WEBVTT

NOTE duration:"00:14:37.2910000"

NOTE language:en-us

NOTE Confidence: 0.8579183

00:00:03.840 --> 00:00:06.096 Welcome everyone, we're going to go

NOTE Confidence: 0.8579183

00:00:06.096 --> 00:00:08.641 over a circle tutorial here in order

NOTE Confidence: 0.8579183

00:00:08.641 --> 00:00:10.585 to open up the circle software,

NOTE Confidence: 0.8579183

00:00:10.590 --> 00:00:13.398 you would go to your desktop and you

NOTE Confidence: 0.8579183

00:00:13.398 --> 00:00:15.798 would find the icon. The CBI 42.

NOTE Confidence: 0.8579183

00:00:15.798 --> 00:00:18.461 Once it opens up to look like this

NOTE Confidence: 0.8579183

00:00:18.461 --> 00:00:21.030 an in order to find your patient,

NOTE Confidence: 0.8579183

00:00:21.030 --> 00:00:23.658 you would type in your name and we are

NOTE Confidence: 0.8579183

00:00:23.658 --> 00:00:25.965 putting in an anonymized study so that

NOTE Confidence: 0.8579183

00:00:25.965 --> 00:00:28.539 people can view this video far and wide.

NOTE Confidence: 0.8579183

00:00:28.540 --> 00:00:30.516 So in order to open up the study,

NOTE Confidence: 0.8579183

00:00:30.520 --> 00:00:31.978 you would come here and you

NOTE Confidence: 0.8579183

00:00:31.978 --> 00:00:33.499 would double click on the study.

NOTE Confidence: 0.8575003

00:00:36.580 --> 00:00:39.086 And it will open up this window

NOTE Confidence: 0.8575003

00:00:39.086 --> 00:00:40.989 here normally for importing the

NOTE Confidence: 0.8575003

00:00:40.989 --> 00:00:43.607 data you go to the patient data.

NOTE Confidence: 0.8575003

00:00:43.610 --> 00:00:45.530 You would include the height

NOTE Confidence: 0.8575003

00:00:45.530 --> 00:00:48.412 and also the weight and put that

NOTE Confidence: 0.8575003

00:00:48.412 --> 00:00:50.627 into your power scribe reporting.

NOTE Confidence: 0.8575003

00:00:50.630 --> 00:00:53.262 Then I come to the viewer and

NOTE Confidence: 0.8575003

00:00:53.262 --> 00:00:55.681 under the viewer you would drag

NOTE Confidence: 0.8575003

00:00:55.681 --> 00:00:58.488 in a couple views for the patient,

NOTE Confidence: 0.8575003

00:00:58.490 --> 00:01:01.234 including the short axis stack over here,

NOTE Confidence: 0.8575003

00:01:01.240 --> 00:01:02.626 and then draw.

NOTE Confidence: 0.8575003

00:01:02.626 --> 00:01:06.460 Pull in the four chamber view as well.

NOTE Confidence: 0.8575003

00:01:06.460 --> 00:01:09.645 This is the two Chamber view here.

NOTE Confidence: 0.8575003

00:01:09.650 --> 00:01:12.247 And the Ovilo TV was down here,

NOTE Confidence: 0.8575003

00:01:12.250 --> 00:01:15.042 so you drag all those in an you

NOTE Confidence: 0.8575003

00:01:15.042 --> 00:01:17.697 would come to either one of these

NOTE Confidence: 0.8575003

00:01:17.697 --> 00:01:20.070 icons here to play the Sini.

NOTE Confidence: 0.8575003

00:01:20.070 --> 00:01:22.302 This will give you a gestalt

NOTE Confidence: 0.8575003

00:01:22.302 --> 00:01:23.790 of wall motion abnormalities.

NOTE Confidence: 0.8575003

00:01:23.790 --> 00:01:27.129 You can also take a look at the valves,

NOTE Confidence: 0.8575003

00:01:27.130 --> 00:01:31.456 look at regurgitation and things like that.

NOTE Confidence: 0.8575003

00:01:31.460 --> 00:01:33.998 And then the next thing I like to do

NOTE Confidence: 0.8575003

00:01:33.998 --> 00:01:37.258 is to pull over the short axis stacks in a.

NOTE Confidence: 0.8575003

00:01:37.260 --> 00:01:39.882 This will give you a cut

NOTE Confidence: 0.8575003

00:01:39.882 --> 00:01:41.630 through the left ventricle.

NOTE Confidence: 0.8575003

00:01:41.630 --> 00:01:43.874 So coming over here an you

NOTE Confidence: 0.8575003

00:01:43.874 --> 00:01:45.690 would double click on it,

NOTE Confidence: 0.8575003

00:01:45.690 --> 00:01:48.246 but it will essentially stagger out

NOTE Confidence: 0.8575003

00:01:48.246 --> 00:01:50.912 all the sections across the LV short

NOTE Confidence: 0.8575003

00:01:50.912 --> 00:01:53.428 axis deck and this is a good view

NOTE Confidence: 0.8575003

00:01:53.428 --> 00:01:56.018 for you to evaluate for LV function.

