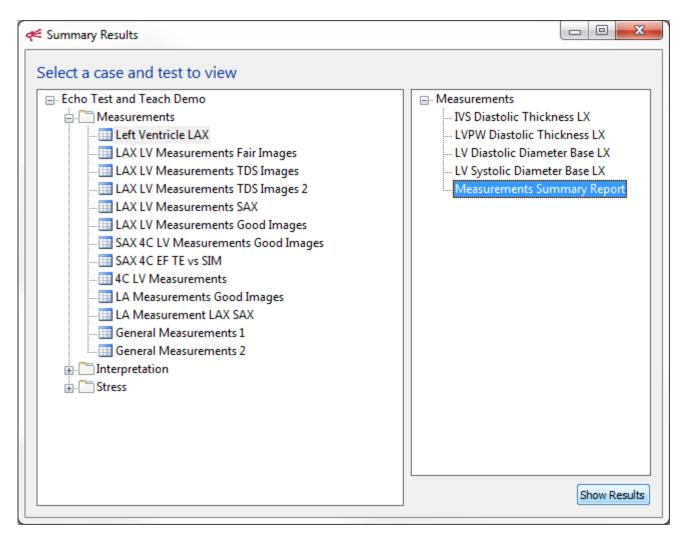
	x
Image: Construction Image: Construct	▼ ces
Cases My Results	
M Individual Results	
In Summary Results	
Run Remove Add Subcategory Add Top-Level Catego	ory

A site administrator can access their result summaries via the **Results** toolbar button by clicking the **Summary Results** menu item.



From here, the result summary for any given case and its tests can be generated by selecting the case and report of interest. Let's start with a full **Measurements Summary Report**.

🗲 Ca	E Case Measurements Report								
orm	ı								
Case Left Ventride LAX							View		
^	Measurement	# Results	Creator Value	User Mean	Creator Classification	# Classifications Disagree	# Accuracy Outliers (RelErr ≥20%)	User Coef of Variation	# Variability Outliers (Dev ≥1 SD)
1	IVS Diastolic Thickness LX	16	1.02	1.02	Normal	5	3	0.153	6
2	LVPW Diastolic Thickness LX	16	1.02	0.953	Normal	0	1	0.101	5
3	LV Diastolic Diameter Base LX	16	4.82	4.93	Unknown	0	0	0.031	4
4	LV Systolic Diameter Base LX	16	3.3	3.67	Unknown	0	2	0.0698	4
View									

The Measurements Summary Report compiles results for all of the measurements in a case in an easy-to-digest format, including an average of the user measurements, classifications, and how many of the measurements deviate significantly from the creator's measurement or the rest of the users.

Highlighting a particular measurement and clicking **View** will open a more detailed summary for just that measurement...

