

WEBVTT

NOTE duration: "00:16:57.984"

NOTE Confidence: 0.9787052

00:00:02.320 --> 00:00:04.180 In this video tutorial,

NOTE Confidence: 0.9977977

00:00:04.960 --> 00:00:06.980 we will review the necessary

NOTE Confidence: 0.9977977

00:00:07.200 --> 00:00:09.139 steps to obtain accurate

NOTE Confidence: 0.9981076

00:00:09.519 --> 00:00:10.980 bladder volume measurements

NOTE Confidence: 0.9971864

00:00:11.280 --> 00:00:12.019 for patients

NOTE Confidence: 0.9333951

00:00:12.400 --> 00:00:13.940 in the pediatric ED,

NOTE Confidence: 0.96815807

00:00:14.795 --> 00:00:15.835 And we will review some

NOTE Confidence: 0.96815807

00:00:15.835 --> 00:00:18.175 cases where this Pocus application

NOTE Confidence: 0.99637604

00:00:18.875 --> 00:00:20.555 can be used to help

NOTE Confidence: 0.99637604

00:00:20.555 --> 00:00:22.414 streamline your patient care.

NOTE Confidence: 0.9715973

00:00:24.875 --> 00:00:26.814 Indications to perform a diagnostic

NOTE Confidence: 0.9715973

00:00:26.875 --> 00:00:28.750 bladder scan include the following.

NOTE Confidence: 0.98623407

00:00:29.130 --> 00:00:29.630 One,

NOTE Confidence: 0.9921142

00:00:31.050 --> 00:00:32.269 prior to urine catheterization

NOTE Confidence: 0.9671021

00:00:32.729 --> 00:00:34.250 to minimize risk of a
NOTE Confidence: 0.9671021

00:00:34.250 --> 00:00:35.070 dry cath.
NOTE Confidence: 0.98764396

00:00:35.530 --> 00:00:36.030 Two,
NOTE Confidence: 0.96394366

00:00:37.129 --> 00:00:39.309 patients with suspected ovarian torsion
NOTE Confidence: 0.96394366

00:00:39.370 --> 00:00:41.784 before radiology performed ultrasound to
NOTE Confidence: 0.96394366

00:00:41.784 --> 00:00:44.125 deem adequacy of bladder filling.
NOTE Confidence: 0.99170184

00:00:45.145 --> 00:00:45.645 Three,
NOTE Confidence: 0.9897759

00:00:46.585 --> 00:00:47.965 patients with urine retention.
NOTE Confidence: 0.99964803

00:00:48.905 --> 00:00:49.405 Four,
NOTE Confidence: 0.79021114

00:00:50.345 --> 00:00:51.485 patients were reported
NOTE Confidence: 0.93791837

00:00:51.864 --> 00:00:53.245 oliguria or anuria.
NOTE Confidence: 0.96425605

00:00:54.120 --> 00:00:54.620 Five,
NOTE Confidence: 0.99705756

00:00:55.800 --> 00:00:57.900 patients with incomplete bladder emptying.
NOTE Confidence: 0.9996743

00:00:59.000 --> 00:00:59.500 Six,
NOTE Confidence: 0.9931879

00:01:00.600 --> 00:01:02.760 patients who require suprapubic bladder
NOTE Confidence: 0.9931879

00:01:02.760 --> 00:01:04.060 aspiration procedure.