NOTE Confidence: 0.8575003

00:01:56.020 --> 00:01:57.780 But most importantly for this

NOTE Confidence: 0.8575003

00:01:57.780 --> 00:02:00.476 view is to look for wall motion

NOTE Confidence: 0.8575003

00:02:00.476 --> 00:02:03.062 abnormalities so you would click that

NOTE Confidence: 0.8575003

00:02:03.062 --> 00:02:05.544 icon again to play the city images

NOTE Confidence: 0.8575003

00:02:05.544 --> 00:02:08.626 so you can see here at the base of

NOTE Confidence: 0.8575003

00:02:08.626 --> 00:02:12.119 the hard you can see the vertic bow.

NOTE Confidence: 0.8575003

00:02:12.120 --> 00:02:13.690 You can see the Atria,

NOTE Confidence: 0.8575003

00:02:13.690 --> 00:02:16.498 you can see the mitral valve here and then.

NOTE Confidence: 0.8575003

00:02:16.500 --> 00:02:19.004 Here is still the base of the heart.

NOTE Confidence: 0.8575003

00:02:19.010 --> 00:02:20.258 This is the LV.

NOTE Confidence: 0.8575003

00:02:20.258 --> 00:02:21.506 This is the RV,

NOTE Confidence: 0.8575003

00:02:21.510 --> 00:02:24.006 and so this is going from the top,

NOTE Confidence: 0.8575003

00:02:24.010 --> 00:02:25.888 the base coming down as we

NOTE Confidence: 0.8575003

00:02:25.888 --> 00:02:27.140 go through the images.

NOTE Confidence: 0.8575003

00:02:27.140 --> 00:02:29.261 So this is kind of mid model

NOTE Confidence: 0.8575003

00:02:29.261 --> 00:02:30.590 cardio here and then.

NOTE Confidence: 0.8575003

00:02:30.590 --> 00:02:33.410 This is the apex down here.

NOTE Confidence: 0.8575003

00:02:33.410 --> 00:02:36.224 The one other thing that you can

NOTE Confidence: 0.8575003

00:02:36.224 --> 00:02:39.832 do on the viewer is to assess your

NOTE Confidence: 0.8575003

00:02:39.832 --> 00:02:43.380 elvie left or your left atrial size.

NOTE Confidence: 0.8575003

00:02:43.380 --> 00:02:46.579 So you could come play here to

NOTE Confidence: 0.8575003

00:02:46.579 --> 00:02:49.678 find an systole where your left

NOTE Confidence: 0.8575003

00:02:49.678 --> 00:02:51.838 atrium is the largest.

NOTE Confidence: 0.8575003

00:02:51.840 --> 00:02:53.780 So just using your keystrokes,

NOTE Confidence: 0.8575003

00:02:53.780 --> 00:02:56.108 find where your left atrium is.

NOTE Confidence: 0.8575003

00:02:56.110 --> 00:02:59.206 Largest, you can use this tool up here.

NOTE Confidence: 0.8575003

00:02:59.210 --> 00:03:01.740 This blue lasso freehand tool.

NOTE Confidence: 0.8575003

00:03:01.740 --> 00:03:04.100 To trace your left atrium.

NOTE Confidence: 0.8439031

00:03:08.340 --> 00:03:10.188 You could also contour it if

NOTE Confidence: 0.8439031

00:03:10.188 --> 00:03:12.020 you don't like how it went.

NOTE Confidence: 0.8991966

00:03:14.920 --> 00:03:17.044 And then you can click on it so that

NOTE Confidence: 0.8991966

00:03:17.044 --> 00:03:19.096 it stays steady and then click on

NOTE Confidence: 0.8991966

00:03:19.096 --> 00:03:21.359 it again to trace the right atrium.

NOTE Confidence: 0.83544874

00:03:28.360 --> 00:03:30.705 So this will give you the left

NOTE Confidence: 0.83544874

00:03:30.705 --> 00:03:32.779 and the right atrial sizes,

NOTE Confidence: 0.83544874

00:03:32.780 --> 00:03:35.349 so we can see this patient Atria.

NOTE Confidence: 0.83544874

00:03:35.350 --> 00:03:37.432 The left is a little mildly

NOTE Confidence: 0.83544874

00:03:37.432 --> 00:03:39.400 enlarged at 25 centimeters squared,

NOTE Confidence: 0.83544874

00:03:39.400 --> 00:03:41.598 and the right atrium is also mildly

NOTE Confidence: 0.83544874

00:03:41.598 --> 00:03:43.819 enlarged at 20.7 centimeters squared,

NOTE Confidence: 0.83544874

00:03:43.820 --> 00:03:46.389 so that will give you the atrium.