rint	View Results	% Workbe	nch				
Case		Left V	entricle LAX			Vi	ew
Meas	surement	TVS Di	astolic Thicknes	six			
	eator Values	110 04					
	ue (cm)	1.02					
	ssification	Norm	hal ler				
Ima			good normal.mp				
	age Ime Index		good normal.mp	9			
Fra	me tugex	1					
Use	er Values - Basic Sta	tistics					
Mei	an	0.9	41	Mini	mum	0.836	
						1.28	
Sta	indard Deviation	0.1	28	Max	imum	1.28	
	indard Deviation			Мах	ámum		
	indard Deviation efficient of Variation			Max		0.444	
							nary
	efficient of Variation					0.444 Open Data Summ	nary
Coe	efficient of Variation			Ran	ge	0.444 Open Data Summ	nary
Coe	efficient of Variation	0.1	36	Ran	ge Filter	0.444 <u>Open Data Summ</u> All All Different Classifications Accuracy Outliers	nary
Coe	efficient of Variation ilts User	0.1 Value 0.859	36 Classification	Value Difference	ge Filter Value % Difference	0.444 Open Data Sumn All Different Classifications	
Coe Resu	efficient of Variation JIts User Adela Arthur	0.1 Value 0.859	Classification Normal	Value Difference	ge Filter • Value % Difference -15.91	0.444 <u>Open Data Summ</u> All Different Classifications Accuracy Outlers Variability Outlers	
Coe Resu	efficient of Variation Its User Adela Arthur Betty Boone	0.1 Value 0.859 0.922	Classification Normal Normal	Value Difference	ge Filter Value % Difference -15.91 -9.77	0.444 Open Data Summ All All Different Classifications Accuracy Outliers Variability Outliers	, 1 1
Coe Resu	efficient of Variation Its User Adela Arthur Betty Boone Carlton Clapp	0.1 0.1 0.859 0.922 0.925 0.906	Classification Normal Normal Normal	Value Difference -0.16 -0.1 -0.1	ge Filter • Value % Difference •15.91 -9.77 -9.42	0.444 Open Data Summ All Different Classifications Accuracy Outliers Uxrapidly Outliers LXX good normal.mpg LXX good normal.mpg	1 1 2
Coe Resu 1 2 3 4	efficient of Variation ilts User Adela Arthur Betty Boone Carlton Clapp Elzie Eason	0.1 0.1 0.859 0.922 0.925 0.906	Classification Normal Normal Normal Normal	Value Difference -0.16 -0.1 -0.1 -0.1 -0.1	ge Filter • Value % Difference • 15.91 • 9.77 • 9.42 • -11.29	0.444 Open Data Sumn Al Al Different Classifications Accuracy Outlers UXriability Outlers LXX good normal.mpg LAX good normal.mpg	nary , 1 1 2 2 1
Coe Resu 1 2 3 4 5	efficient of Variation Ilts User Adela Arthur Betty Boone Carlton Clapp Elzie Eason Elie Eaton	0.1 Value 0.859 0.922 0.925 0.906 0.881 1.28	Classification Normal Normal Normal Normal Normal	Value Difference -0.16 -0.1 -0.1 -0.12 -0.12 -0.14	ge Filter Value % Difference -15.91 -9.77 -9.42 -11.29 -13.73	0.444 Qpen Data Sumn All Different Classifications Accuracy Outlers LAX good normal.mpg LAX good n	1 1 2 2 1
Coe Resu 1 2 3 4 5 6	efficient of Variation Ats User Adela Arthur Betty Boone Carlton Clapp Elzie Eason Ellie Eaton Lieorie Lynn	0.1 Value 0.859 0.922 0.925 0.906 0.881 1.28	Classification Normal Normal Normal Normal Abnormal	Value Difference -0.16 -0.1 -0.12 -0.12 -0.14 -0.14 -0.26	ge Filter • Value % Difference •15.91 •9.77 •9.42 •11.29 •13.73 25.42	0.444 Open Data Summ All All All All All All All All Addition All Addition Addit Addition Addition Addition Add	1 1 2 2 1 2
Coe Resu 1 2 3 4 5 6 7	efficient of Variation its User Adela Arthur Betty Boone Carlton Clapp Elzie Eason Ellie Eaton Leonie Lynn Maybelle Meyers	0.1 Value 0.859 0.922 0.925 0.906 0.881 1.28 0.925	Classification Normal Normal Normal Normal Abnormal Normal	Value Difference -0.16 -0.1 -0.1 -0.12 -0.12 -0.14 -0.26 -0.1	ge Filter Value % Difference -15.91 -9.77 -9.42 -11.29 -13.73 25.42 -9.42	0.444 Qpen Data Sumn All Different Classifications Accuracy Outlers LAX good normal.mpg LAX good n	1 1 2 2
Coe Resu 1 2 3 4 5 6 7 8	efficient of Variation Its User Adela Arthur Betty Boone Carlton Clapp Elize Eason Elize Eason Elize Eason Elize Lynn Maybelle Meyers Meyer Morton	0.1 0.1 0.859 0.922 0.925 0.906 0.881 1.28 0.925 1.01	Classification Normal Normal Normal Normal Normal Normal Normal Normal	Value Difference -0.16 -0.1 -0.1 -0.12 -0.14 0.26 -0.1 -0.02	ge Filter 2 Value % Difference -15.91 -9.77 -9.42 -11.29 -13.73 25.42 -9.42 -1.51	0.444 Open Data Sumn Al Al Al Al Control Classifications Accuracy Outlers UXY good normal.mpg LAX good nor	1 1 2 1 2 1

