WEBVTT

NOTE duration:"00:04:26"

NOTE recognizability:0.859

NOTE language:en-us

NOTE Confidence: 0.859484773

00:00:00.000 --> 00:00:01.911 It's my pleasure to be here with

NOTE Confidence: 0.859484773

00:00:01.911 --> 00:00:03.816 Doctor Steve Radd, a maternal fetal

NOTE Confidence: 0.859484773

00:00:03.816 --> 00:00:05.990 medicine specialist in Los Angeles, CA.

NOTE Confidence: 0.859484773

00:00:05.990 --> 00:00:08.510 And he's going to demonstrate how to

NOTE Confidence: 0.859484773

00:00:08.510 --> 00:00:11.429 do an estimated placental volume.

NOTE Confidence: 0.859484773

00:00:11.430 --> 00:00:13.350 Thank you. So here we are

NOTE Confidence: 0.90930711

00:00:13.620 --> 00:00:16.385 scanning and we're going to

NOTE Confidence: 0.90930711

00:00:16.385 --> 00:00:17.988 be looking at the placenta.

NOTE Confidence: 0.90930711

00:00:17.988 --> 00:00:20.864 As you can see, the placenta is posterior.

NOTE Confidence: 0.90930711

00:00:20.864 --> 00:00:24.450 We want to scan through the placenta.

NOTE Confidence: 0.90930711

00:00:24.450 --> 00:00:26.942 And 1st get a feel and orientation

NOTE Confidence: 0.90930711

00:00:26.942 --> 00:00:29.000 of where the placenta is.

NOTE Confidence: 0.90930711

00:00:29.000 --> 00:00:31.928 We want to find we want to be

NOTE Confidence: 0.90930711

00:00:31.928 --> 00:00:34.339 perpendicular to the plane of the

NOTE Confidence: 0.90930711

00:00:34.339 --> 00:00:37.830 placenta and find a Crescent where

NOTE Confidence: 0.90930711

00:00:37.830 --> 00:00:40.920 the placenta appears Crescent shaped.

NOTE Confidence: 0.90930711

00:00:40.920 --> 00:00:45.600 So here as we scan through the placenta.

NOTE Confidence: 0.90930711

00:00:45.600 --> 00:00:46.788 We notice that.

NOTE Confidence: 0.84939214

00:00:50.150 --> 00:00:53.648 Approximately this area.

NOTE Confidence: 0.84939214

00:00:53.650 --> 00:00:56.920 Where the maximum width. And.

NOTE Confidence: 0.763596775454546

00:00:59.080 --> 00:01:02.041 You can start to tell there's like a climate

NOTE Confidence: 0.763596775454546

00:01:02.041 --> 00:01:04.636 can confirm once you get to that area.

NOTE Confidence: 0.865191201428571

00:01:07.820 --> 00:01:11.120 The edges become a little bit more. Clear.

NOTE Confidence: 0.836412386

00:01:12.610 --> 00:01:13.710 Right. I'll say one thing.

NOTE Confidence: 0.836412386

00:01:13.710 --> 00:01:15.414 When you're exactly perpendicular,

NOTE Confidence: 0.836412386

00:01:15.414 --> 00:01:17.970 these sound waves go down and

NOTE Confidence: 0.836412386

00:01:18.040 --> 00:01:19.905 come back to the transducer

NOTE Confidence: 0.836412386

00:01:19.905 --> 00:01:21.770 and the image becomes sharp.

NOTE Confidence: 0.836412386

00:01:21.770 --> 00:01:24.255 So you're looking for a sharp image

NOTE Confidence: 0.836412386

00:01:24.255 --> 00:01:26.313 across the whole width of the

NOTE Confidence: 0.836412386

00:01:26.313 --> 00:01:28.462 placenta from the tip to the tip

NOTE Confidence: 0.836412386

00:01:28.536 --> 00:01:30.858 when you have this Crescent image.