NOTE Confidence: 0.83544874

00:03:46.390 --> 00:03:48.959 So for evaluation of the LV volume

NOTE Confidence: 0.83544874

00:03:48.959 --> 00:03:51.538 metrics as well as the LV function,

NOTE Confidence: 0.83544874

00:03:51.540 --> 00:03:53.076 and also RV function,

NOTE Confidence: 0.83544874

00:03:53.076 --> 00:03:56.166 you would go to the short 3D here

NOTE Confidence: 0.83544874

00:03:56.166 --> 00:03:58.974 and you would go over to the right.

NOTE Confidence: 0.83544874

00:03:58.980 --> 00:04:01.014 To pull the short axis stacks

NOTE Confidence: 0.83544874

00:04:01.014 --> 00:04:03.320 in a which is right here.

NOTE Confidence: 0.83544874

00:04:03.320 --> 00:04:05.130 So you'll drag it over

NOTE Confidence: 0.83544874

00:04:05.130 --> 00:04:06.940 over to this window here,

NOTE Confidence: 0.83544874

00:04:06.940 --> 00:04:10.324 and I'll also drag over one of the Sundays

NOTE Confidence: 0.83544874

00:04:10.324 --> 00:04:14.057 as well that we saw earlier in the viewer.

NOTE Confidence: 0.83544874

00:04:14.060 --> 00:04:18.542 And this is where you would define your LV.

NOTE Confidence: 0.83544874

00:04:18.550 --> 00:04:20.030 Space as well as apex,

NOTE Confidence: 0.83544874

00:04:20.030 --> 00:04:21.806 so it seems like it already

NOTE Confidence: 0.83544874

00:04:21.806 --> 00:04:22.990 has it defined there,

NOTE Confidence: 0.83544874

00:04:22.990 --> 00:04:25.934 but you would come up here you would.

NOTE Confidence: 0.83544874

00:04:25.940 --> 00:04:27.968 Put the base definition and then

NOTE Confidence: 0.83544874

00:04:27.968 --> 00:04:30.169 I'll drag down here to the apex.

NOTE Confidence: 0.83544874

00:04:30.170 --> 00:04:34.314 So it seems like already had that.

NOTE Confidence: 0.83544874

00:04:34.320 --> 00:04:35.955 In order to define the

NOTE Confidence: 0.83544874

00:04:35.955 --> 00:04:36.936 epyon endocardial borders,

NOTE Confidence: 0.83544874

00:04:36.940 --> 00:04:38.595 the easiest way now because

NOTE Confidence: 0.83544874

00:04:38.595 --> 00:04:40.530 it has a pretty good AI,

NOTE Confidence: 0.83544874

00:04:40.530 --> 00:04:43.146 is to come up to this icon here,

NOTE Confidence: 0.83544874

00:04:43.150 --> 00:04:44.956 and it will actually help you

NOTE Confidence: 0.83544874

00:04:44.956 --> 00:04:46.750 define end systole and diastole.

NOTE Confidence: 0.83544874

00:04:46.750 --> 00:04:48.380 It will trace the RV,

NOTE Confidence: 0.83544874

00:04:48.380 --> 00:04:50.336 or trace the Appian endocardial border.

NOTE Confidence: 0.83544874

00:04:50.340 --> 00:04:53.804 So that's what we're going to press here.

NOTE Confidence: 0.83544874

00:04:53.810 --> 00:04:55.943 It's gonna take a little bit of time and

NOTE Confidence: 0.83544874

00:04:55.943 --> 00:04:58.036 it's going to trace everything for you.

NOTE Confidence: 0.83544874

00:04:58.040 --> 00:05:00.386 Alright, so once it races everything,

NOTE Confidence: 0.83544874

00:05:00.390 --> 00:05:02.350 the numbers including the end,

NOTE Confidence: 0.83544874

00:05:02.350 --> 00:05:03.134 diastolic volume,

NOTE Confidence: 0.83544874

00:05:03.134 --> 00:05:04.702 and systolic volume stroke

NOTE Confidence: 0.83544874

00:05:04.702 --> 00:05:05.878 volume injection fraction,

NOTE Confidence: 0.83544874

00:05:05.880 --> 00:05:06.662 cardiac output,

NOTE Confidence: 0.83544874

00:05:06.662 --> 00:05:08.226 index mall cardio mass,

NOTE Confidence: 0.83544874

00:05:08.230 --> 00:05:10.897 and then the indices are going to

NOTE Confidence: 0.83544874

00:05:10.897 --> 00:05:13.953 show up at in this window here and

NOTE Confidence: 0.83544874

00:05:13.953 --> 00:05:17.248 the RV shows up at the bottom here.

NOTE Confidence: 0.83544874

00:05:17.250 --> 00:05:19.596 So going down into this viewer,

NOTE Confidence: 0.83544874

00:05:19.600 --> 00:05:22.337 what these circles and the axis mean?

NOTE Confidence: 0.83544874

00:05:22.340 --> 00:05:25.476 So if you go from top to bottom

NOTE Confidence: 0.83544874

00:05:25.476 --> 00:05:27.438 or along the Y axis,

NOTE Confidence: 0.83544874

00:05:27.440 --> 00:05:31.640 you start with the base of the.

