group	QA Status	Cate
5/22/2014	[REDACTED]	LEG		Nerve Block	Berona, Kristin	N/A	N/A	5	10	0	Fellow	Not submitted	
5/22/2014	[REDACTED]	AB PRN		Biliary	Berona, Kristin	N/A	N/A	13	5	0	Fellow	Not submitted	
5/22/2014	[REDACTED]	AB PRN		Biliary	Berona, Kristin	N/A	N/A	12	6	0	Fellow	Not submitted	
5/22/2014	[REDACTED]	VP SHUNT		FAST	Berona, Kristin	N/A	Childs, Jeanne	15	8	0	Fellow	Complete	
5/22/2014	[REDACTED]	VP SHUNT		Renal	Berona, Kristin	N/A	Childs, Jeanne	5	1	0	Fellow	Complete	
5/22/2014	[REDACTED]	KNEE		MSK	Berona, Kristin	N/A	Childs, Jeanne	3	1	0	Fellow	Complete	
5/22/2014	[REDACTED]	SOB		Cardiac	Berona, Kristin	N/A	N/A	6	24	0	Fellow	Not submitted	
5/22/2014	[REDACTED]	qPERFO VISCUS		Biliary	Berona, Kristin	N/A	N/A	8	23	0	Fellow	Not submitted	
5/22/2014	[REDACTED]	qPERFO VISCUS		Cardiac	Berona, Kristin	N/A	Walsh, Thomas	1	3	0	Fellow	Complete	
5/22/2014	[REDACTED]	THROAT PRN		Generic	Berona, Kristin	N/A	Childs, Jeanne	6	3	0	Fellow	Complete	
5/22/2014	[REDACTED]	AB PRN		Biliary	Berona, Kristin	N/A	N/A	13	0	0	Fellow	Not submitted	
5/22/2014	[REDACTED]	AB PRN		FAST	Berona, Kristin	N/A	Childs, Jeanne	7	0	0	Fellow	Complete	
5/22/2014	[REDACTED]	AB PRN		Renal	Berona, Kristin	N/A	Childs, Jeanne	8	0	0	Fellow	Complete	
5/22/2014	[REDACTED]	AB PRN		Aorta	Berona, Kristin	N/A	Childs, Jeanne	6	2	0	Fellow	Complete	
5/22/2014	[REDACTED]	AB PRN		Biliary	Berona, Kristin	N/A	Childs, Jeanne	1	3	0	Fellow	Complete	
5/22/2014	[REDACTED]	HERNSA		Biliary	Berona, Kristin	N/A	N/A	12	10	0	Fellow	Not submitted	
5/22/2014	[REDACTED]	HERNSA		FAST	Berona, Kristin	N/A	Childs, Jeanne	7	0	0	Fellow	Complete	
5/22/2014	[REDACTED]	HERNSA		Biliary	Berona, Kristin	N/A	Childs, Jeanne	3	1	0	Fellow	Complete	

First screen will look like this, depending what your defaults are set to. It will be a list of exams done, by date.



To change display, select any box in the menu

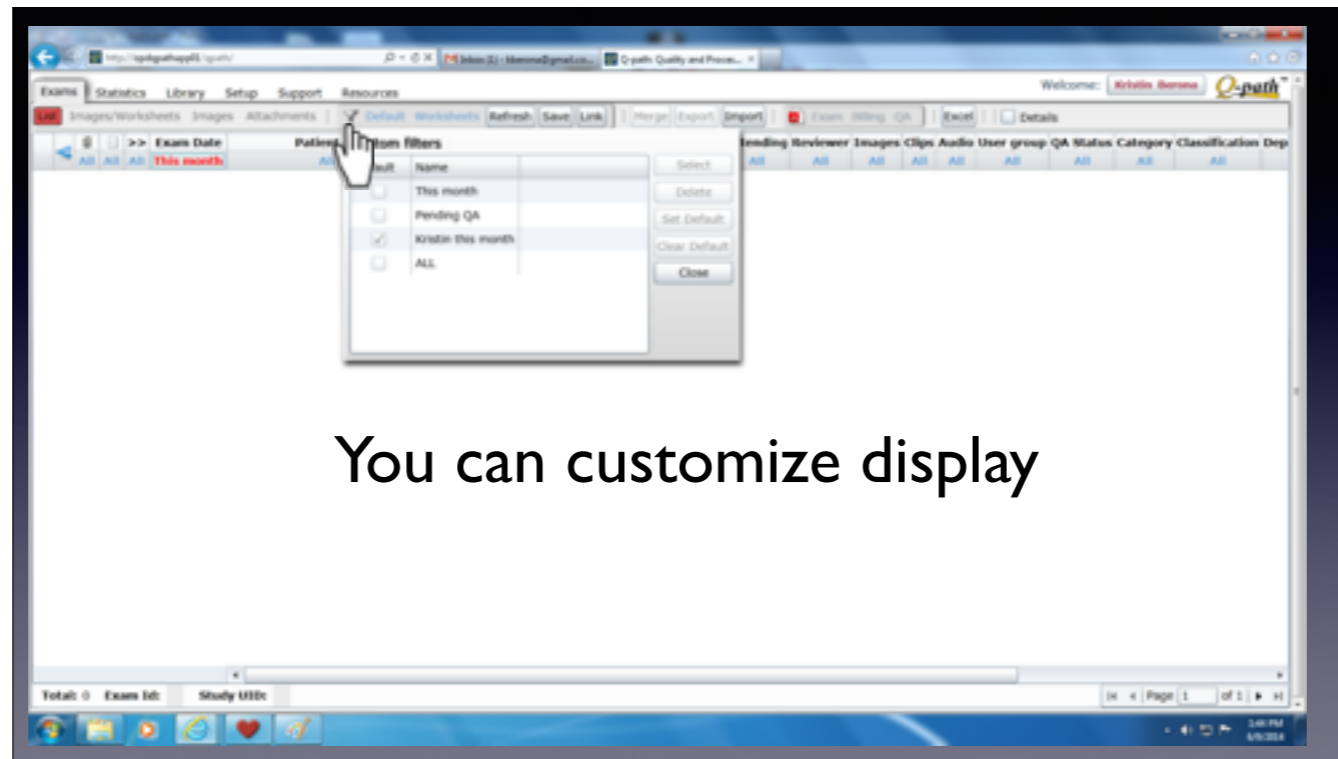
You can control what shows up by clicking in the box underneath the column label. Here selecting “This month” shows you the different options

Exam Date	Patient ID	Patient Name	Accession #	Exam Type	Operator	Attending	Reviewer	Images	Clips	Audio	User group	QA Status
5/27/2014	[REDACTED]	LEG		Nerve Block	Berona, Kristin	N/A	N/A	5	10	0	Fellow	Not submitted
5/27/2014		AB PAIN		Biliary	Berona, Kristin	N/A	N/A	13	5	0	Fellow	Not submitted
5/28/2014		AB PAIN		Biliary	Berona, Kristin	N/A	N/A	12	6	0	Fellow	Not submitted
5/29/2014		SOB		Cardiac	Berona, Kristin	N/A	N/A	6	24	0	Fellow	Not submitted
5/12/2014		OPPERFD VISCUS		Biliary	Berona, Kristin	N/A	N/A	8	23	0	Fellow	Not submitted
5/12/2014		HERNIA		Biliary	Berona, Kristin	N/A	N/A	12	10	0	Fellow	Not submitted

Total: 6 Exam Id: 18025 Study UID: 1.2.840.114340.3.8251017178113.1.20140527.113028.1349 Page 1 of 1

This is organized by QA status

Here is a selection organized by “not submitted” which we will get into.....



You can customize display

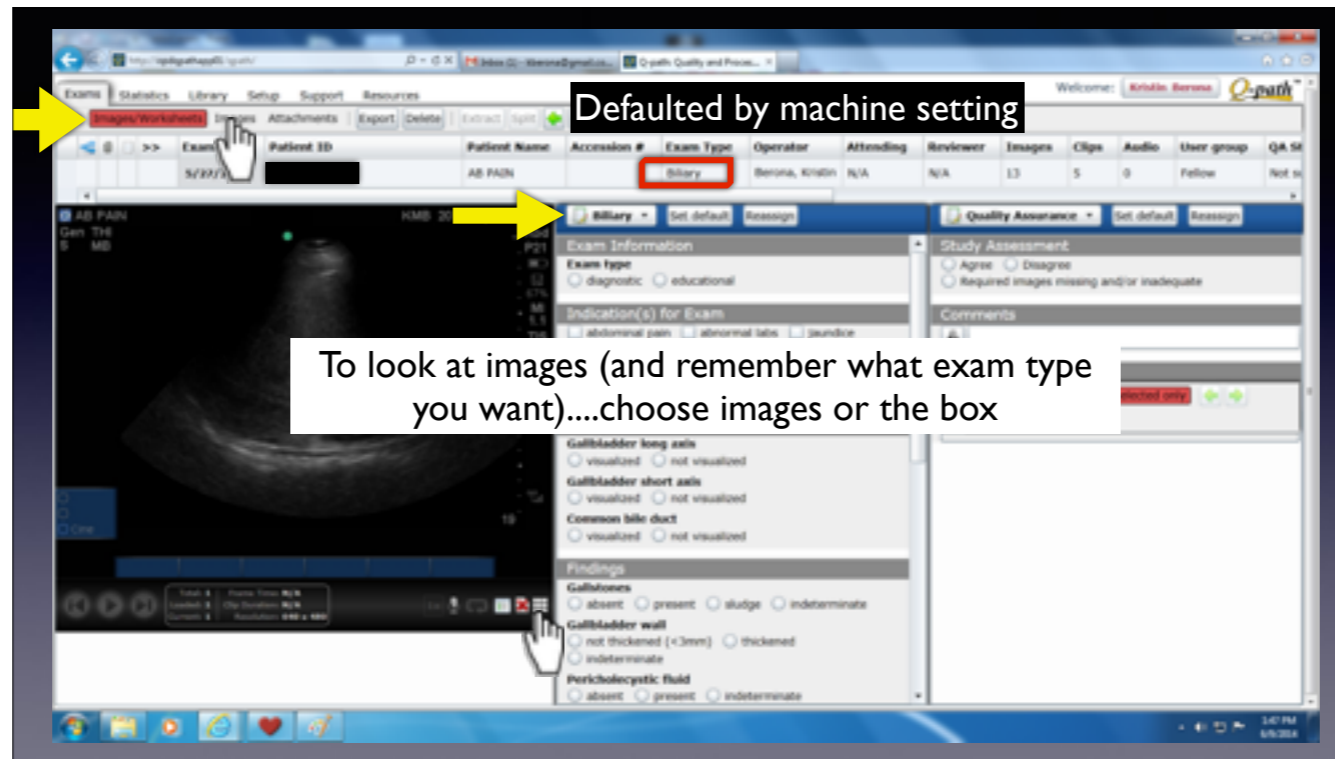
You can also customize your default display by hitting the little funnel next to "Default" in the menu bar