NOTE Confidence: 0.99918973
00:01:08.485 --> 00:01:10.405 Diagnostic bladder scans are to
NOTE Confidence: 0.99918973
00:01:10.405 --> 00:01:12.005 be performed with a low
NOTE Confidence: 0.99918973
00:01:12.005 --> 00:01:12.505 frequency
NOTE Confidence: 0.9909785
00:01:13.045 --> 00:01:14.345 curvilinear transducer.
NOTE Confidence: 0.99950963
00:01:18.245 --> 00:01:20.325 To maximize patient comfort and
NOTE Confidence: 0.99950963
00:01:20.325 --> 00:01:21.685 improve the quality of your
NOTE Confidence: 0.99950963
00:01:21.685 --> 00:01:22.185 study,
NOTE Confidence: 0.9891537
00:01:22.710 --> 00:01:24.230 hold the transducer like a
NOTE Confidence: 0.9891537
00:01:24.230 --> 00:01:24.730 pen.
NOTE Confidence: 0.9995781
00:01:25.270 --> 00:01:27.370 With an incorrect grip, unnecessary
NOTE Confidence: 0.9982993
00:01:27.830 --> 00:01:29.830 pressure is often applied to
NOTE Confidence: 0.9982993
00:01:29.830 --> 00:01:30.970 the patient's skin.
NOTE Confidence: 0.9944853
00:01:31.510 --> 00:01:32.790 With a correct grip, the
NOTE Confidence: 0.9944853
00:01:32.790 --> 00:01:34.410 ulnar side of your hand
NOTE Confidence: 0.9944853
00:01:34.550 --> 00:01:35.910 will be directly touching the
NOTE Confidence: 0.9944853

00:01:35.910 --> 00:01:36.890 patient's body.
NOTE Confidence: 0.9950837

00:01:37.270 --> 00:01:38.325 This will allow you to
NOTE Confidence: 0.9950837

00:01:38.325 --> 00:01:40.345 maneuver the probe as necessary
NOTE Confidence: 0.9854887

00:01:40.805 --> 00:01:41.925 and allow for a more
NOTE Confidence: 0.9854887

00:01:41.925 --> 00:01:44.185 comfortable experience for your patient.
NOTE Confidence: 0.99828196

00:01:47.125 --> 00:01:48.405 Please feel free to wear
NOTE Confidence: 0.99828196

00:01:48.405 --> 00:01:50.490 gloves during your ultrasound scan.
NOTE Confidence: 0.9968842

00:01:50.970 --> 00:01:52.409 Many patients will feel more
NOTE Confidence: 0.9968842

00:01:52.409 --> 00:01:54.009 relaxed, and the routine use
NOTE Confidence: 0.9968842

00:01:54.009 --> 00:01:55.930 of gloves will also decrease
NOTE Confidence: 0.9968842

00:01:55.930 --> 00:01:58.170 the risk of infectious disease
NOTE Confidence: 0.9968842

00:01:58.170 --> 00:01:58.670 transmission.
NOTE Confidence: 0.96104115

00:02:01.450 --> 00:02:02.810 Before we dive into the
NOTE Confidence: 0.96104115

00:02:02.810 --> 00:02:05.130 image acquisition steps for your
NOTE Confidence: 0.96104115

00:02:05.130 --> 00:02:06.110 bladder scan,
NOTE Confidence: 0.9997488

00:02:06.784 --> 00:02:08.065 let's review a couple of

NOTE Confidence: 0.9997488
00:02:08.065 --> 00:02:09.925 important housekeeping items.
NOTE Confidence: 0.9323038
00:02:10.705 --> 00:02:12.144 Firstly, the epic order to
NOTE Confidence: 0.9323038
00:02:12.144 --> 00:02:13.345 choose from the quick list
NOTE Confidence: 0.9323038
00:02:13.345 --> 00:02:15.044 menu is ED diagnostic
NOTE Confidence: 0.98199415
00:02:15.425 --> 00:02:16.805 bladder volume eval.
NOTE Confidence: 0.97764874
00:02:17.425 --> 00:02:18.944 Using this correct order will
NOTE Confidence: 0.97764874
00:02:18.944 --> 00:02:20.669 ensure that your images captured
NOTE Confidence: 0.97764874
00:02:20.830 --> 00:02:22.849 will be transferred to Epic,
NOTE Confidence: 0.97764874
00:02:22.990 --> 00:02:24.030 and a report of your
NOTE Confidence: 0.97764874
00:02:24.030 --> 00:02:25.489 interpretation will be generated.
NOTE Confidence: 0.9693385
00:02:26.430 --> 00:02:28.110 Secondly, it is important to
NOTE Confidence: 0.9693385
00:02:28.110 --> 00:02:30.190 fill out QPath immediately after
NOTE Confidence: 0.9693385
00:02:30.190 --> 00:02:31.889 your bladder scan is completed.
NOTE Confidence: 0.9979924
00:02:32.270 --> 00:02:34.190 An attending signature will be
NOTE Confidence: 0.9979924
00:02:34.190 --> 00:02:35.955 required to push both the
NOTE Confidence: 0.9979924