NOTE Confidence: 0.83544874

00:05:31.640 --> 00:05:34.277 So as we come down and it goes all

NOTE Confidence: 0.83544874

00:05:34.277 --> 00:05:37.111 the way down to the apex so you can

NOTE Confidence: 0.83544874

00:05:37.111 --> 00:05:40.399 see that and then along the X axis you

NOTE Confidence: 0.83544874

00:05:40.399 --> 00:05:42.707 go between systole an end diastole.

NOTE Confidence: 0.83544874

00:05:42.707 --> 00:05:45.500 So this one is your end assally.

NOTE Confidence: 0.83544874

00:05:45.500 --> 00:05:47.606 Go get the ventricle get smaller.

NOTE Confidence: 0.83544874

00:05:47.610 --> 00:05:49.014 This is your end.

NOTE Confidence: 0.83544874

00:05:49.014 --> 00:05:51.470 Systole and the machine is picked out,

NOTE Confidence: 0.83544874

00:05:51.470 --> 00:05:54.022 where N Sicily is and it is also

NOTE Confidence: 0.83544874

00:05:54.022 --> 00:05:56.379 picked out where end diastole is.

NOTE Confidence: 0.83544874

00:05:56.380 --> 00:05:58.552 So in general these are about

NOTE Confidence: 0.83544874

00:05:58.552 --> 00:06:00.790 the right size slices for end

NOTE Confidence: 0.83544874

00:06:00.790 --> 00:06:02.920 systole and diastole and you want

NOTE Confidence: 0.83544874

00:06:02.920 --> 00:06:05.628 to check to make sure that it got

NOTE Confidence: 0.83544874

00:06:05.628 --> 00:06:08.209 the right slices and that it's not

NOTE Confidence: 0.83544874

00:06:08.209 --> 00:06:10.807 calling ventricle where there is no

NOTE Confidence: 0.83544874

00:06:10.807 --> 00:06:13.168 ventricle so the base is 10 tends

NOTE Confidence: 0.83544874

00:06:13.168 --> 00:06:15.510 to be the toughest slice to call.

NOTE Confidence: 0.83544874

00:06:15.510 --> 00:06:17.265 But sometimes you would use

NOTE Confidence: 0.83544874

00:06:17.265 --> 00:06:18.318 the stroke volume,

NOTE Confidence: 0.83544874

00:06:18.320 --> 00:06:20.777 match it up with your face contrast,

NOTE Confidence: 0.83544874

00:06:20.780 --> 00:06:22.880 which I will go over next.

NOTE Confidence: 0.83544874

00:06:22.880 --> 00:06:25.680 So just kind of look through your

NOTE Confidence: 0.83544874

00:06:25.680 --> 00:06:28.691 slices and make sure it matches up

NOTE Confidence: 0.83544874

00:06:28.691 --> 00:06:31.283 and that the contours are correct.

NOTE Confidence: 0.83544874

00:06:31.290 --> 00:06:33.140 The overall looks pretty good,

NOTE Confidence: 0.8318443

00:06:33.140 --> 00:06:36.588 so just going now over to the end

NOTE Confidence: 0.8318443

00:06:36.588 --> 00:06:38.914 diastole slices. So coming up.

NOTE Confidence: 0.8318443

00:06:38.914 --> 00:06:40.378 Actually looking here,

NOTE Confidence: 0.8318443

00:06:40.380 --> 00:06:42.510 so this is one example,

NOTE Confidence: 0.8318443

00:06:42.510 --> 00:06:44.988 so this marker here shows you

NOTE Confidence: 0.8318443

00:06:44.988 --> 00:06:47.151 that you're already kind of

NOTE Confidence: 0.8318443

00:06:47.151 --> 00:06:49.316 outside of the right ventricle,

NOTE Confidence: 0.8318443

00:06:49.320 --> 00:06:52.309 but it's calling this the right ventricle,

NOTE Confidence: 0.8318443

00:06:52.310 --> 00:06:55.610 so more or less you can.

NOTE Confidence: 0.8318443

00:06:55.610 --> 00:06:56.543 Delete that slice.

NOTE Confidence: 0.8318443

00:06:56.543 --> 00:06:58.409 If you indeed do not see

NOTE Confidence: 0.8318443

00:06:58.409 --> 00:07:00.319 right ventricle through there.

NOTE Confidence: 0.8318443

00:07:00.320 --> 00:07:02.847 So I'm going to actually go here.

NOTE Confidence: 0.8318443

00:07:02.850 --> 00:07:04.660 Right click and delete that

NOTE Confidence: 0.8318443

00:07:04.660 --> 00:07:05.746 right ventricle slice.

NOTE Confidence: 0.8318443

00:07:05.750 --> 00:07:08.277 I'm going to go up and see.

NOTE Confidence: 0.8318443

00:07:08.280 --> 00:07:10.645 Looks like there is some

NOTE Confidence: 0.8318443

00:07:10.645 --> 00:07:12.064 right ventricle there.

NOTE Confidence: 0.8318443

00:07:12.070 --> 00:07:14.270 This kind of going up.