Step 4: Selecting an exam

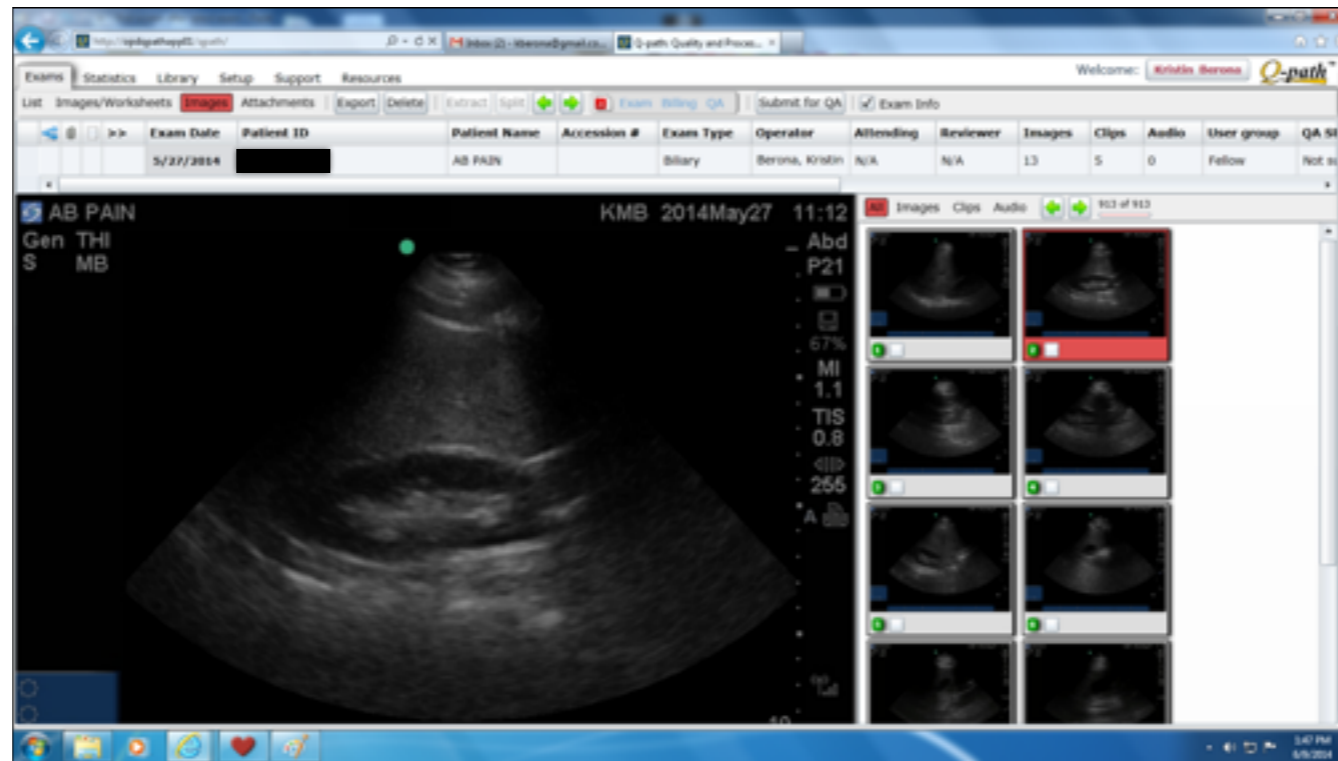
The screenshot shows a web application interface with a table of medical exams. The table has columns for Exam Date, Patient ID, Patient Name, Accession #, Exam Type, Operator, Attending, Reviewer, Images, Clips, Audio, User group, QA Status, and Date. A blue arrow points to the date '5/22/2014' in the 'Exam Date' column. A red box highlights the 'QA Status' 'Not submitted' for the corresponding row.

Exam Date	Patient ID	Patient Name	Accession #	Exam Type	Operator	Attending	Reviewer	Images	Clips	Audio	User group	QA Status	Date
5/22/2014		LEC		Nerve Block	Berona, Kristin	N/A	N/A	5	10	0	Fellow	Not submitted	
5/22/2014		AB PAIN		Biliary	Berona, Kristin	N/A	N/A	13	5	0	Fellow	Not submitted	
5/22/2014		AB PAIN		Biliary	Berona, Kristin	N/A	N/A	12	6	0	Fellow	Not submitted	
5/22/2014		VP SHUNT		FAST	Berona, Kristin	N/A	Childs, Jeannine	15	8	0	Fellow	Complete	
5/22/2014		VP SHUNT		Renal	Berona, Kristin	N/A	Childs, Jeannine	5	1	0	Fellow	Complete	
5/22/2014		KNEE		MSK	Berona, Kristin	N/A	Childs, Jeannine	3	1	0	Fellow	Complete	
5/22/2014		SOB		Cardiac	Berona, Kristin	N/A	N/A	6	24	0	Fellow	Not submitted	
5/22/2014		QPERFO VISCUS		Biliary	Berona, Kristin	N/A	N/A	8	23	0	Fellow	Not submitted	
5/22/2014		QPERFO VISCUS		Cardiac	Berona, Kristin	N/A	Mallhot, Thomas	1	3	0	Fellow	Complete	
5/22/2014		THROAT PAIN		Generic	Berona, Kristin	N/A	Childs, Jeannine	6	3	0	Fellow	Complete	
5/22/2014		AB PAIN		Biliary	Berona, Kristin	N/A	N/A	13	0	0	Fellow	Not submitted	
5/22/2014		AB PAIN		FAST	Berona, Kristin	N/A	Childs, Jeannine	7	0	0	Fellow	Complete	
5/22/2014		AB PAIN		Renal	Berona, Kristin	N/A	Childs, Jeannine	8	0	0	Fellow	Complete	
5/22/2014		AB PAIN		Aorta	Berona, Kristin	N/A	Childs, Jeannine	6	2	0	Fellow	Complete	
5/22/2014		AB PAIN		Biliary	Berona, Kristin	N/A	Childs, Jeannine	1	3	0	Fellow	Complete	
5/22/2014		HERNIA		Biliary	Berona, Kristin	N/A	N/A	12	10	0	Fellow	Not submitted	
5/22/2014		HERNIA		FAST	Berona, Kristin	N/A	Childs, Jeannine	7	0	0	Fellow	Complete	

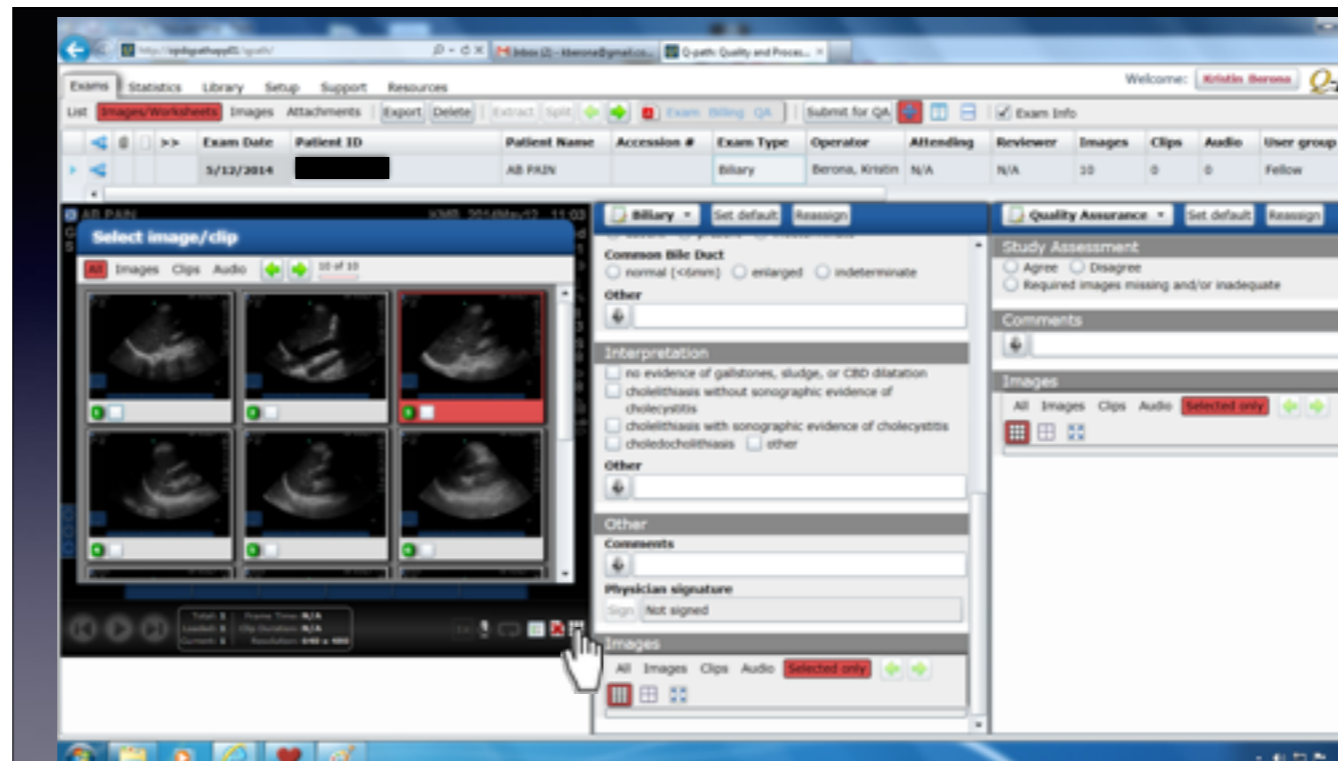
To select an exam, you just need to click on the date of the exam you want. Notice this one is “not submitted” under QA status



After you select the exam, this screen pops up, which is the “images/worksheets” screen. Notice that it is highlighted in red at the top left corner. Also notice that a “Biliary” work sheet autopopulates. This is based on the PROBE and EXAM TYPE on the US MACHINE at the time of the exam. However, perhaps you were not performing a biliary scan, but you don’t remember what type. You can either press “Images” in upper left corner to see the rest of the images in the series, or the 9 square box at the bottom of the US image



The images tab shows you the images in a larger screen



Or the small window shows other images within the same screen as the worksheet.