00:02:35.955 --> 00:02:38.675 images and report over to
NOTE Confidence: 0.9979924

00:02:38.675 --> 00:02:39.974 the medical record.
NOTE Confidence: 0.9491149

00:02:42.514 --> 00:02:43.794 First, you will scan through
NOTE Confidence: 0.9491149

00:02:43.794 --> 00:02:45.735 the bladder in transverse orientation
NOTE Confidence: 0.9891894

00:02:46.114 --> 00:02:47.394 with the indicator towards the
NOTE Confidence: 0.9891894

00:02:47.394 --> 00:02:49.235 patient right. Make sure you're
NOTE Confidence: 0.9891894

00:02:49.235 --> 00:02:50.114 all the way down to
NOTE Confidence: 0.9891894

00:02:50.114 --> 00:02:51.790 the pubic symphysis in order
NOTE Confidence: 0.9891894

00:02:51.790 --> 00:02:53.169 to visualize the bladder,
NOTE Confidence: 0.9993839

00:02:53.630 --> 00:02:55.569 and slowly fan the probe
NOTE Confidence: 0.9993839

00:02:55.630 --> 00:02:56.770 all the way through.
NOTE Confidence: 0.9970525

00:02:59.150 --> 00:03:00.590 Next, you will turn the
NOTE Confidence: 0.9970525

00:03:00.590 --> 00:03:02.669 probe clockwise ninety degrees so
NOTE Confidence: 0.9970525

00:03:02.669 --> 00:03:03.950 that the indicator is pointing
NOTE Confidence: 0.9970525

00:03:03.950 --> 00:03:05.010 towards the patient's
NOTE Confidence: 0.9538757

00:03:05.825 --> 00:03:06.784 head. In this view, you

NOTE Confidence: 0.9538757
00:03:06.784 --> 00:03:07.985 will see the bladder in
NOTE Confidence: 0.9538757
00:03:07.985 --> 00:03:08.724 long axis.
NOTE Confidence: 0.98076254
00:03:09.025 --> 00:03:10.784 Again, you want to slowly
NOTE Confidence: 0.98076254
00:03:10.784 --> 00:03:11.985 fan the probe all the
NOTE Confidence: 0.98076254
00:03:11.985 --> 00:03:13.345 way through and keep an
NOTE Confidence: 0.98076254
00:03:13.345 --> 00:03:14.704 eye out for any abnormal
NOTE Confidence: 0.98076254
00:03:14.704 --> 00:03:16.625 lesions or masses that may
NOTE Confidence: 0.98076254
00:03:16.625 --> 00:03:18.805 be present behind the bladder.
NOTE Confidence: 0.9959862
00:03:21.250 --> 00:03:22.209 In the next step, we
NOTE Confidence: 0.9959862
00:03:22.209 --> 00:03:23.489 will review how to actually
NOTE Confidence: 0.9959862
00:03:23.489 --> 00:03:25.510 obtain your bladder volume measurements.
NOTE Confidence: 0.96751726
00:03:26.290 --> 00:03:27.169 As long as you're using
NOTE Confidence: 0.96751726
00:03:27.169 --> 00:03:29.569 a curvilinear probe utilizing the
NOTE Confidence: 0.96751726
00:03:29.569 --> 00:03:31.909 abdominal or pelvic exam mode,
NOTE Confidence: 0.9978963
00:03:32.209 --> 00:03:33.169 you'll be able to pull
NOTE Confidence: 0.9978963