NOTE Confidence: 0.8318443

00:07:14.270 --> 00:07:16.430 And making sure the tracings are

NOTE Confidence: 0.8318443

00:07:16.430 --> 00:07:19.266 OK and edit them as DB so you know,

NOTE Confidence: 0.8318443

00:07:19.270 --> 00:07:19.922 looking here,

NOTE Confidence: 0.8318443

00:07:19.922 --> 00:07:22.204 you can even kind of narrow the

NOTE Confidence: 0.8318443

00:07:22.204 --> 00:07:23.932 slice for the Epicardial border

NOTE Confidence: 0.8318443

00:07:23.932 --> 00:07:25.930 and you get smooth it out,

NOTE Confidence: 0.8318443

00:07:25.930 --> 00:07:28.093 so you would hold here and kind

NOTE Confidence: 0.8318443

00:07:28.093 --> 00:07:30.494 of just drag it to where you

NOTE Confidence: 0.8318443

00:07:30.494 --> 00:07:32.249 see the epicardial border is.

NOTE Confidence: 0.8318443

00:07:32.250 --> 00:07:34.826 So let's see if another slice we can

NOTE Confidence: 0.8318443

00:07:34.826 --> 00:07:37.580 do something similar so you would come here,

NOTE Confidence: 0.8318443

00:07:37.580 --> 00:07:40.577 drag it to highlight it so it turns green,

NOTE Confidence: 0.8318443

00:07:40.580 --> 00:07:41.570 the Epicardial border,

NOTE Confidence: 0.8318443

00:07:41.570 --> 00:07:44.240 and you would just shrink it like that,

NOTE Confidence: 0.8318443

00:07:44.240 --> 00:07:46.480 and you could smooth it

NOTE Confidence: 0.8318443

00:07:46.480 --> 00:07:48.720 out with this button here.

NOTE Confidence: 0.8318443

00:07:48.720 --> 00:07:51.096 Let me see if there's any other slice

NOTE Confidence: 0.8318443

00:07:51.096 --> 00:07:53.239 that needs a little bit of editing,

NOTE Confidence: 0.8318443

00:07:53.240 --> 00:07:54.932 so now we're getting very close

NOTE Confidence: 0.8318443

00:07:54.932 --> 00:07:57.066 to the base here at the junction

NOTE Confidence: 0.8318443

00:07:57.066 --> 00:07:58.950 of the ventricle and the atrium,

NOTE Confidence: 0.8318443

00:07:58.950 --> 00:08:01.350 let's see if there's anything else

NOTE Confidence: 0.8318443

00:08:01.350 --> 00:08:04.238 we need to edit for this slice.

NOTE Confidence: 0.8318443

00:08:04.240 --> 00:08:07.096 This one is calling this the arviso.

NOTE Confidence: 0.8318443

00:08:07.100 --> 00:08:09.730 Another thing to do is.

NOTE Confidence: 0.8318443

00:08:09.730 --> 00:08:11.778 Play it to see whether or not you

NOTE Confidence: 0.8318443

00:08:11.778 --> 00:08:13.629 actually see RV coming in there does

NOTE Confidence: 0.8318443

00:08:13.629 --> 00:08:15.470 look like it does come in there,

NOTE Confidence: 0.8318443

00:08:15.470 --> 00:08:17.558 so if you could keep keep that there,

NOTE Confidence: 0.8318443

00:08:17.560 --> 00:08:20.288 but you can see whether or not the.

NOTE Confidence: 0.8318443

00:08:20.290 --> 00:08:23.160 Stroke volume and also the.

NOTE Confidence: 0.8318443

00:08:23.160 --> 00:08:24.792 Yeah, it looks normal.

NOTE Confidence: 0.8318443

00:08:24.792 --> 00:08:28.350 If you visually think that it looks normal.

NOTE Confidence: 0.8318443

00:08:28.350 --> 00:08:31.221 Now I'm going to show you the flows so

NOTE Confidence: 0.8318443

00:08:31.221 --> 00:08:34.200 you would go over to the flow segment.

NOTE Confidence: 0.8318443

00:08:34.200 --> 00:08:36.286 Down here on the left and you

NOTE Confidence: 0.8318443

00:08:36.286 --> 00:08:38.472 would find your aortic and also

NOTE Confidence: 0.8318443

00:08:38.472 --> 00:08:39.696 your pulmonary flows.

NOTE Confidence: 0.8318443

00:08:39.700 --> 00:08:42.292 So this is the order flow so you pull

NOTE Confidence: 0.8318443

00:08:42.292 --> 00:08:44.867 it into the phase contrast window on

NOTE Confidence: 0.8318443

00:08:44.867 --> 00:08:47.492 the left here and you would circle

NOTE Confidence: 0.8318443

00:08:47.492 --> 00:08:50.012 your aorta and in order to circle

NOTE Confidence: 0.8318443

00:08:50.020 --> 00:08:52.820 the order you kind of find when the

NOTE Confidence: 0.8318443

00:08:52.820 --> 00:08:56.466 order is kind of circular by toggling on the.