Changing the Grayscale

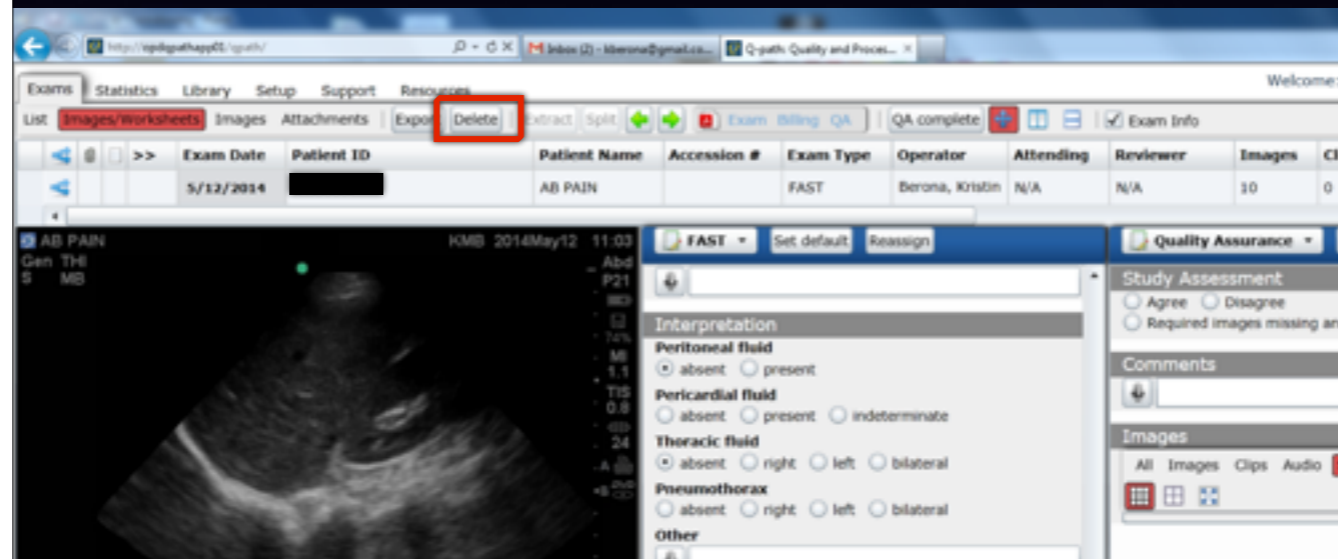


But the Images/Worksheets tab allows you to change the grayscale while viewing. Select the box in the bottom right hand corner with the green sliding bars....

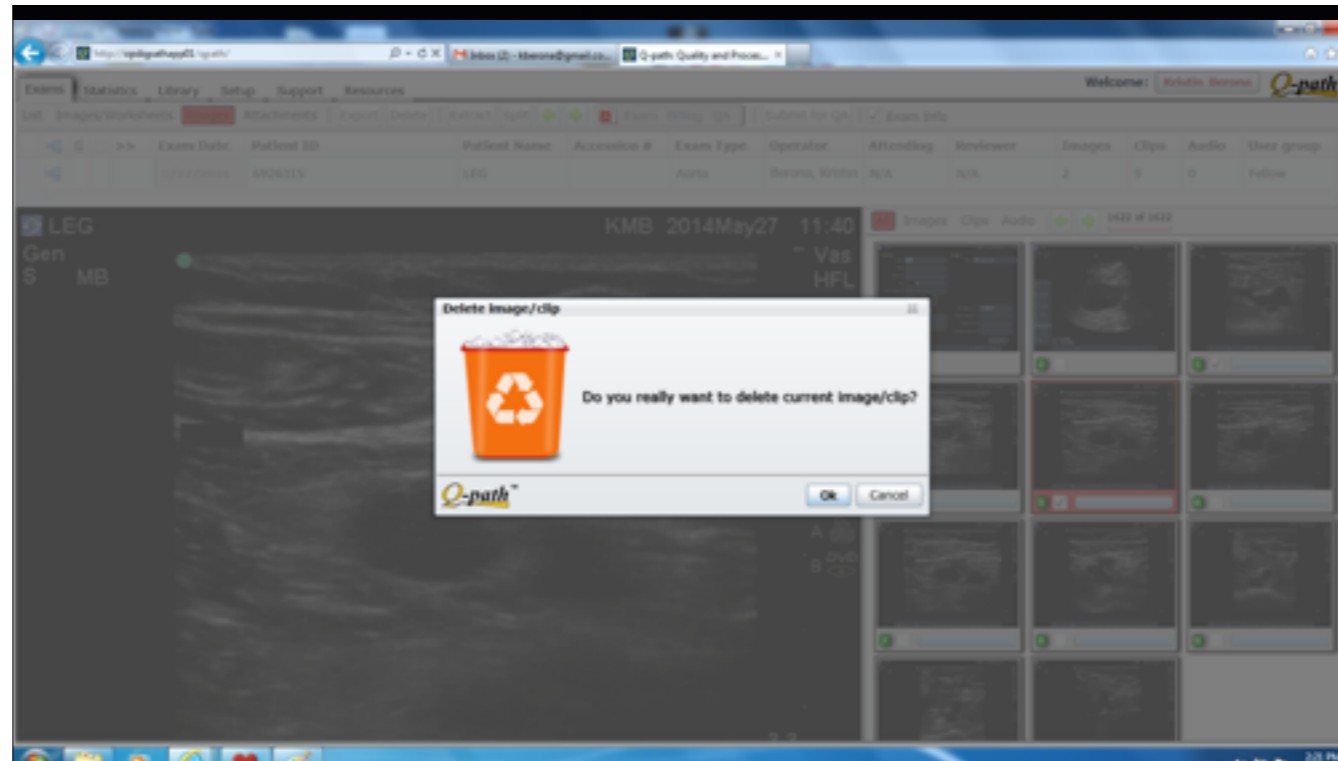


The toolbar will pop up in the bottom of the screen and allow you to change contrast and brightness while viewing. If you decide the image is bad and you don't need it, you can select DELETE at the top menu bar.

Deleting exams/images

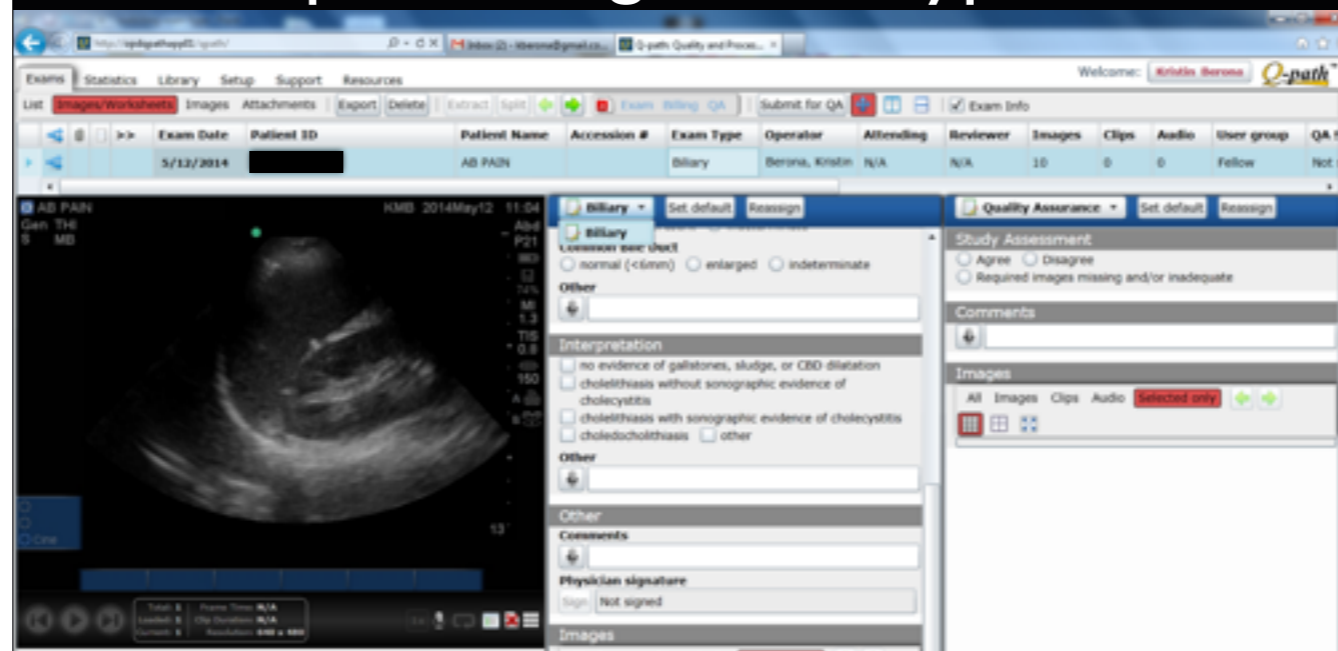


For the one image you wish to delete, select delete button on toolbar.