00:03:33.169 --> 00:03:34.790 up the right calculator.
NOTE Confidence: 0.99985677

00:03:35.265 --> 00:03:36.545 Let's look at the buttons
NOTE Confidence: 0.99985677

00:03:36.545 --> 00:03:37.284 that are
NOTE Confidence: 0.99412984

00:03:37.584 --> 00:03:39.525 squared off in pink boxes.
NOTE Confidence: 0.9887768

00:03:39.905 --> 00:03:41.345 You will once again return
NOTE Confidence: 0.9887768

00:03:41.345 --> 00:03:43.424 to transverse orientation and find
NOTE Confidence: 0.9887768

00:03:43.424 --> 00:03:44.704 the bladder where you see
NOTE Confidence: 0.9887768

00:03:44.704 --> 00:03:46.644 it at its biggest size
NOTE Confidence: 0.9887768

00:03:46.784 --> 00:03:48.165 and hit freeze.
NOTE Confidence: 0.9515123

00:03:48.770 --> 00:03:50.630 Here, you will enter the
NOTE Confidence: 0.9515123

00:03:50.690 --> 00:03:52.290 calque button all the way
NOTE Confidence: 0.9515123

00:03:52.290 --> 00:03:53.110 on the left.
NOTE Confidence: 0.9971507

00:03:53.570 --> 00:03:54.530 This will allow you to
NOTE Confidence: 0.9971507

00:03:54.530 --> 00:03:56.210 enter your first measurement, which
NOTE Confidence: 0.9971507

00:03:56.210 --> 00:03:57.670 will be the height.
NOTE Confidence: 0.99958074

00:03:58.210 --> 00:03:59.490 When you push the measure

NOTE Confidence: 0.99958074
00:03:59.490 --> 00:04:01.350 button, a caliper will appear
NOTE Confidence: 0.99958074
00:04:01.410 --> 00:04:02.630 on your screen monitor.
NOTE Confidence: 0.9789742
00:04:03.135 --> 00:04:04.355 You can use the trackpad
NOTE Confidence: 0.9789742
00:04:04.415 --> 00:04:06.095 to move the caliper from
NOTE Confidence: 0.9789742
00:04:06.095 --> 00:04:07.135 the top of the bladder
NOTE Confidence: 0.9789742
00:04:07.135 --> 00:04:07.935 to the bottom of the
NOTE Confidence: 0.9789742
00:04:07.935 --> 00:04:08.435 bladder.
NOTE Confidence: 0.9947863
00:04:08.815 --> 00:04:10.095 You can then repeat these
NOTE Confidence: 0.9947863
00:04:10.095 --> 00:04:10.595 steps
NOTE Confidence: 0.897288
00:04:10.895 --> 00:04:12.595 still in transverse orientation
NOTE Confidence: 0.96519554
00:04:12.975 --> 00:04:14.834 to obtain a width measurement,
NOTE Confidence: 0.9987897
00:04:15.400 --> 00:04:16.680 and you can now save
NOTE Confidence: 0.9987897
00:04:16.680 --> 00:04:17.960 a still image of your
NOTE Confidence: 0.9987897
00:04:17.960 --> 00:04:20.200 transverse measurements by hitting the
NOTE Confidence: 0.9987897
00:04:20.200 --> 00:04:21.339 acquire button.
NOTE Confidence: 0.9725471

00:04:21.800 --> 00:04:23.560 To obtain your bladder length
NOTE Confidence: 0.9725471

00:04:23.560 --> 00:04:25.260 measurement, you'll have to unfreeze
NOTE Confidence: 0.9725471