NOTE Confidence: 0.8318443

00:08:56.470 --> 00:08:58.794 Key on the key with the arrows,

NOTE Confidence: 0.8318443

00:08:58.800 --> 00:09:00.846 the right arrow and then you

NOTE Confidence: 0.8318443

00:09:00.846 --> 00:09:02.799 would click this button up here,

NOTE Confidence: 0.8318443

00:09:02.800 --> 00:09:05.408 the first red one.

NOTE Confidence: 0.8318443

00:09:05.410 --> 00:09:07.816 And you would trace your aorta.

NOTE Confidence: 0.8183137

00:09:11.310 --> 00:09:13.634 Then you could always smooth it out.

NOTE Confidence: 0.8183137

00:09:13.640 --> 00:09:15.986 Contour an you would press this

NOTE Confidence: 0.8183137

00:09:15.986 --> 00:09:18.910 button up here to smooth that out.

NOTE Confidence: 0.8183137

00:09:18.910 --> 00:09:20.828 And then in order to take this

NOTE Confidence: 0.8183137

00:09:20.828 --> 00:09:22.100 forward across all phases,

NOTE Confidence: 0.8183137

00:09:22.100 --> 00:09:23.840 you would press this button next.

NOTE Confidence: 0.84524256

00:09:26.150 --> 00:09:28.117 And then it gives you the forward

NOTE Confidence: 0.84524256

00:09:28.117 --> 00:09:29.757 flow through the aorta and you

NOTE Confidence: 0.84524256

00:09:29.757 --> 00:09:31.875 would play it just to see that the

NOTE Confidence: 0.84524256

00:09:31.875 --> 00:09:33.849 tracing around the order is accurate.

NOTE Confidence: 0.84524256

00:09:33.850 --> 00:09:35.548 That is not picking up pulmonary

NOTE Confidence: 0.84524256

00:09:35.548 --> 00:09:36.980 artery or something like that.

NOTE Confidence: 0.84524256

00:09:36.980 --> 00:09:38.410 So it looks pretty good.

NOTE Confidence: 0.84524256

00:09:38.410 --> 00:09:40.690 And then after you get your aorta next,

NOTE Confidence: 0.84524256

00:09:40.690 --> 00:09:43.234 when you want to look at

NOTE Confidence: 0.84524256

00:09:43.234 --> 00:09:44.930 is the pulmonary flow.

NOTE Confidence: 0.84524256

00:09:44.930 --> 00:09:47.558 Owner flows down here.

NOTE Confidence: 0.84524256

00:09:47.560 --> 00:09:50.520 Alright, same thing so you.

NOTE Confidence: 0.84524256

00:09:50.520 --> 00:09:52.452 Advance so that you see kind

NOTE Confidence: 0.84524256

00:09:52.452 --> 00:09:54.240 of a circular pulmonary artery,

NOTE Confidence: 0.84524256

00:09:54.240 --> 00:09:56.256 which is right here and then you

NOTE Confidence: 0.84524256

00:09:56.256 --> 00:09:57.947 would select a different color

NOTE Confidence: 0.84524256

00:09:57.947 --> 00:09:59.847 to contour your pulmonary artery

NOTE Confidence: 0.84524256

00:09:59.847 --> 00:10:01.670 so it contour this here.

NOTE Confidence: 0.7876915

00:10:05.410 --> 00:10:08.819 And then forward it across all slices.

NOTE Confidence: 0.7876915

00:10:08.820 --> 00:10:10.430 By pressing this button here.

NOTE Confidence: 0.77660024

00:10:12.770 --> 00:10:15.950 Shrink that a little bit.

NOTE Confidence: 0.77660024

00:10:15.950 --> 00:10:18.236 Just gonna go through each licensee.

NOTE Confidence: 0.86011094

00:10:21.780 --> 00:10:24.433 If the contours of good and that

NOTE Confidence: 0.86011094

00:10:24.433 --> 00:10:27.108 is not picking up another vessel,

NOTE Confidence: 0.86011094

00:10:27.110 --> 00:10:30.180 so looks pretty good and.

NOTE Confidence: 0.86011094

00:10:30.180 --> 00:10:33.690 Overall there's about a 10CC difference.

NOTE Confidence: 0.86011094

00:10:33.690 --> 00:10:36.396 Between the. LV or the aortic

NOTE Confidence: 0.86011094

00:10:36.396 --> 00:10:39.740 flow and also the pulmonary flow.

NOTE Confidence: 0.86011094

00:10:39.740 --> 00:10:41.540 But you could adjust this.

NOTE Confidence: 0.86011094

00:10:41.540 --> 00:10:43.340 Normally this curve for your

NOTE Confidence: 0.86011094

00:10:43.340 --> 00:10:44.780 flow is automatically there,

NOTE Confidence: 0.86011094

00:10:44.780 --> 00:10:46.940 but if you don't see it,

NOTE Confidence: 0.86011094

00:10:46.940 --> 00:10:48.960 it means that it's essentially

NOTE Confidence: 0.86011094

00:10:48.960 --> 00:10:51.954 closed up and you would come to the

NOTE Confidence: 0.86011094

00:10:51.954 --> 00:10:54.500 left side and try to drag it over.