Case A1: LAX LV Mea									
int View Results V	¶ Vorkber	nch							
Case	Left Ve	entricle LAX							View
leasurement	IVS Dia	astolic Thickness	s LX						
Creator Values									
Value (cm)	1.02								
Classification	Norm	al							
Image	LAX g	good normal.mp	g						
Frame Index	1								
User Values - Basic Stat	tistics								
Mean	0.94	41		Minimu	um	[0.836		
]		ſ	1.28		
		0.128			Maximum		1.28		
Standard Deviation	0.12	20			um	L			
Standard Deviation Coefficient of Variation	0.12			Maxim		[0.444		
]		[Open Data Sun	nmary
Coefficient of Variation]		L	0.444	Open Data Sun	nmary
]		[Filter	0.444	<u>Open Data Sun</u>	ımarı
Coefficient of Variation			Value Dif] Range		Filter	0.444 All All Differ	ent Classification:	
Coefficient of Variation	0.13	36	Value Dit -0.16] Range	2	Filter	0.444 All Differ Accur	rent Classifications	
Coefficient of Variation Results	0.13 Value	36 Classification] Range	e Value % Diff	Filter	0.444 All Differ Accur Varial	ent Classification:	5
Coefficient of Variation Results User 1 Adela Arthur	0.13 Value 0.859	36 Classification Normal	-0.16] Range	Value % Diff -15.9	Filter	0.444 All Differ Varial LAX G	ent Classifications acy Outliers bility Outliers	
Coefficient of Variation Results User Adela Arthur Betty Boone	0.13 Value 0.859 0.922	Classification Normal Normal	-0.16 -0.1] Range	Value % Diff -15.9 -9.73	Filter	All All Differ Accur Varial LAX Q LAX Q	rent Classification: racy Outliers bility Outliers good normal.mpg	5
Coefficient of Variation Results User 1 Adela Arthur 2 Betty Boone 3 Carlton Clapp 4 Elzie Eason 5 Ellie Eaton	0.13 Value 0.859 0.922 0.925 0.906 0.881	36 Classification Normal Normal Normal Normal Normal Normal Normal	-0.16 -0.1 -0.1 -0.12 -0.14] Range	Value % Diff -15.9 -9.73 -9.43 -11.29 -13.74	Filter	0.444 All Differ Variat LAX Q LAX Q LAX Q	rent Classifications racy Outliers bility Outliers good normal.mpg good normal.mpg good normal.mpg good normal.mpg	s 1 2 2
Coefficient of Variation Results User 1 Adela Arthur 2 Betty Boone 3 Carlton Clapp 4 Elzie Eason 5 Ellie Eaton 6 Leonie Lynn	0.13 Value 0.859 0.922 0.925 0.906 0.881 1.28	36 Classification Normal Normal Normal Normal Normal Abrormal	-0.16 -0.1 -0.12 -0.12 -0.14 0.26] Range	Value % Diff -15.9 -9.73 -9.43 -11.29 -13.74 25.32	Filter	All All Differ Varial LAX Q LAX Q LAX Q	rent Classifications acy Outliers bility Outliers good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg	5
Coefficient of Variation Results User 1 Adela Arthur 2 Betty Boone 3 Carlton Clapp 4 Elzie Eason 5 Ellie Eaton 6 Leonie Lynn 7 Maybelle Meyers	0.13 Value 0.859 0.922 0.925 0.906 0.881 1.28 0.925	36 Classification Normal Normal Normal Normal Normal Abnormal Normal	-0.16 -0.1 -0.1 -0.12 -0.14 0.26 -0.1] Range	Value % Diff -15.9 -9.73 -9.43 -11.29 -13.74 25.32 -9.43	Filter	All All Differ Variat LAX Q LAX Q LAX Q LAX Q	rent Classifications racy Outliers bility Outliers good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg	5