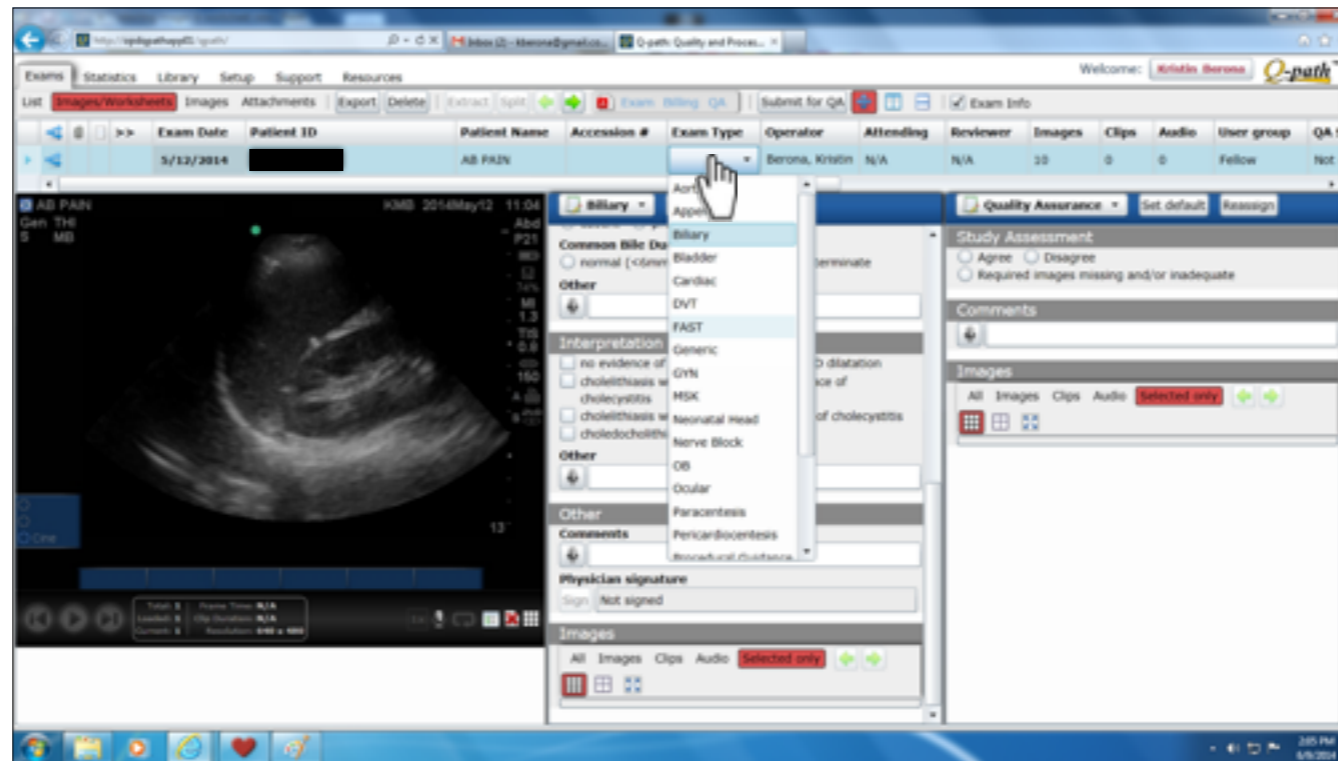


Then this screen will pop up, and ask you if you really want to delete the current image.

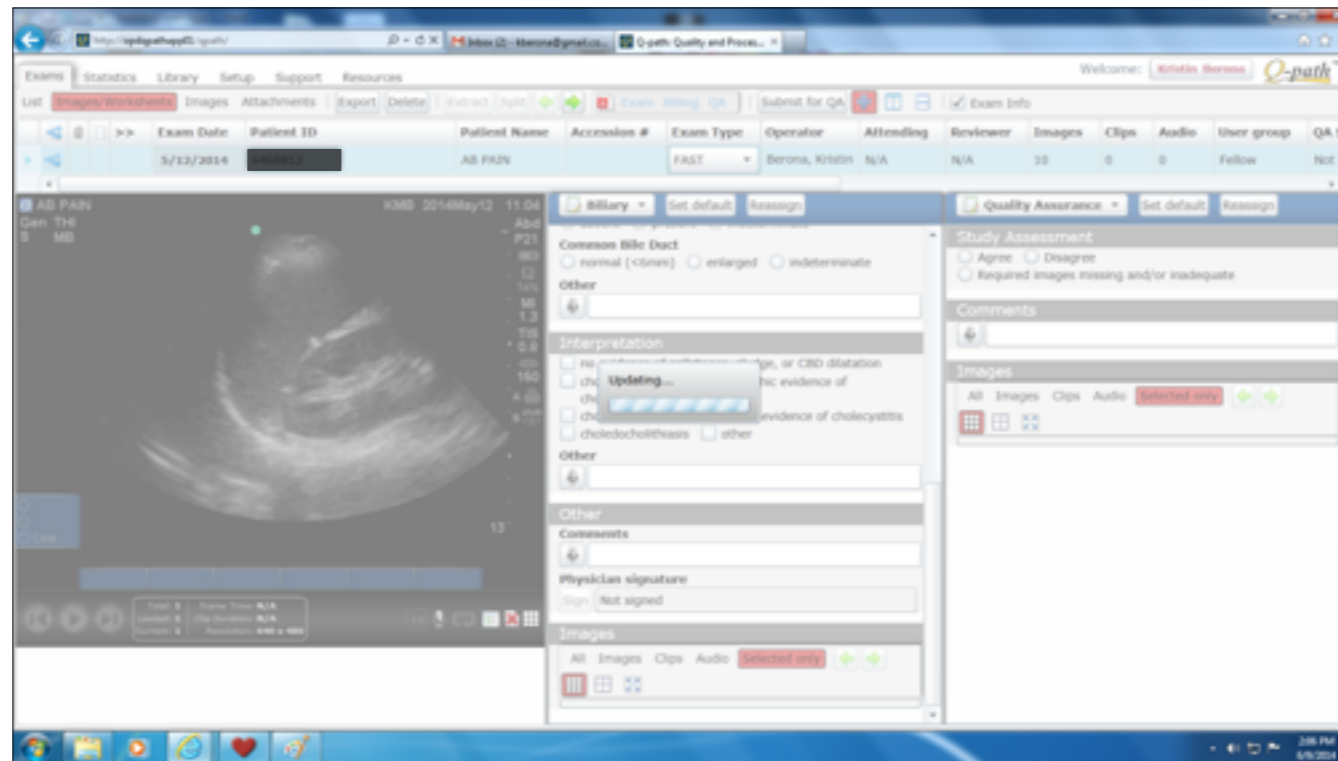
Step 5: Change exam type



So you've figured out you actually want to put in a worksheet for FAST exam but the drop down worksheet only shows you Biliary. This is because you have to change exam type.



Clicking in the box under exam type shows a dropdown menu, and you can select your exam of interest. This will autopopulate the correct worksheet.

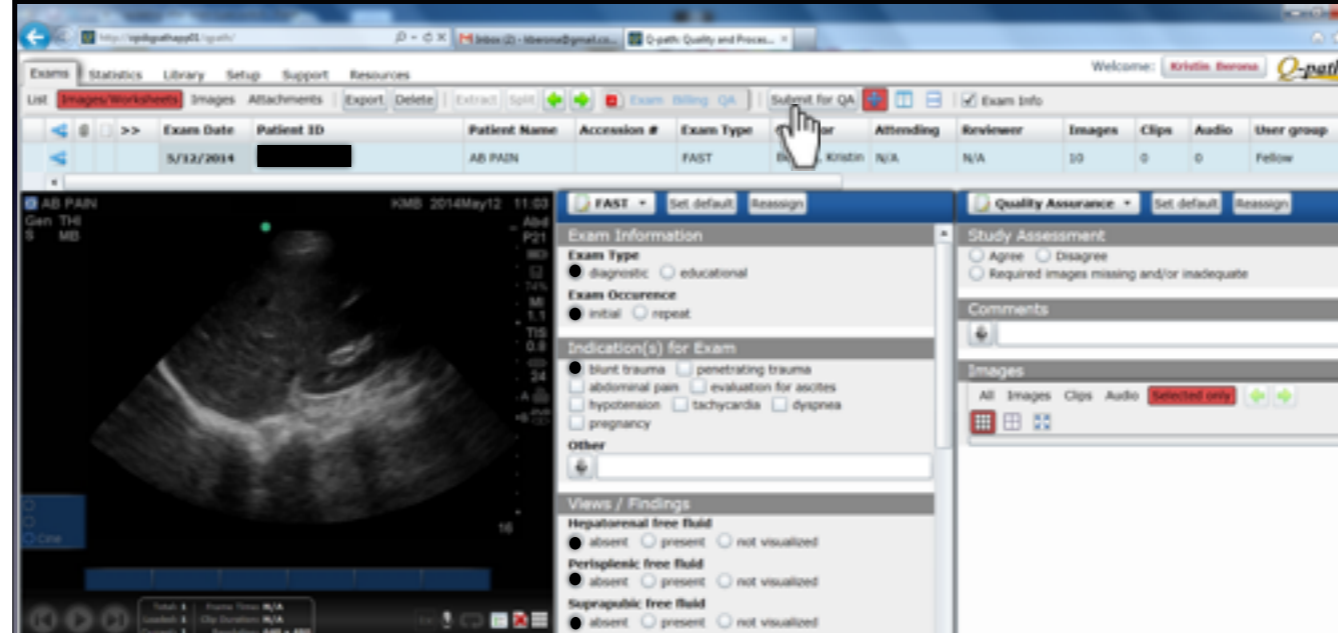


Then it updates....