NOTE Confidence: 0.86011094

00:10:54.500 --> 00:10:56.348 That's essentially what happened

NOTE Confidence: 0.86011094

00:10:56.348 --> 00:10:57.734 for that and.

NOTE Confidence: 0.86011094

00:10:57.740 --> 00:10:59.640 Sometimes you could edit this

NOTE Confidence: 0.86011094

00:10:59.640 --> 00:11:02.692 flow like you can cut out some of

NOTE Confidence: 0.86011094

00:11:02.692 --> 00:11:04.840 this flow from the pulmonary side

NOTE Confidence: 0.86011094

00:11:04.840 --> 00:11:07.513 so that it can match up a little

NOTE Confidence: 0.86011094

00:11:07.513 --> 00:11:09.680 bit more with the systemic flow.

NOTE Confidence: 0.86011094

00:11:09.680 --> 00:11:10.080 Technically,

NOTE Confidence: 0.86011094

00:11:10.080 --> 00:11:12.888 if there is no shunt between the

NOTE Confidence: 0.86011094

00:11:12.888 --> 00:11:14.892 Atria or the ventricle or outside

NOTE Confidence: 0.86011094

00:11:14.892 --> 00:11:17.426 of the heart like the lungs or IVC,

NOTE Confidence: 0.86011094

00:11:17.430 --> 00:11:19.506 or somewhere the systemic flow volume

NOTE Confidence: 0.86011094

00:11:19.506 --> 00:11:22.049 which is seen here should match up

NOTE Confidence: 0.86011094

00:11:22.049 --> 00:11:23.864 with the pulmonary flow volume,

NOTE Confidence: 0.86011094

00:11:23.870 --> 00:11:26.018 which now is like the 78,

NOTE Confidence: 0.86011094

00:11:26.020 --> 00:11:30.458 so let me see if I can.

NOTE Confidence: 0.86011094

00:11:30.460 --> 00:11:33.127 Do that again. OK, there we go.

NOTE Confidence: 0.7995734

00:11:35.170 --> 00:11:38.929 Behavioral OK, so this is the systemic

NOTE Confidence: 0.7995734

00:11:38.929 --> 00:11:42.919 flow and this is the pulmonary flow.

NOTE Confidence: 0.7995734

00:11:42.920 --> 00:11:45.265 And this would be used for calculating

NOTE Confidence: 0.7995734

00:11:45.265 --> 00:11:47.170 assessing for any regurgitation.

NOTE Confidence: 0.7995734

00:11:47.170 --> 00:11:50.250 So you would compare what this volume is.

NOTE Confidence: 0.7995734

00:11:50.250 --> 00:11:52.180 So let's say for example

NOTE Confidence: 0.7995734

00:11:52.180 --> 00:11:53.724 like your systemic flow.

NOTE Confidence: 0.7995734

00:11:53.730 --> 00:11:56.925 With 72, you would go to your short 3D

NOTE Confidence: 0.7995734

00:11:56.925 --> 00:12:00.285 viewer again and look at your stroke volume,

NOTE Confidence: 0.7995734

00:12:00.290 --> 00:12:02.985 so they should match up pretty well,

NOTE Confidence: 0.7995734

00:12:02.990 --> 00:12:05.306 like if this were so 72.

NOTE Confidence: 0.7995734

00:12:05.310 --> 00:12:07.620 So there's like a 10CC difference.

NOTE Confidence: 0.7995734

00:12:07.620 --> 00:12:10.316 If that were real, that means this person

NOTE Confidence: 0.7995734

00:12:10.316 --> 00:12:12.849 is like mild mitral regurgitation.

NOTE Confidence: 0.7995734

00:12:12.850 --> 00:12:16.120 Because the stroke volume was 8283,

NOTE Confidence: 0.7995734

00:12:16.120 --> 00:12:17.803 but the aorta.

NOTE Confidence: 0.7995734

00:12:17.803 --> 00:12:22.640 Only saw 72, so there's a 10CC difference.

NOTE Confidence: 0.7995734

00:12:22.640 --> 00:12:26.048 OK, so once the circles are all traced

NOTE Confidence: 0.7995734

00:12:26.048 --> 00:12:30.059 and you have all your volume metric data,

NOTE Confidence: 0.7995734

00:12:30.060 --> 00:12:32.850 your volumes and your ejection fraction,

NOTE Confidence: 0.7995734

00:12:32.850 --> 00:12:36.050 you would go to your.

NOTE Confidence: 0.7995734

00:12:36.050 --> 00:12:37.510 Powerscribe, and that's where

NOTE Confidence: 0.7995734

00:12:37.510 --> 00:12:40.090 you're going to put all the data,

NOTE Confidence: 0.7995734

00:12:40.090 --> 00:12:42.575 so this is just an example of

NOTE Confidence: 0.7995734

00:12:42.575 --> 00:12:44.859 a template for an MRI stress,

NOTE Confidence: 0.7995734

00:12:44.860 --> 00:12:47.788 and this one allows you to put in,

NOTE Confidence: 0.7995734

00:12:47.790 --> 00:12:49.998 you know, the end diastolic volume.