Coefficient of Variation Results User 1 Adela Arthur 2 Betty Boone 3 Carlton Clapp 4 Elzie Eason 5 Ellie Eaton 6 Leonie Lynn 7 Maybelle Meyers 8 Meyer Morton	Value 0.859 0.922 0.925 0.906 0.881 1.28 0.925 1.01	Classification Normal Normal Normal Normal Normal Abnormal Normal Normal Normal	-0.16 -0.1 -0.12 -0.12 -0.14 0.26 -0.1 -0.1] Range	Value % Diff -15.9 -9.73 -9.43 -11.29 -13.74 25.32 -9.43 -1.11	Filter	All All Differ LAX Q LAX Q LAX Q LAX Q LAX Q	rent Classifications acy Outliers bility Outliers good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg	5
Coefficient of Variation Results User I Adela Arthur Betty Boone Carlton Clapp Elzie Eason Carlton Clapp Elzie Eaton Ellie Eaton Ellie Eaton Ellie Eaton Maybelle Meyers Meyer Morton Result Re	0.13 Value 0.859 0.922 0.925 0.906 0.881 1.28 0.925 1.01 0.836	Classification Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal	-0.16 -0.1 -0.12 -0.12 -0.14 0.26 -0.1 -0.01 -0.01] Range	Value % Diff -15.9 -9.73 -9.43 -11.29 -13.74 25.32 -9.43 -1.11 -18.15	Filter	All All Differ Varial LAX Q LAX Q LAX Q LAX Q LAX Q LAX Q	rent Classifications acy Outliers bility Outliers good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg	5
Coefficient of Variation Results User Adela Arthur Betty Boone Carlton Clapp Elzie Eason Ellie Eaton Ellie Eaton Ellie Eaton Ellie Eaton Maybelle Meyers Meyer Morton Rowland Randall Sena Stone	Value 0.859 0.922 0.925 0.906 0.881 1.28 0.925 1.01	Classification Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal	-0.16 -0.1 -0.12 -0.14 0.26 -0.1 -0.01 -0.01 -0.19 -0.15] Range	Value % Diff -15.9 -9.73 -9.43 -11.29 -13.74 25.32 -9.43 -1.11	Filter	All All Differ Varial LAX Q LAX Q LAX Q LAX Q LAX Q LAX Q	rent Classifications acy Outliers bility Outliers good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg	5
Coefficient of Variation Results User I Adela Arthur Betty Boone Carlton Clapp Elzie Eason Carlton Clapp Elzie Eaton Ellie Eaton Ellie Eaton Ellie Eaton Maybelle Meyers Meyer Morton Result Re	0.13 Value 0.859 0.922 0.925 0.906 0.881 1.28 0.925 1.01 0.836	Classification Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal	-0.16 -0.1 -0.12 -0.12 -0.14 0.26 -0.1 -0.01 -0.01] Range	Value % Diff -15.9 -9.73 -9.43 -11.29 -13.74 25.32 -9.43 -1.11 -18.15	Filter	All All Differ Varial LAX Q LAX Q LAX Q LAX Q LAX Q LAX Q	rent Classifications acy Outliers bility Outliers good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg	5 1 2 2 1 1 2 1 1 1 1
Coefficient of Variation Results User Adela Arthur Betty Boone Carlton Clapp Elzie Eason Ellie Eaton Ellie Eaton Ellie Eaton Ellie Eaton Keyer Morton Reyer Morton Rowland Randall Sena Stone	0.13 Value 0.859 0.922 0.925 0.906 0.881 1.28 0.925 1.01 0.836 0.87	Classification Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal	-0.16 -0.1 -0.12 -0.14 0.26 -0.1 -0.01 -0.01 -0.19 -0.15] Range	Value % Diff -15.9 -9.73 -9.43 -11.29 -13.74 25.32 -9.43 -1.11 -18.15	Filter	All All Differ Varial LAX Q LAX Q LAX Q LAX Q LAX Q LAX Q	rent Classifications acy Outliers bility Outliers good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg good normal.mpg	5