NOTE Confidence: 0.668693836

00:01:31.230 --> 00:01:32.740 Perfect. I think that's here.

NOTE Confidence: 0.839197145714286

00:01:33.250 --> 00:01:35.175 Excellent. So what do you do next?

NOTE Confidence: 0.798314084285714

00:01:35.350 --> 00:01:37.394 So next we'll be doing some measurements.

NOTE Confidence: 0.798314084285714

00:01:37.400 --> 00:01:38.960 We're going to imagine the.

NOTE Confidence: 0.798314084285714

00:01:38.960 --> 00:01:42.758 A placenta resting on a table.

NOTE Confidence: 0.798314084285714

00:01:42.760 --> 00:01:45.118 And we're going to be first

NOTE Confidence: 0.798314084285714

00:01:45.118 --> 00:01:47.800 measuring the width of the placenta.

NOTE Confidence: 0.798314084285714

00:01:47.800 --> 00:01:50.425 And we do that by measuring

NOTE Confidence: 0.798314084285714

00:01:50.425 --> 00:01:52.795 from each edge of the placenta

NOTE Confidence: 0.798314084285714

00:01:52.795 --> 00:01:55.029 and one edge to the other.

NOTE Confidence: 0.879187254444445

00:02:00.190 --> 00:02:03.322 And that gives us. The width of the placenta.

NOTE Confidence: 0.900734874615385

00:02:04.280 --> 00:02:06.135 Perfect. I'd like to think of this

NOTE Confidence: 0.900734874615385

00:02:06.135 --> 00:02:08.120 as the tip to tip measurement,

NOTE Confidence: 0.900734874615385

00:02:08.120 --> 00:02:10.675 and which you've done in segment #1.

NOTE Confidence: 0.900734874615385

00:02:10.680 --> 00:02:12.620 Perfect. Next, we're going

NOTE Confidence: 0.87940766

00:02:12.630 --> 00:02:15.398 to be measuring the height of the placenta,

NOTE Confidence: 0.87940766

00:02:15.400 --> 00:02:18.768 and we locate the apex of the placenta.

NOTE Confidence: 0.8892056

00:02:22.560 --> 00:02:25.720 And we will measure.

NOTE Confidence: 0.8892056

00:02:25.720 --> 00:02:27.526 From the base of the placenta,

NOTE Confidence: 0.8892056

00:02:27.530 --> 00:02:30.329 a perpendicular line.

NOTE Confidence: 0.8892056

00:02:30.330 --> 00:02:31.650 To our width line.

NOTE Confidence: 0.862727376666667

00:02:33.690 --> 00:02:35.874 And I think of this as think of

NOTE Confidence: 0.862727376666667

00:02:35.874 --> 00:02:38.048 going over a bridge that is curved.

NOTE Confidence: 0.862727376666667

00:02:38.050 --> 00:02:39.710 When you get to the very top of the bridge,

NOTE Confidence: 0.862727376666667

00:02:39.710 --> 00:02:41.426 you know where the apex is.

NOTE Confidence: 0.862727376666667

00:02:41.430 --> 00:02:43.020 That's what you're thinking about

NOTE Confidence: 0.862727376666667

00:02:43.020 --> 00:02:44.866 with this Crescent, you're finding

NOTE Confidence: 0.862727376666667

00:02:44.866 --> 00:02:47.524 the topmost point of this placenta.

NOTE Confidence: 0.817975675

00:02:48.620 --> 00:02:50.700 And we want our lines to be perpendicular.

NOTE Confidence: 0.817975675

00:02:50.700 --> 00:02:53.136 So what I do sometimes is swing

NOTE Confidence: 0.817975675

00:02:53.140 --> 00:02:55.168 side to side just to confirm.

NOTE Confidence: 0.7711546725

00:02:57.590 --> 00:02:59.438 That were exactly perpendicular.