NOTE Confidence: 0.7995734

00:12:50.000 --> 00:12:52.569 You would put the height and weight,

NOTE Confidence: 0.7995734

00:12:52.570 --> 00:12:54.400 and then your ejection fraction.

NOTE Confidence: 0.7995734

00:12:54.400 --> 00:12:54.736 Actually,

NOTE Confidence: 0.7995734

00:12:54.736 --> 00:12:57.088 I can show you the end diastolic

NOTE Confidence: 0.7995734

00:12:57.088 --> 00:12:59.169 diameter and end systolic diameter.

NOTE Confidence: 0.7995734

00:12:59.170 --> 00:13:01.366 So in order to do that,

NOTE Confidence: 0.7995734

00:13:01.370 --> 00:13:04.306 you would come down to about the mid

NOTE Confidence: 0.7995734

00:13:04.306 --> 00:13:07.500 ventricle. There an use this. Tool.

NOTE Confidence: 0.7995734

00:13:07.500 --> 00:13:11.910 Go across. Or and I actually saw that.

NOTE Confidence: 0.7995734

00:13:11.910 --> 00:13:17.658 Blink is 48.6 millimeters and two.

NOTE Confidence: 0.7995734

00:13:17.660 --> 00:13:20.120 Assess the.

NOTE Confidence: 0.7995734

00:13:20.120 --> 00:13:23.522 Thickness of the internal septum you

NOTE Confidence: 0.7995734

00:13:23.522 --> 00:13:27.100 would trace this portion portion here.

NOTE Confidence: 0.7995734

00:13:27.100 --> 00:13:29.230 Amanda trace the Inferolateral wall.

NOTE Confidence: 0.7995734

00:13:29.230 --> 00:13:31.786 It would be this portion here.

NOTE Confidence: 0.7995734

00:13:31.790 --> 00:13:33.974 So then it gives you thickness

NOTE Confidence: 0.7995734

00:13:33.974 --> 00:13:36.036 of anterior septum and the

NOTE Confidence: 0.7995734

00:13:36.036 --> 00:13:38.180 inferolateral or infralateral wall,

NOTE Confidence: 0.7995734

00:13:38.180 --> 00:13:41.580 and in order to get the end systolic.

NOTE Confidence: 0.7482401

00:13:43.810 --> 00:13:47.010 Diameter, you would trace it on the end.

NOTE Confidence: 0.7482401

00:13:47.010 --> 00:13:50.545 Systole phase here, so are the same.

NOTE Confidence: 0.7482401

00:13:50.550 --> 00:13:52.260 Slice as your diastole face,

NOTE Confidence: 0.7482401

00:13:52.260 --> 00:13:53.970 so this one is 35.

NOTE Confidence: 0.7482401

00:13:53.970 --> 00:13:56.016 So then, in your power scribe,

NOTE Confidence: 0.7482401

00:13:56.020 --> 00:13:58.531 you would be able to put in the end

NOTE Confidence: 0.7482401

00:13:58.531 --> 00:14:00.810 diastolic diameter and systolic diameter,

NOTE Confidence: 0.7482401

00:14:00.810 --> 00:14:03.267 and in the normal MRI they also ask for

NOTE Confidence: 0.7482401

00:14:03.267 --> 00:14:06.103 that Antero septal thickness as well as

NOTE Confidence: 0.7482401

00:14:06.103 --> 00:14:08.329 the inferolateral wall thickness as well.

NOTE Confidence: 0.7482401

00:14:08.330 --> 00:14:11.750 So you just input all the numbers for the LV.

NOTE Confidence: 0.7482401

00:14:11.750 --> 00:14:16.574 All the numbers for the RV put in your.

NOTE Confidence: 0.7482401

00:14:16.580 --> 00:14:18.626 Volumetrics and size for your left

NOTE Confidence: 0.7482401

00:14:18.626 --> 00:14:20.670 and right atrium, and then you.

NOTE Confidence: 0.7482401

00:14:20.670 --> 00:14:22.470 Of course, you would assess you

NOTE Confidence: 0.7482401

00:14:22.470 --> 00:14:24.658 know whether or not the there's any

NOTE Confidence: 0.7482401

00:14:24.658 --> 00:14:26.466 valvular issues through regurgitation,

NOTE Confidence: 0.7482401

00:14:26.470 --> 00:14:29.676 and then this would be a template

NOTE Confidence: 0.7482401

00:14:29.676 --> 00:14:31.050 dictation for that.

NOTE Confidence: 0.7482401

00:14:31.050 --> 00:14:34.418 Right, that's more or less set for today.

NOTE Confidence: 0.7482401

00:14:34.420 --> 00:14:37.288 Thank you everyone for your attention.