A full report can be generated for each measurement in a case. From here, you can see basic statistics about the users as a group as well as how each user did individually.

The user results can be filtered down to interesting subsets of data:

Different Classifications

Includes any users whose measurement classifies differently than the creator's measurement (normal vs. abnormal)

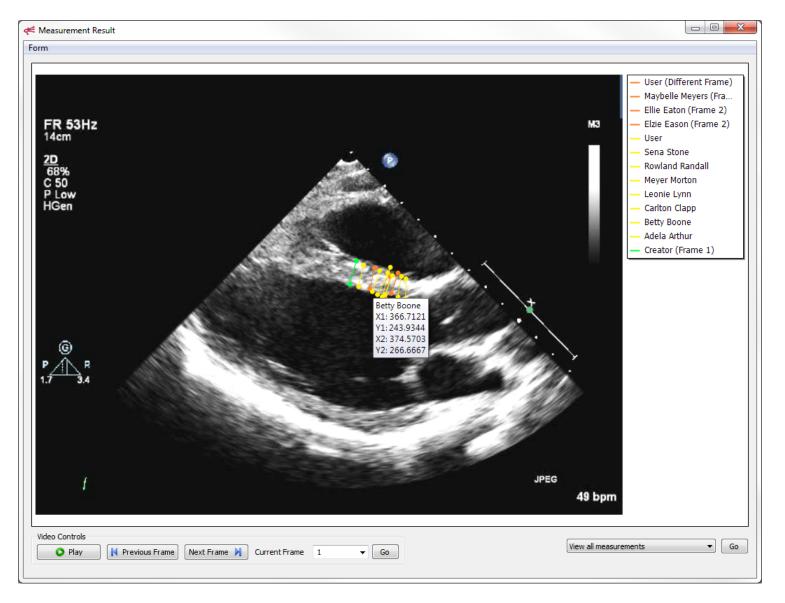
Accuracy Outliers

Includes any users whose measurement is at least 20% away from the creator's measurement

Variability Outliers

Includes any users whose measurement is at least one standard deviation from the user average

The toolbar buttons at the top of the window also provide some very useful functionality.





Clicking **View Results** brings up a composite view of all user-submitted measurements alongside the creator's measurement on the appropriate images. You can find individual measurements by hovering over the line corresponding to the measurement of interest.

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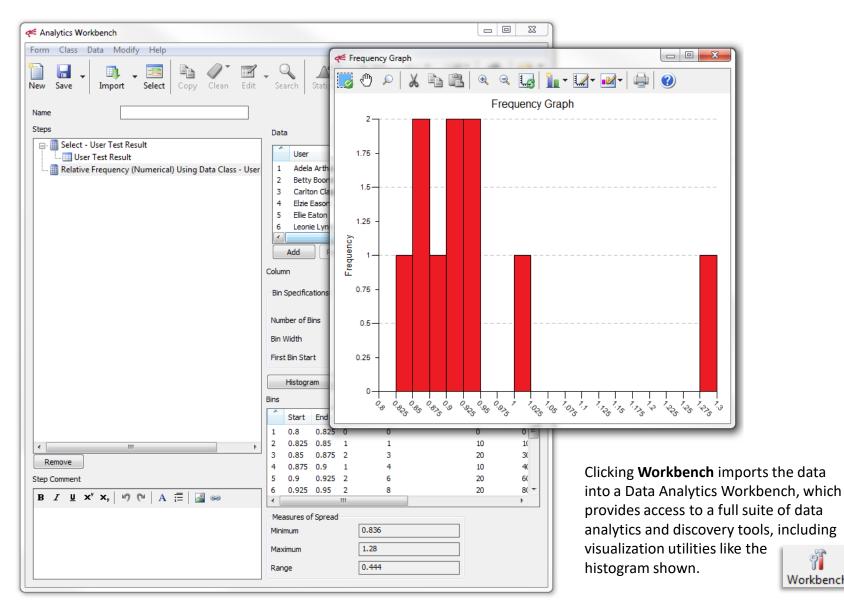
Clicking **Print** opens a print preview, where the full summary can be printed in a clean, easy-to-read format.