00:04:25.320 --> 00:04:26.680 the screen by hitting the
NOTE Confidence: 0.9725471

00:04:26.680 --> 00:04:28.360 two d mode button that
NOTE Confidence: 0.9725471

00:04:28.360 --> 00:04:29.800 is an orange color above
NOTE Confidence: 0.9725471

00:04:29.800 --> 00:04:31.285 the track pad. You will
NOTE Confidence: 0.9725471

00:04:31.285 --> 00:04:32.565 once again hit the calque
NOTE Confidence: 0.9725471

00:04:32.565 --> 00:04:34.565 button, and the machine will
NOTE Confidence: 0.9725471

00:04:34.565 --> 00:04:36.185 remember your prior two measurements
NOTE Confidence: 0.9725471

00:04:36.245 --> 00:04:37.464 and allow you to
NOTE Confidence: 0.99791145

00:04:37.925 --> 00:04:39.545 now obtain a
NOTE Confidence: 0.97436076

00:04:40.085 --> 00:04:41.225 third measurement.
NOTE Confidence: 0.998597

00:04:42.165 --> 00:04:43.845 Place the caliper on the
NOTE Confidence: 0.998597

00:04:43.845 --> 00:04:45.945 trigone area of the bladder
NOTE Confidence: 0.94246465

00:04:46.940 --> 00:04:49.360 and obtain the longest distance
NOTE Confidence: 0.99686533

00:04:49.820 --> 00:04:50.320 seen

NOTE Confidence: 0.99954236
00:04:50.620 --> 00:04:52.460 towards the bottom part of
NOTE Confidence: 0.99954236
00:04:52.460 --> 00:04:53.120 the bladder.
NOTE Confidence: 0.9812749
00:04:53.980 --> 00:04:55.900 Once you obtain this final
NOTE Confidence: 0.9812749
00:04:55.900 --> 00:04:56.400 measurement,
NOTE Confidence: 0.9989842
00:04:57.180 --> 00:04:59.120 the ultrasound machine will automatically
NOTE Confidence: 0.9989842
00:04:59.260 --> 00:05:01.360 generate the bladder volume using
NOTE Confidence: 0.9980257
00:05:01.964 --> 00:05:03.104 a predesignated
NOTE Confidence: 0.99984384
00:05:03.564 --> 00:05:04.064 formula
NOTE Confidence: 0.9996162
00:05:04.525 --> 00:05:06.044 that has been programmed into
NOTE Confidence: 0.9996162
00:05:06.044 --> 00:05:06.705 the system.
NOTE Confidence: 0.96940106
00:05:08.925 --> 00:05:09.964 Your final step will be
NOTE Confidence: 0.96940106
00:05:09.964 --> 00:05:11.645 to interpret your, point of
NOTE Confidence: 0.96940106
00:05:11.645 --> 00:05:13.085 care ultrasound findings related to
NOTE Confidence: 0.96940106
00:05:13.085 --> 00:05:13.740 the bladder.
NOTE Confidence: 0.9757837
00:05:14.060 --> 00:05:15.259 Depending on why you're doing
NOTE Confidence: 0.9757837

00:05:15.259 --> 00:05:16.060 the study in the first
NOTE Confidence: 0.9757837

00:05:16.060 --> 00:05:17.259 place, you will make an
NOTE Confidence: 0.9757837

00:05:17.259 --> 00:05:18.940 assessment whether there is sufficient
NOTE Confidence: 0.9757837

00:05:18.940 --> 00:05:20.620 or insufficient amount of urine
NOTE Confidence: 0.9757837

00:05:20.620 --> 00:05:21.680 for a catheterization
NOTE Confidence: 0.8797399

00:05:22.060 --> 00:05:23.819 procedure and likewise sufficient or
NOTE Confidence: 0.8797399

00:05:23.819 --> 00:05:25.520 insufficient amount of urine for
NOTE Confidence: 0.89319664