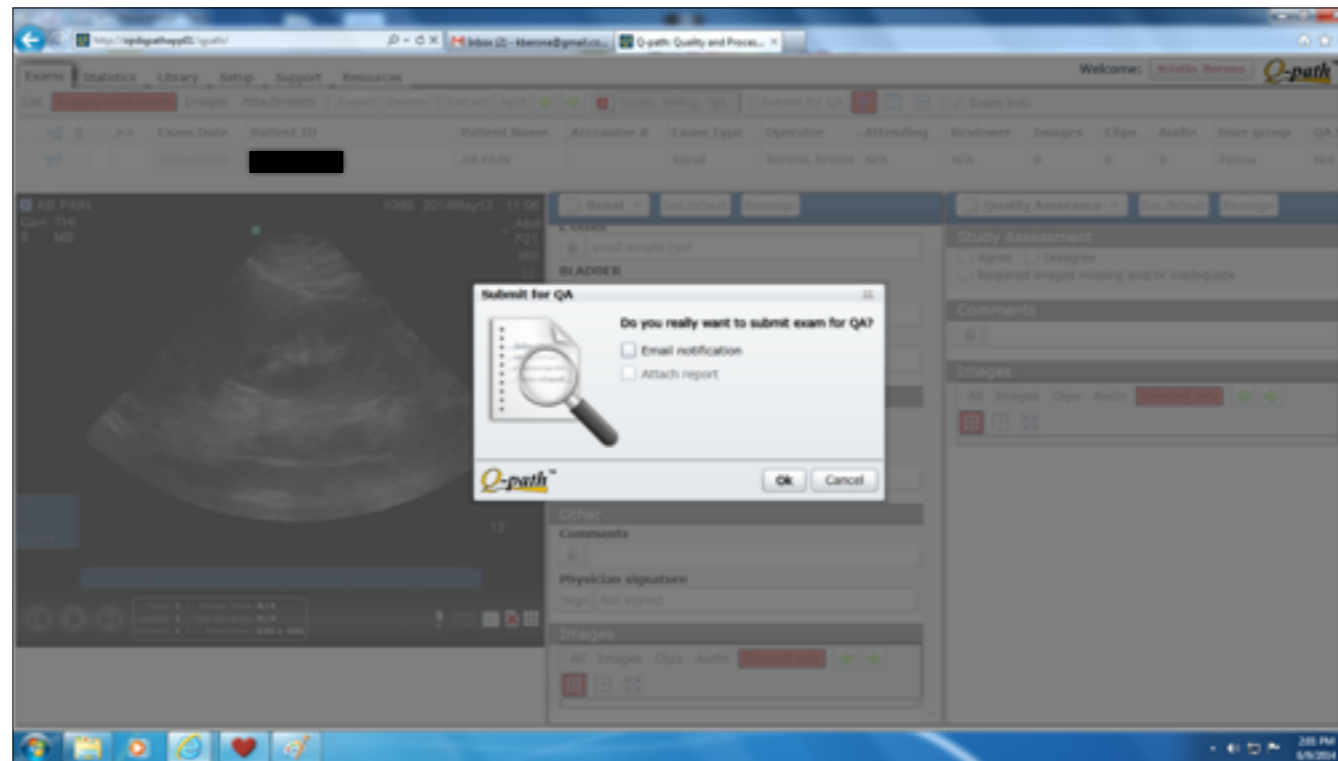


And now you have the correct worksheet, so you can fill in your interpretation.

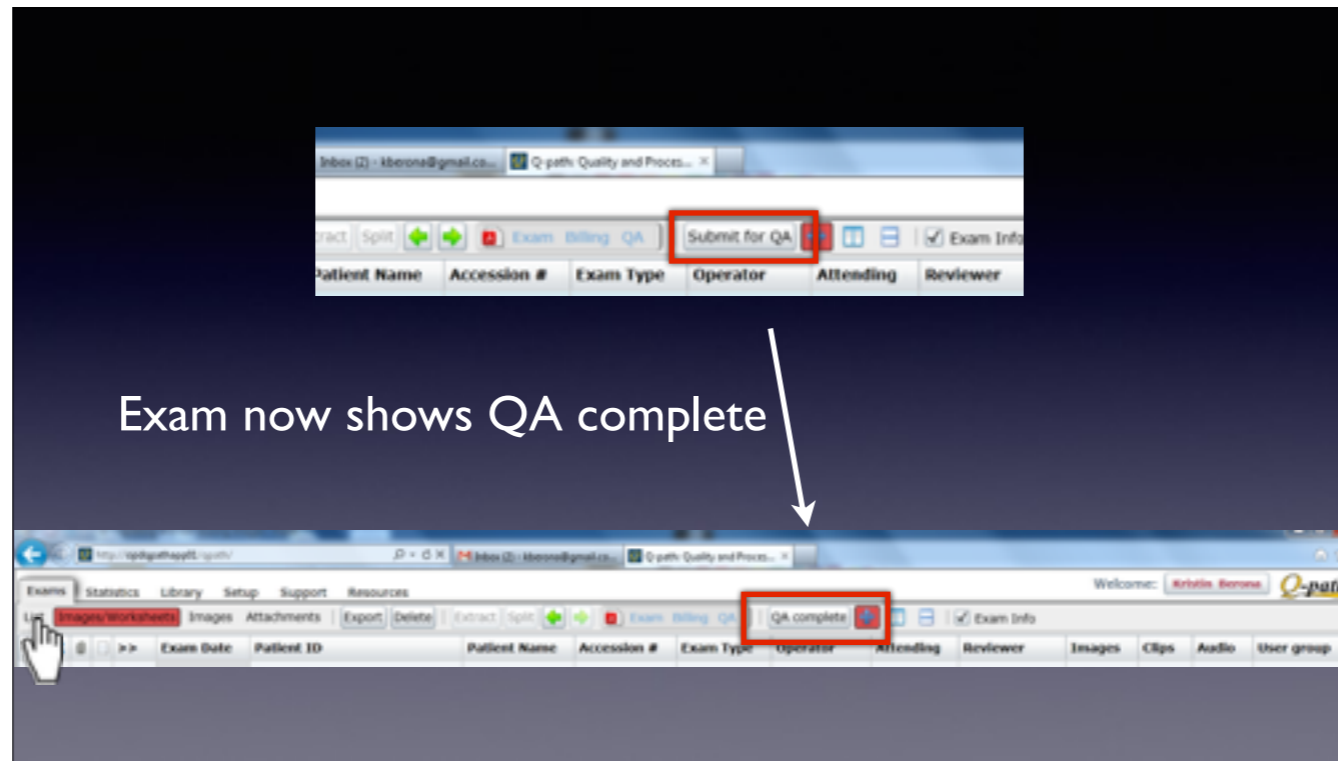
Step 6: Submit worksheet



Now just check the radiobuttons, type in other interpretations, and press “ Submit worksheet”



This screen will pop up....you say OK



Now it will say QA complete, and you can go back to the list screen by pressing List



Once you submit the exam for QA, all images will be associated with that one worksheet

The exam you just submitted may have had 5 individual exams, but you can only submit one worksheet per exam, so you need to split it to have multiple exams. ALWAYS SPLIT FIRST.

Moral of the story?

If multiple scans



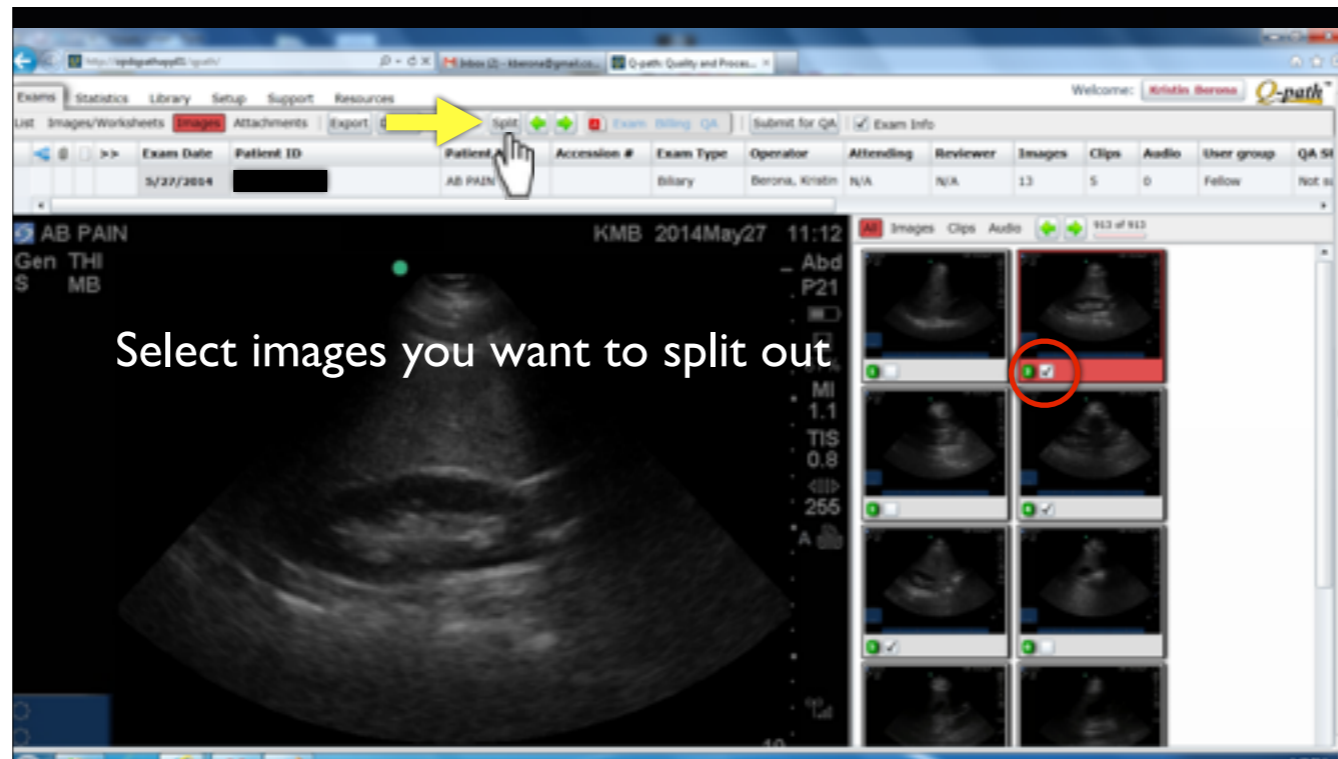
SPLIT FIRST



Step 7: Splitting exams

Exam Date	Patient ID	Patient Name	Accession #	Exam Type	Operator	Attending	Reviewer	Images	Clips	Audio	User group	QA Status	Case
5/22/2014				LEG	Nerve Block	Berona, Kristin	N/A	N/A	5	10	0	Fellow	Not submitted
5/22/2014				AB PND	Biliary	Berona, Kristin	N/A	N/A	13	5	0	Fellow	Not submitted
5/22/2014				AB PND	Biliary	Berona, Kristin	N/A	N/A	12	5	0	Fellow	Not submitted
5/22/2014				VP SHUNT	FAST	Berona, Kristin	N/A	Chitts, Jeannine	15	8	0	Fellow	Complete
5/22/2014				VP SHUNT	Renal	Berona, Kristin	N/A	Chitts, Jeannine	5	1	0	Fellow	Complete
5/22/2014				KNEE	HSA	Berona, Kristin	N/A	Chitts, Jeannine	3	1	0	Fellow	Complete
5/22/2014				SOB	Cardiac	Berona, Kristin	N/A	N/A	6	24	0	Fellow	Not submitted
5/22/2014				PERFD VISCUS	Biliary	Berona, Kristin	N/A	N/A	8	23	0	Fellow	Not submitted
5/22/2014				PERFD VISCUS	Cardiac	Berona, Kristin	N/A	Mulhot, Thomas	1	3	0	Fellow	Complete
5/22/2014				THROAT PAIN	Generic	Berona, Kristin	N/A	Chitts, Jeannine	6	3	0	Fellow	Complete
5/22/2014				AB PND	Biliary	Berona, Kristin	N/A	N/A	13	0	0	Fellow	Not submitted
5/22/2014				AB PND	FAST	Berona, Kristin	N/A	Chitts, Jeannine	7	0	0	Fellow	Complete
5/22/2014				AB PND	Renal	Berona, Kristin	N/A	Chitts, Jeannine	8	0	0	Fellow	Complete
5/22/2014				AB PND	Aorta	Berona, Kristin	N/A	Chitts, Jeannine	6	2	0	Fellow	Complete
5/22/2014				AB PND	Biliary	Berona, Kristin	N/A	Chitts, Jeannine	1	3	0	Fellow	Complete
5/22/2014				HERNSA	Biliary	Berona, Kristin	N/A	N/A	12	10	0	Fellow	Not submitted
5/22/2014				HERNSA	FAST	Berona, Kristin	N/A	Chitts, Jeannine	7	0	0	Fellow	Complete
5/22/2014				HERNSA	Biliary	Berona, Kristin	N/A	Chitts, Jeannine	3	1	0	Fellow	Complete