Case A1: LAX LV Measurements Good Images - IVS Diastolic Thickness LX Case Left Ventride LAX Measurement IVS Diastolic Thickness LX _Creator Values. Value (cm) 1.02 Classification Normal LAX good normal.mpg Image Frame Index 1 _User Values - Basic Statistics. Mean 0.941 Minimum 0.836 Standard Deviation 0.128 1.28 Maximum Coefficient of Variation 0.136 Range 0.444 Open Data Summary

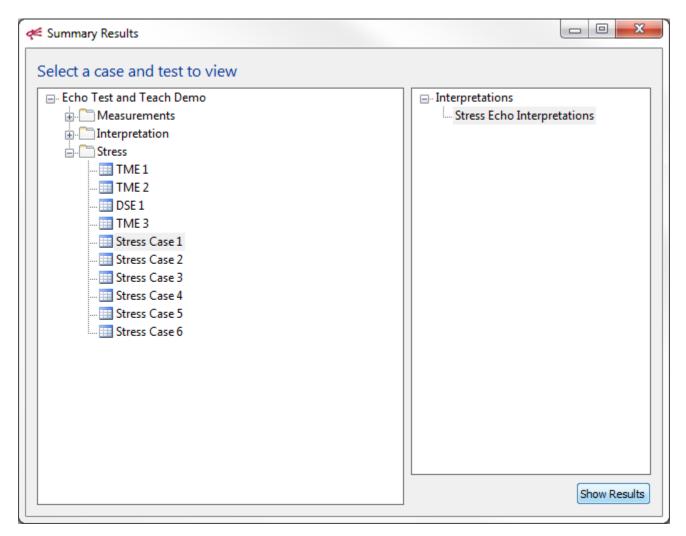
Results Filter All								
	User	Value	Classification	Value Difference	Value % Difference	Image	Frame Index	Frame Difference
1	Adela Arthur	0.859	Normal	-0.16	-15.91	LAX good normal.mpg	1	0
2	Betty Boone	0.922	Normal	-0.1	-9.77	LAX good normal.mpg	1	0
3	Carlton Clapp	0.925	Normal	-0.1	-9.42	LAX good normal.mpg	1	0
4	Elzie Eason	0.906	Normal	-0.12	-11.29	LAX good normal.mpg	2	1
5	Ellie Eaton	0.881	Normal	-0.14	-13.73	LAX good normal.mpg	2	1
6	Leonie Lynn	1.28	Abnormal	0.26	25.42	LAX good normal.mpg	1	0
7	Maybelle Meyers	0.925	Normal	-0.1	-9.42	LAX good normal.mpg	27	-2
8	Meyer Morton	1.01	Normal	-0.02	-1.51	LAX good normal.mpg	1	0
9	Rowland Randall	0.836	Normal	-0.19	-18.15	LAX good normal.mpg	1	0
10	Sena Stone	0.87	Normal	-0.15	-14.82	LAX good normal.mpg	1	0

Values are rounded to 3 significant digits. Value difference is rounded to 2 decimal places.

Page 1 of 1







A full report is also available for all interpretation cases. Let's take a look at **Stress Echo Interpretations**.