NOTE Confidence: 0.830915022857143

00:03:06.590 --> 00:03:09.810 And then we will save that measurement.

NOTE Confidence: 0.830915022857143

00:03:09.810 --> 00:03:12.210 Next, we're going to measure

NOTE Confidence: 0.830915022857143

00:03:12.210 --> 00:03:13.650 the placenta thickness.

NOTE Confidence: 0.830915022857143

00:03:13.650 --> 00:03:15.491 And that is going to be from

NOTE Confidence: 0.830915022857143

00:03:15.491 --> 00:03:17.298 starting from the same point where

NOTE Confidence: 0.830915022857143

00:03:17.298 --> 00:03:19.924 we measured the height and we

NOTE Confidence: 0.830915022857143

00:03:19.924 --> 00:03:23.638 will draw a line from there to the

NOTE Confidence: 0.830915022857143

00:03:23.638 --> 00:03:26.026 edge of the placenta fetal surface

NOTE Confidence: 0.830915022857143

00:03:26.026 --> 00:03:28.400 where meets the amniotic fluid.

NOTE Confidence: 0.849387124285714

00:03:29.270 --> 00:03:31.244 Perfect. And I'll just make the point.

NOTE Confidence: 0.849387124285714

00:03:31.250 --> 00:03:33.190 This last segment, the thickness

NOTE Confidence: 0.849387124285714

00:03:33.190 --> 00:03:35.540 measurement starts at the same apex

NOTE Confidence: 0.849387124285714

00:03:35.540 --> 00:03:37.955 point and follows exactly the same line

NOTE Confidence: 0.849387124285714

00:03:37.955 --> 00:03:40.248 that you've created for the height and

NOTE Confidence: 0.849387124285714

00:03:40.248 --> 00:03:42.470 that is perfect the way you just did it.

NOTE Confidence: 0.820394992857143

00:03:43.220 --> 00:03:46.472 Precisely. And then we save our

NOTE Confidence: 0.820394992857143

00:03:46.472 --> 00:03:48.548 measurements. And they're listed here

NOTE Confidence: 0.916084540625

00:03:48.840 --> 00:03:51.528 and those measurements can be put into an

NOTE Confidence: 0.916084540625

00:03:51.528 --> 00:03:54.276 app either for an iPhone or Android phone,

NOTE Confidence: 0.916084540625

00:03:54.280 --> 00:03:56.744 or if your machine is able to

NOTE Confidence: 0.916084540625

00:03:56.744 --> 00:03:58.700 take the equation internally,

NOTE Confidence: 0.916084540625

00:03:58.700 --> 00:04:00.344 you can have the machine do

NOTE Confidence: 0.916084540625

00:04:00.344 --> 00:04:01.440 the calculation for you,

NOTE Confidence: 0.916084540625

00:04:01.440 --> 00:04:04.716 but as those 3 numbers the width.

NOTE Confidence: 0.916084540625

00:04:04.720 --> 00:04:06.420 The height and the thickness

NOTE Confidence: 0.916084540625

00:04:06.420 --> 00:04:08.120 measurements 1/2 and three shown

NOTE Confidence: 0.916084540625

00:04:08.176 --> 00:04:10.668 here that allow you to calculate the

NOTE Confidence: 0.916084540625

00:04:10.668 --> 00:04:12.580 three-dimensional volume of this placenta.

NOTE Confidence: 0.889740551428571

00:04:14.350 --> 00:04:17.836 Exactly. And it doesn't take that long.

NOTE Confidence: 0.889740551428571

00:04:17.840 --> 00:04:21.746 And sometimes I I personally repeat it.

NOTE Confidence: 0.889740551428571

00:04:21.750 --> 00:04:23.568 One or two times to confirm,

NOTE Confidence: 0.889740551428571

00:04:23.570 --> 00:04:25.190 and usually you'll get the very

NOTE Confidence: 0.889740551428571

00:04:25.190 --> 00:04:26.000 similar exact measurements.