00:05:25.979 --> 00:05:27.979 radiology performed ultrasound to assess
NOTE Confidence: 0.89319664

00:05:27.979 --> 00:05:29.185 for ovarian ovarian pathology.
NOTE Confidence: 0.9974091

00:05:29.645 --> 00:05:30.685 And you will also be
NOTE Confidence: 0.9974091

00:05:30.685 --> 00:05:31.884 asked to provide a general
NOTE Confidence: 0.9974091

00:05:31.884 --> 00:05:33.085 assessment of the amount of
NOTE Confidence: 0.9974091

00:05:33.085 --> 00:05:34.365 urine in the bladder, which
NOTE Confidence: 0.9974091

00:05:34.365 --> 00:05:35.664 you will correlate clinically
NOTE Confidence: 0.94778174

00:05:36.044 --> 00:05:37.724 and apply those volume measurements
NOTE Confidence: 0.94778174

00:05:37.724 --> 00:05:40.044 to expected bladder capacity and

NOTE Confidence: 0.94778174
00:05:40.044 --> 00:05:42.205 established norms for post void
NOTE Confidence: 0.94778174
00:05:42.205 --> 00:05:42.705 residuals.
NOTE Confidence: 0.99935573
00:05:45.430 --> 00:05:46.389 The good news is that
NOTE Confidence: 0.99935573
00:05:46.389 --> 00:05:47.589 you will not be expected
NOTE Confidence: 0.99935573
00:05:47.589 --> 00:05:48.810 to memorize anything.
NOTE Confidence: 0.9574933
00:05:49.349 --> 00:05:51.110 All of the necessary formulas
NOTE Confidence: 0.9574933
00:05:51.110 --> 00:05:52.310 that you may need will
NOTE Confidence: 0.9574933
00:05:52.310 --> 00:05:54.310 be embedded into the Q
NOTE Confidence: 0.9574933
00:05:54.310 --> 00:05:55.210 Path worksheet
NOTE Confidence: 0.9897935
00:05:55.669 --> 00:05:57.289 created for bladder volume
NOTE Confidence: 0.98894864
00:05:57.705 --> 00:05:59.404 evaluations in our ED.
NOTE Confidence: 0.9867924
00:06:00.185 --> 00:06:01.305 This will help you with
NOTE Confidence: 0.9867924
00:06:01.305 --> 00:06:02.824 your interpretations as you fill
NOTE Confidence: 0.9867924
00:06:02.824 --> 00:06:03.645 out the
NOTE Confidence: 0.9991053
00:06:03.945 --> 00:06:06.125 worksheet findings in real time.
NOTE Confidence: 0.99449414

00:06:08.824 --> 00:06:10.104 So let's look at some
NOTE Confidence: 0.99449414
00:06:10.104 --> 00:06:11.085 practice cases.
NOTE Confidence: 0.92579055
00:06:15.800 --> 00:06:16.700 Case one.
NOTE Confidence: 0.95465577
00:06:17.240 --> 00:06:18.040 A two year old girl
NOTE Confidence: 0.95465577
00:06:18.040 --> 00:06:20.140 with Lennox Gastaut seizure disorder,
NOTE Confidence: 0.9514901
00:06:20.760 --> 00:06:22.760 g tube dependence, neurogenic bladder,
NOTE Confidence: 0.9514901
00:06:22.760 --> 00:06:24.435 and global developmental delay
NOTE Confidence: 0.9882867
00:06:24.915 --> 00:06:27.154 presents with unexplained tachycardia and
NOTE Confidence: 0.9882867
00:06:27.154 --> 00:06:28.855 increase in seizure frequency.
NOTE Confidence: 0.992515
00:06:29.875 --> 00:06:31.075 As part of her workup,
NOTE Confidence: 0.992515
00:06:31.075 --> 00:06:32.535 urine testing is ordered.
NOTE Confidence: 0.9724039
00:06:33.395 --> 00:06:34.675 Mom opts to do a
NOTE Confidence: 0.9724039
00:06:34.675 --> 00:06:36.755 urine catheterization herself as she's
NOTE Confidence: 0.9724039
00:06:36.755 --> 00:06:38.250 routinely does this at home,
NOTE Confidence: 0.9960124
00:06:38.730 --> 00:06:40.170 but she was unsuccessful and
NOTE Confidence: 0.9960124
00:06:40.170 --> 00:06:41.930 reports was unable to obtain