K Summary of Interpretations	
Case Stress Case 1	View
Interpretations Stress Echo	
Creator Responses Individual Responses Categorical Summary Outliers	
Description	
 Treadmill Rest: No wall motion abnormalities Post: Distal LAD Akinetic 	

When the interpretation report is compiled, the first section of information that will be presented is the creator's interpretations. This provides a quick way to review the case and understand what the creator specified as the correct interpretations.

🥰 Summary of Interpretations	
Case Stress Case 1 Interpretations Stress Echo Creator Responses Individual Responses Number of Responses 8 Name Date 1 Alice Archer 8 / 8 / 20	Ises Categorical Summary Outliers
2 Billy Branch 8 / 13 / 2 3 Elinor Elliott 8 / 6 / 20 4 Francis Forrest 8 / 11 / 2 5 Helga Hawley 8 / 5 / 20	14 ← Helga Hawley (8/5/14) 014 Form
6 Melvina MacDonald 8 / 11 / 2 7 May McKenzie 8 / 6 / 20 8 Monica Meyer 8 / 12 / 2	14 Name Heiga Hawley
View	Description 1 Treadmill 2 Rest: No wall motion abnormalities 3 Post: LAD Severely hypokinetic

In the **Individual Responses** tab, we can focus in on each user's answers when running the case study. We immediately see a list of all results submitted and the dates of submission. By highlighting a row and clicking **View**, we can view the interpretations that were submitted as part of that result.

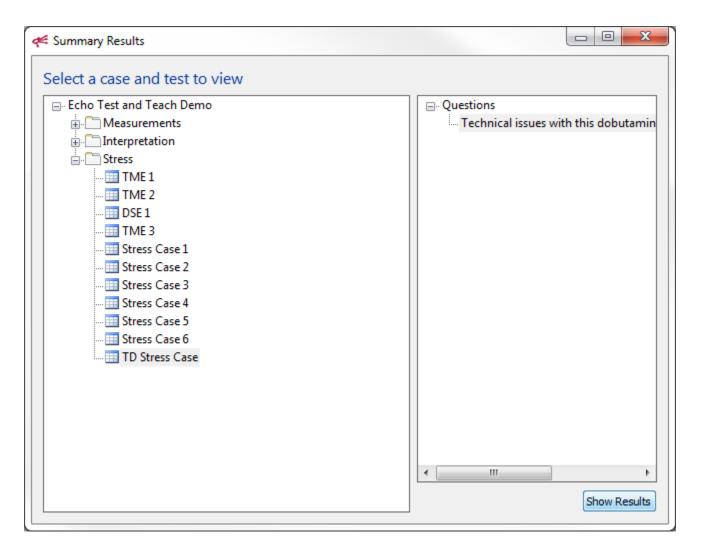
ĺ	Key User Interpretation Results Search
	Form
	Search user interpretations
	Including Including Excluding
	All At Least One
	Interpretation
	1 Post: Distal LAD Akinetic 2 Post: LAD Severely hypokinetic
Case Stress Case 1	Add Remove
Interpretations Stress Echo Creator Responses Individual Responses Categorical Summary Outliers	User Results
Number of Responses 8	Name Date 1 Elinor Elliott 8 / 6 / 2014
Name Date 1 Alice Archer 8 / 8 / 2014 2 Billy Branch 8 / 13 / 2014	2 Melvina MacDonald 8 / 11 / 2014 3 Monica Meyer 8 / 12 / 2014
3 Elinor Elliott 8 / 6 / 2014 4 Francis Forrest 8 / 11 / 2014 5 Helga Hawley 8 / 5 / 2014	View
6 Melvina MacDonald 8 / 11 / 2014 7 May McKenzie 8 / 6 / 2014 8 Monica Meyer 8 / 12 / 2014	
S	earch

On that same tab, we can search for particular types of results by clicking the **Search** button. From here we can specify what types of user results we want to include. In this examples, we want to find all users who specified neither "Post: Distal LAD Akinetic" nor "Post: LAD Severely hypokinetic," and we find there are three users who did just that.