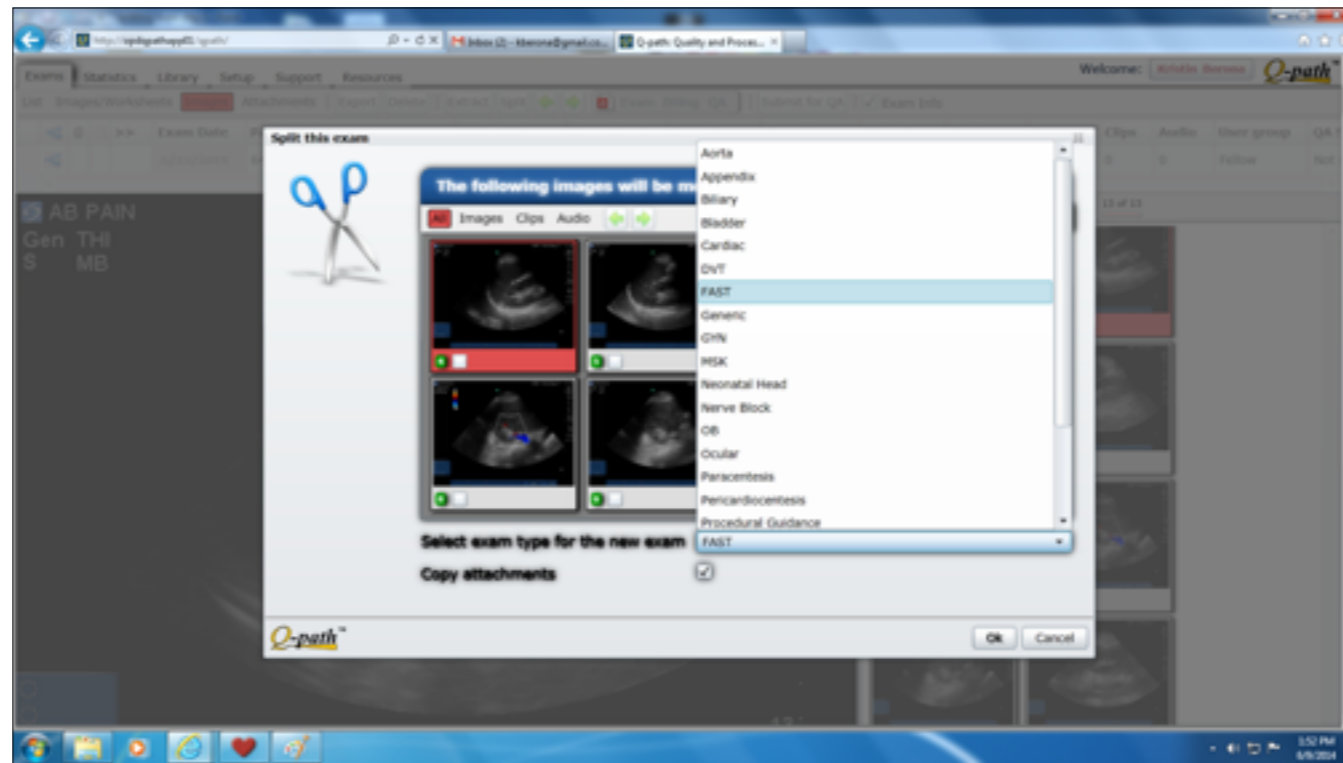
Back to the list view, select the exam you want to split.



On the images screen, select the images that you want to make a new exam by checking the box, clicking on it will place it in the main frame so you can review the image prior to selecting. For example, select all those that apply for a FAST. After all the images have been selected, click "SPLIT" button on menu bar.



Then it will show you the images you have selected to make a new exam. Now you have to select an exam type for the images. Choose FAST.



WAIT!!!

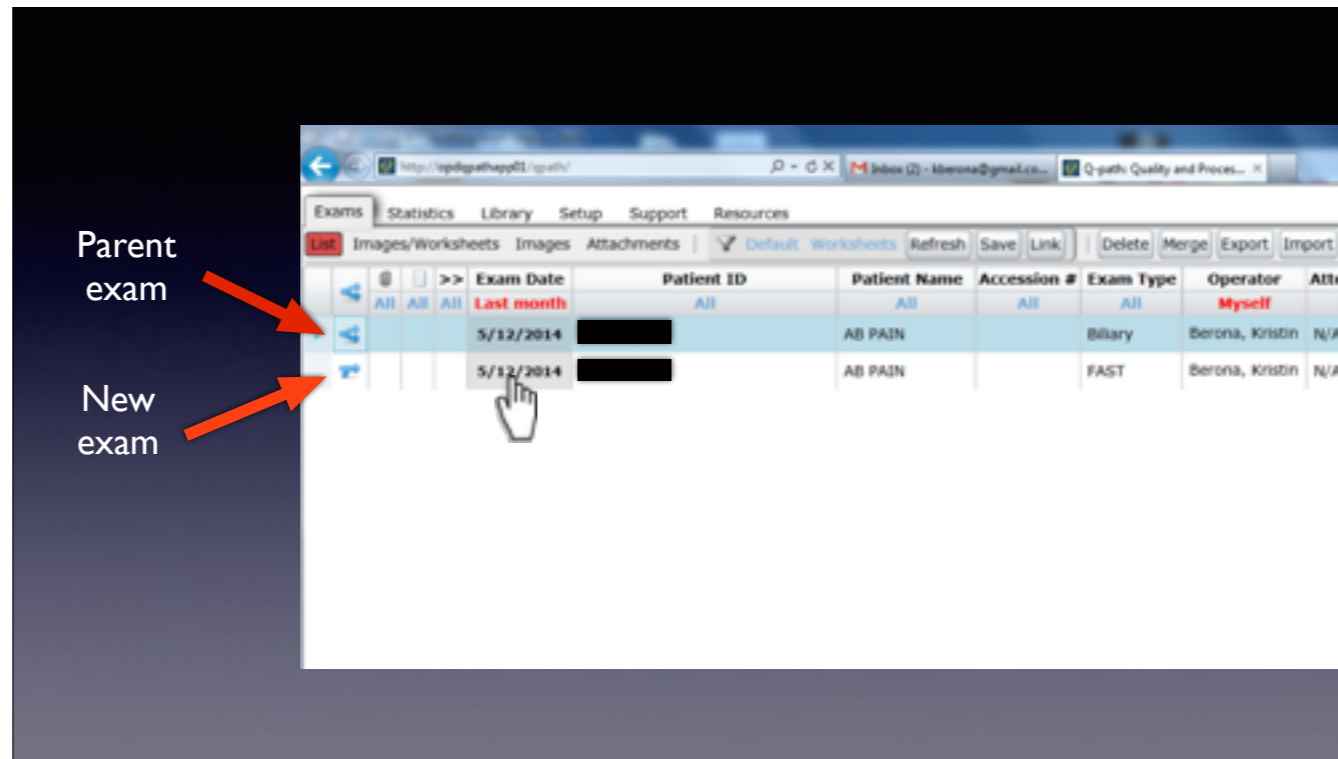
Select images you want to keep copied in parent exam
(ex. FAST images can be used as Renal too)



Before you hit "ok" make sure that you select all images that you will want to use in a different exam, and make sure to copy attachments, such as the kidneys and bladder for "RENAL" If you do not do this you will not have the images accessible for another exam to put in a renal worksheet.



Then select OK, will see this screen



Then you see this screen. The TOP exam is the “parent” exam, and the bottom one is the one you just created...
Select the new one to put the worksheet in.

Fill out worksheet and Submit for QA

Exam Date	Patient ID	Patient Name	Accession #	Exam Type	Operator	Attending	Reviewer	Images	Clips	Audio	User group	QA
5/12/2014	[REDACTED]	AB PAIN		FAST	Ber...	ntin	N/A	N/A	9	0	Fellow	Not

FAST - Set default Reassign

Quality Assurance - Set default Reassign

Exam Information

Exam Type
 diagnostic educational

Exam Occurrence
 initial repeat

Indication(s) for Exam

blunt trauma penetrating trauma
 abdominal pain evaluation for ascites
 hypotension tachycardia dyspnea