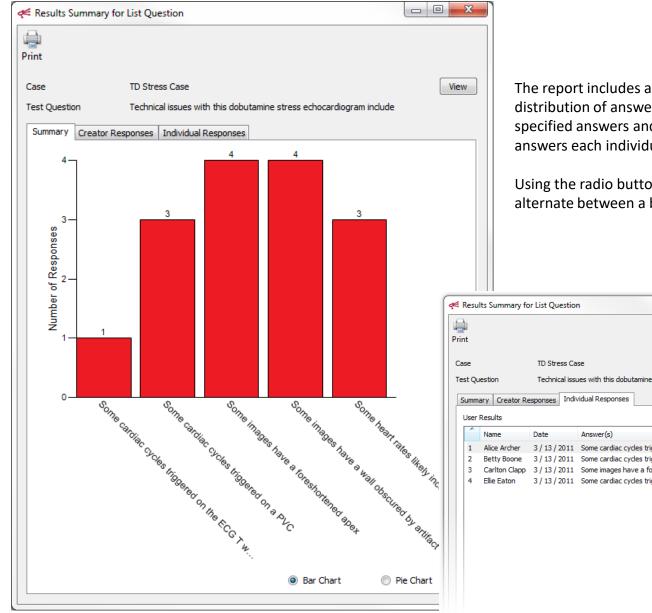
Kan Summary of Interpretations	
Case Stress Case 1 Interpretations Stress Echo	View
Creator Responses Individual Responses Categorical Summary Outliers	Post/Recovery (9)
Sort O Alphabetical O Number O Library	Form Name Post/Recovery
	Distribution User Interpretations Subcategories
	3.5 -
	3-
	2.5 -
	1.5 -
View	
	0.5 -
For a higher-level summary, we move to the Categorical Summary tab where we can see how the users' interpretations are distributed across the available categories.	Cost. Distar LAD Akirotic Rest. Distar LAD Akirotic Akirotic Akirotic Akirotic

∉ :	Sumr	mary of Interpretations			
	erpre	Stress Case 1 etations Stress Echo or Responses Individual Responses	Categorical Summary	View Outliers	
	^	Interpretation	Number of Outliers		
	1	Treadmill	4		
	2	Rest: No wall motion abnormalities	1	de Outliers: Rest: No wall motion abnormalities	
	3	Post: Distal LAD Akinetic	7	Form Rest: No wall motion abnormalities Number of Outliers Outliers Name Date 1 Elinor Elliott 8 / 6 / 2014 View	View

Lastly, much like with the measurement summaries, we can get a report on the outliers for each interpretation entered by the creator. On the summary window, we get a list of the creator's interpretations and the number of users who did not provide that interpretation or an alternative that was deemed close enough. Highlighting any of the rows and clicking **View** brings up a list of the users who are deemed outliers for that interpretation.



Lastly, we can look at the summary report for a case with a test question. Just like the previous reports, we select the question and click **Show Results** to compile the report...



The report includes a summary of the distribution of answers, as well as the creator's specified answers and a report on what answers each individual gave.

Using the radio buttons at the bottom, we can alternate between a bar chart and a pie chart.

¢	1	Resul	ts Summary fo	r List Question	n		3	
Print								
0	Ca	se		TD Stress Ca	se	View		
1	Tes	st Qu	estion	Technical issu	ues with this dobutamine stress echocardiogram include			
	S	umma	ary Creator Re	sponses Indiv	vidual Responses			
		Jser I	Results				וו ר	
		^	Name	Date	Answer(s)			
		1	Alice Archer	3/13/2011	Some cardiac cycles triggered on the ECG T wave ; So			
		2	Betty Boone	3/13/2011	Some cardiac cycles triggered on a PVC ; Some images .			
		3	Carlton Clapp	3/13/2011	Some images have a foreshortened apex ; Some image.			
		4	Ellie Eaton	3 / 13 / 2011	Some cardiac cycles triggered on a PVC ; Some images .			