Views / Findings

Hepatorenal free fluid
 absent present not visualized

Perisplenic free fluid
 absent present not visualized

Suprapubic free fluid
 absent present not visualized

Right thoracic fluid
 absent present not visualized

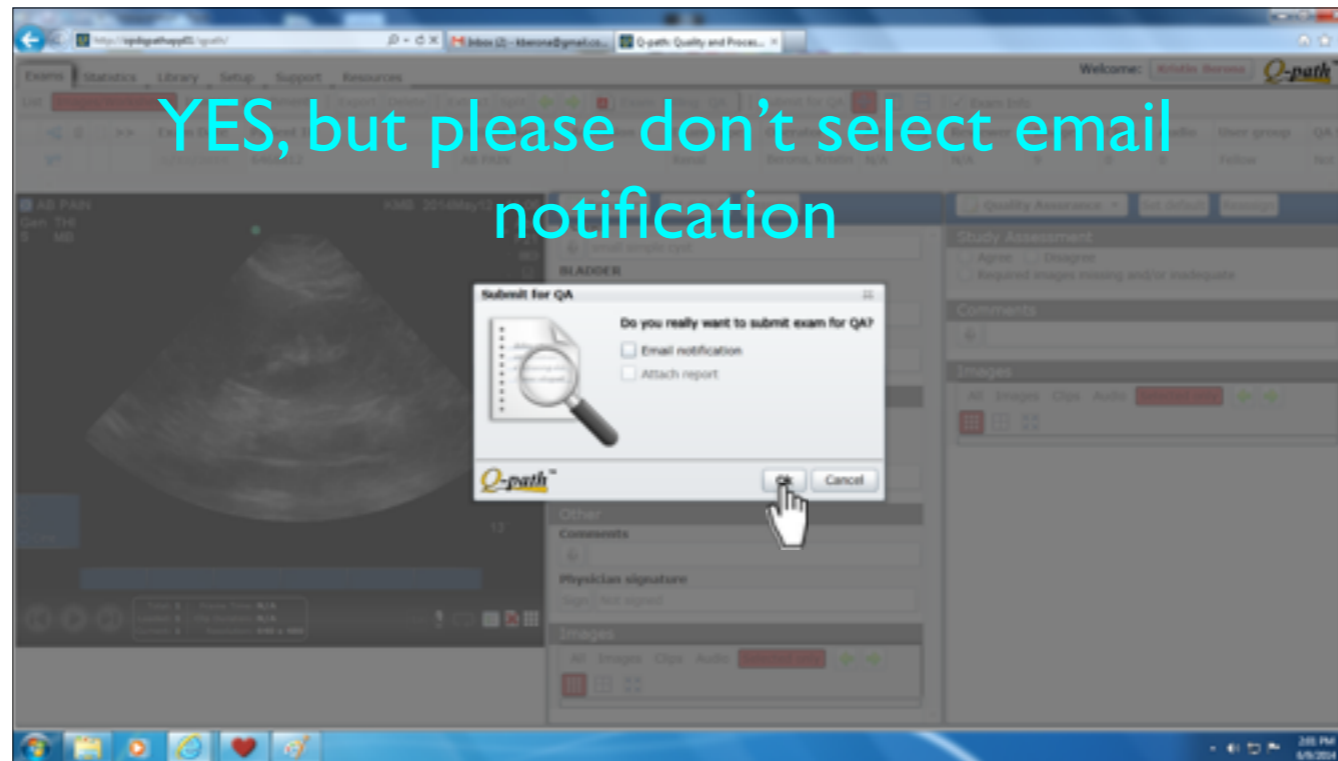
Left thoracic fluid
 absent present not visualized

Study Assessment
 Agree Disagree
 Required images missing and/or inadequate

Comments

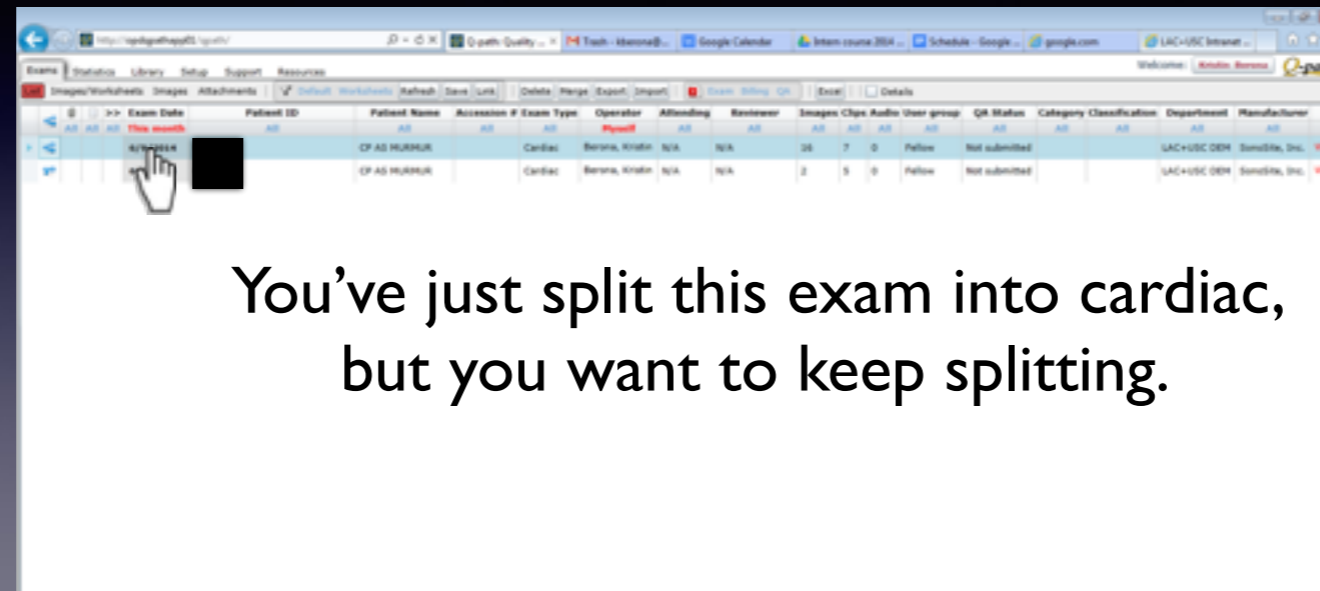
Images
All Images Clips Audio **Submitted only**

Now you see the images transferred over, and automatically in a FAST worksheet. You can enter your interpretation and hit “submit for QA”



YES, but please don't select email notification

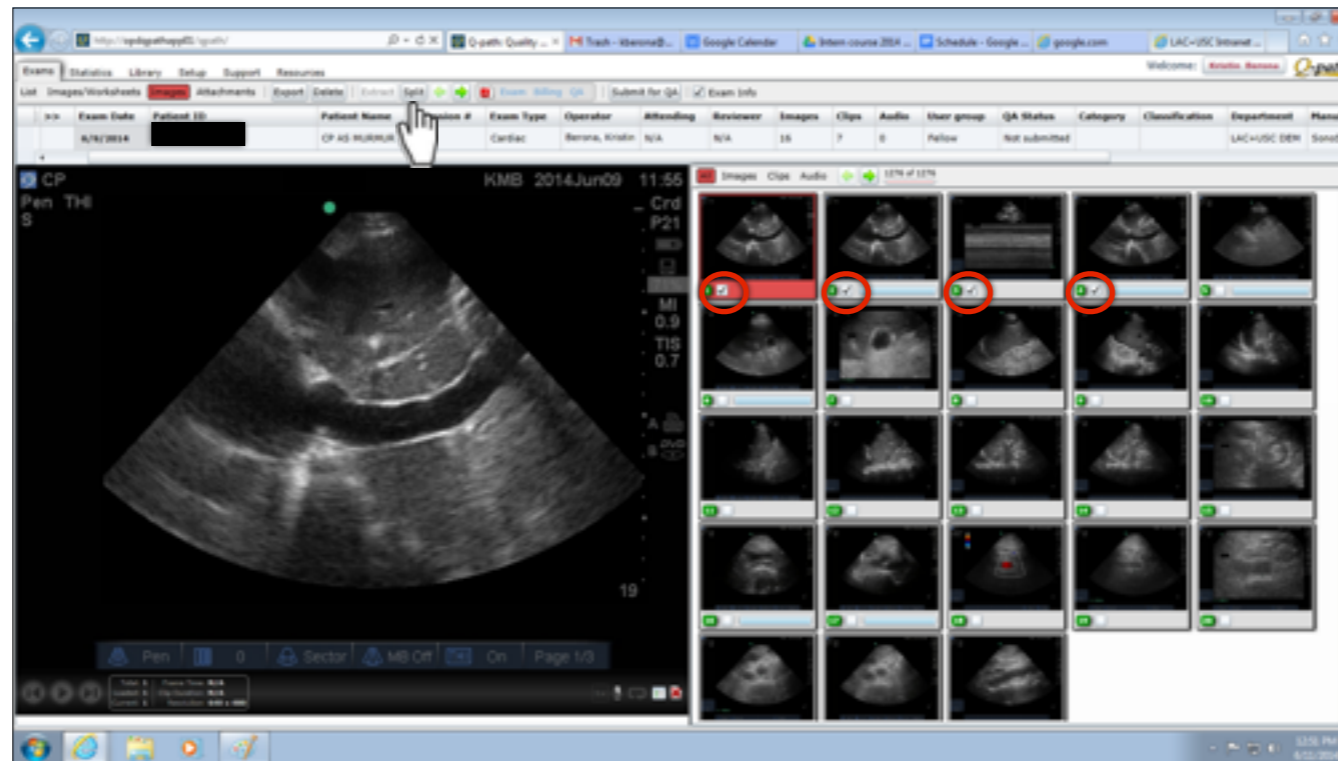
Recap



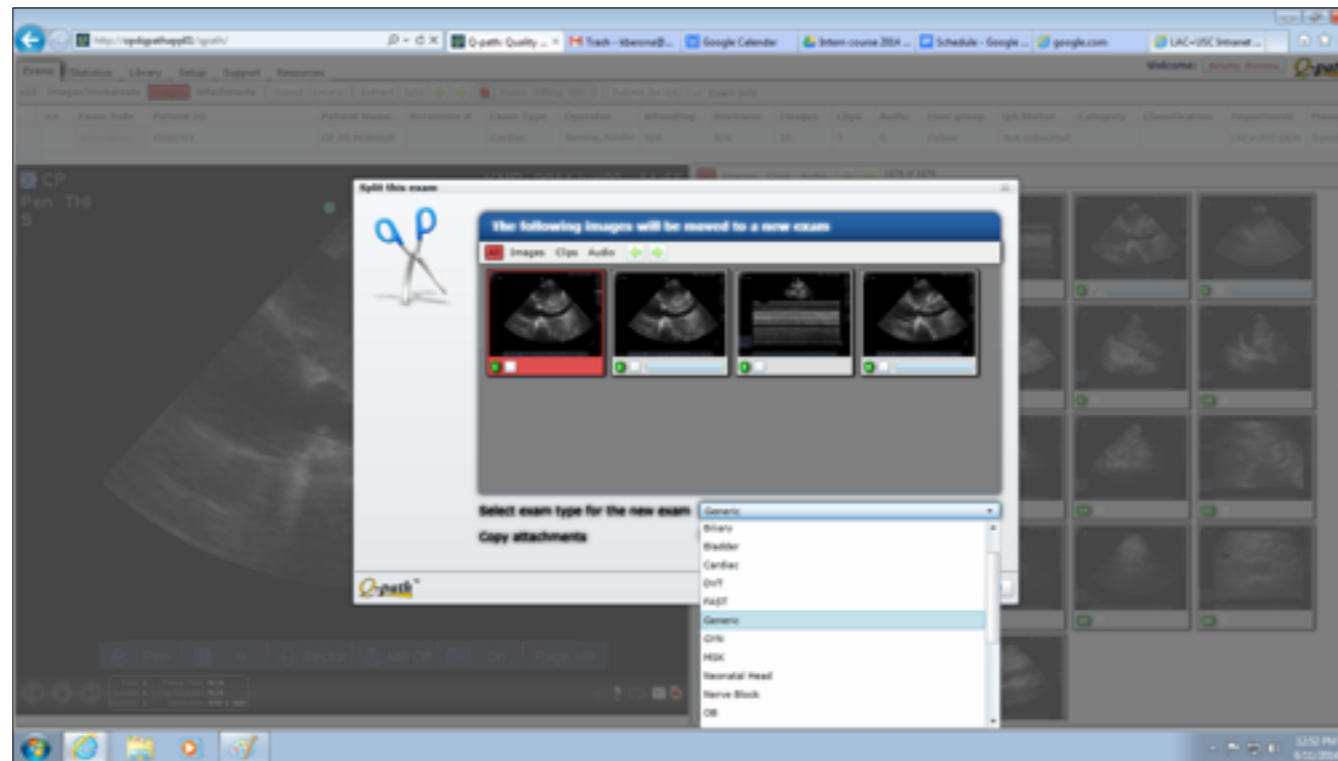
The screenshot shows a web application interface with a table of exam records. The table has columns for Exam Date, Patient ID, Patient Name, Accession #, Exam Type, Operator, Affiliating, Reviewer, Images, Clips, Audio, User group, Q# Status, Category Classification, Department, and Manufacturer. The first row of the table is highlighted, and a hand cursor is pointing to a 'Split' button in the first column. The text below the screenshot reads: "You've just split this exam into cardiac, but you want to keep splitting."

Exam Date	Patient ID	Patient Name	Accession #	Exam Type	Operator	Affiliating	Reviewer	Images	Clips	Audio	User group	Q# Status	Category Classification	Department	Manufacturer
		CP AS MURKIN		Cardiac	Berona, Kristin	N/A	N/A	26	7	0	Fellow	Not submitted	LAC+USC OBN	SonoSite, Inc.	RED
		CP AS MURKIN		Cardiac	Berona, Kristin	N/A	N/A	2	5	0	Fellow	Not submitted	LAC+USC OBN	SonoSite, Inc.	RED

Say you've just split this initial cardiac exam, but you want to select out the IVC as well. Select the parent exam...

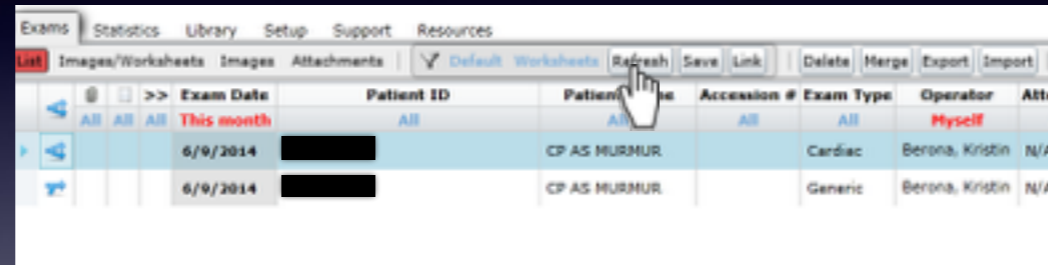


Then select out the IVC images you are interested in, then select SPLIT.



Select the exam type you want to label it. Choose generic for IVC. These images will not be needed in another exam, so we do not have to check all the boxes.

Where did my other split exam go?



Exam Date	Patient ID	Patient Name	Accession #	Exam Type	Operator	Alter
This month	All	All	All	All	Myself	A
6/9/2014	[REDACTED]	CP AS MURMUR		Cardiac	Berona, Kristin	N/A
6/9/2014	[REDACTED]	CP AS MURMUR		Generic	Berona, Kristin	N/A

Now you have the parent exam, and the generic, but where did the other cardiac go? Hit refresh, and that will show you a current list with all splits.

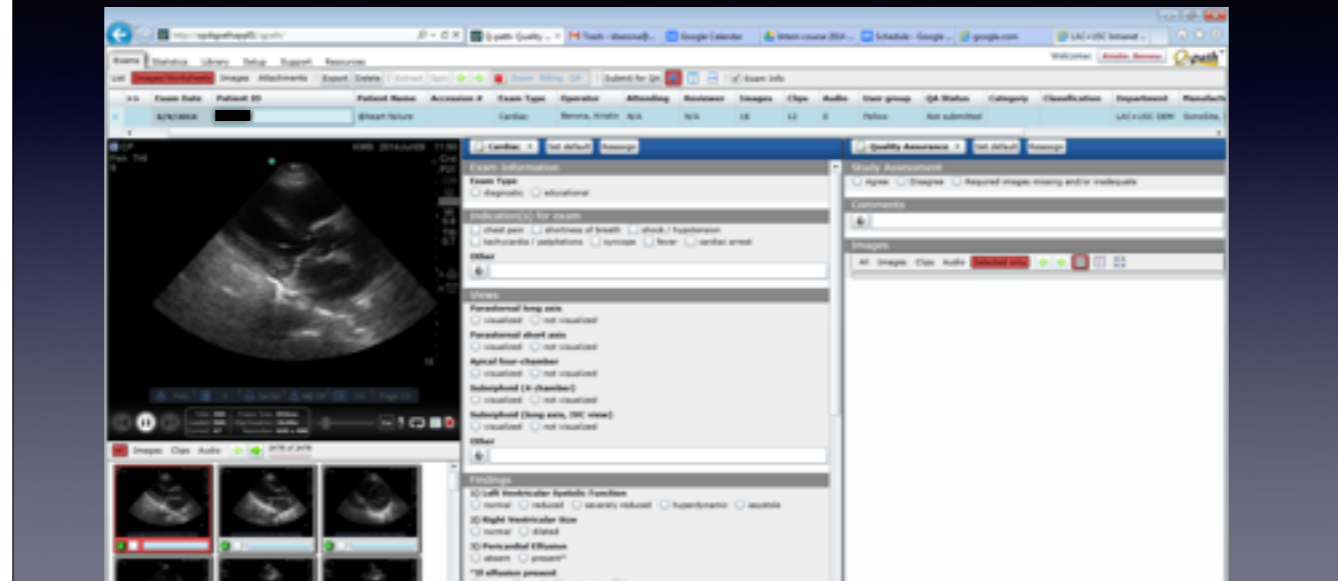
After Refresh

Parent
Split
Split

	Exam Date	Patient ID	Patient Name	Accession #	Exam Type	Operator	Attending
>>>	This month	All	All	All	All	Myself	All
>	6/9/2014		CP AS MURMUR		Cardiac	Berona, Kristin	N/A
>	6/9/2014		CP AS MURMUR		Cardiac	Berona, Kristin	N/A
>	6/9/2014		CP AS MURMUR		Generic	Berona, Kristin	N/A

Now you have all 3!

Step 8: changing info



This is not mandatory, but sometimes you might have something really interesting, or you forgot to enter the patient ID# in when you were doing the exam. This can be done retroactively by clicking in the “patient name” or “patient ID” boxes

The screenshot displays a web-based medical application interface. At the top, there is a browser address bar and several open tabs. Below the browser, a navigation menu includes 'Exams', 'Statistics', 'Library', 'Setup', 'Support', and 'Resources'. A secondary menu contains 'List', 'Images/Worksheets', 'Images', 'Attachments', 'Export', 'Delete', 'Extract', 'Split', 'Exam', 'Billing', 'QA', 'Submit for QA', and 'Exam Info'. A table lists exam details for a patient with heart failure, including the exam date (6/9/2014), patient ID (redacted), patient name (@heart failure), accession number, exam type (Cardiac), operator (Berona, Kristin), attending (N/A), reviewer (N/A), and image counts (18 and 12). The main area is split into two sections: on the left, an echocardiogram image with technical parameters like 'CP', 'Pen TH', 'S', 'MI 0.9', and 'TIS 0.7'; on the right, a 'Cardiac' exam information panel. This panel includes radio buttons for 'diagnostic' or 'educational' exam types, checkboxes for various clinical indications such as chest pain, shortness of breath, shock/hypotension, tachycardia/palpitations, syncope, fever, and cardiac arrest, and a section for 'Views' with options for 'Parasternal long axis', 'Parasternal short axis', 'Apical four-chamber', and 'Subxiphoid (4 chamber)'. Each view option has radio buttons for 'visualized' or 'not visualized'.

You can see the cursor in the “Patient ID field” so you can delete and add the correct MRN. Hit “enter” when finished.

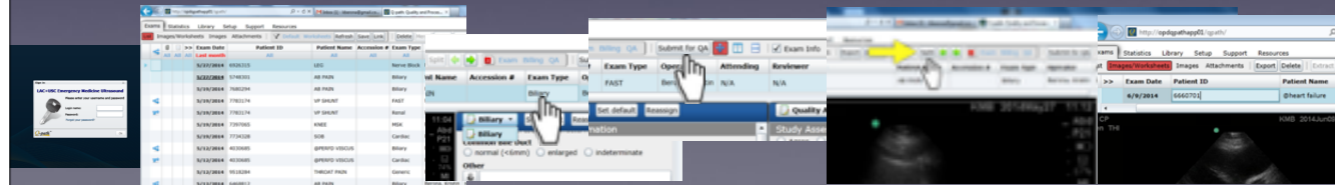
Follow up

- Submitted exams are reviewed by US faculty
- Comments, criticism, accolades, or denied credit scans will trigger an email with ExamReport.pdf



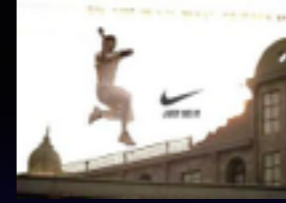
Thats all!

- Step 1: Perform exam
- Step 2: Access QPATH from LAC homepage
- Step 3: Log in
- Step 4: Select exam
- Step 5: Change exam type (if needed)
- Step 6: Split exams
- Step 7: Submit worksheet





Just do it



- Ask any of your friendly US faculty for help