NOTE Confidence: 0.9960124
00:06:41.930 --> 00:06:42.750 any urine.
NOTE Confidence: 0.95819676
00:06:43.610 --> 00:06:44.970 She is very concerned that
NOTE Confidence: 0.95819676
00:06:44.970 --> 00:06:46.270 her daughter is dehydrated,
NOTE Confidence: 0.9998145
00:06:46.570 --> 00:06:48.010 and the nursing staff does
NOTE Confidence: 0.9998145
00:06:48.010 --> 00:06:49.690 not feel comfortable performing a
NOTE Confidence: 0.9998145
00:06:49.690 --> 00:06:50.750 repeat catheterization
NOTE Confidence: 0.9955794
00:06:51.850 --> 00:06:52.830 at this time.
NOTE Confidence: 0.9547147
00:06:55.265 --> 00:06:56.625 You first record the bladder
NOTE Confidence: 0.9547147
00:06:56.625 --> 00:06:58.005 in transverse orientation,
NOTE Confidence: 0.9959501
00:06:58.385 --> 00:06:59.825 and although it appears less
NOTE Confidence: 0.9959501
00:06:59.825 --> 00:07:01.425 round than you usually expect,
NOTE Confidence: 0.9959501
00:07:01.425 --> 00:07:02.464 there seems to be a
NOTE Confidence: 0.9959501
00:07:02.464 --> 00:07:03.925 fair amount of urine present.
NOTE Confidence: 0.99682224
00:07:05.345 --> 00:07:06.625 You then rotate the probe
NOTE Confidence: 0.99682224
00:07:06.625 --> 00:07:07.365 ninety degrees
NOTE Confidence: 0.9484108

00:07:07.665 --> 00:07:08.165 and
NOTE Confidence: 0.9501458
00:07:08.639 --> 00:07:10.080 assess the bladder in a
NOTE Confidence: 0.9501458
00:07:10.080 --> 00:07:10.580 longitudinal
NOTE Confidence: 0.9992168
00:07:10.880 --> 00:07:11.380 orientation
NOTE Confidence: 0.90333617
00:07:12.000 --> 00:07:13.460 where once again the bladder
NOTE Confidence: 0.90333617
00:07:13.520 --> 00:07:14.720 is seem to be filled
NOTE Confidence: 0.90333617
00:07:14.720 --> 00:07:16.419 with plenty of urine.
NOTE Confidence: 0.93792915
00:07:19.280 --> 00:07:20.565 You go back to transfer
NOTE Confidence: 0.93792915
00:07:20.805 --> 00:07:22.665 orientation and freeze the screen.
NOTE Confidence: 0.99585104
00:07:23.045 --> 00:07:25.445 Obtain a height measurement from
NOTE Confidence: 0.99585104
00:07:25.445 --> 00:07:26.345 top to bottom.
NOTE Confidence: 0.9990208
00:07:27.045 --> 00:07:29.205 Obtain a width measurement from
NOTE Confidence: 0.9990208
00:07:29.205 --> 00:07:30.105 left to right.
NOTE Confidence: 0.9995718
00:07:30.725 --> 00:07:31.625 Save that image.
NOTE Confidence: 0.98254323
00:07:32.485 --> 00:07:34.425 You then get the length
NOTE Confidence: 0.98254323
00:07:34.485 --> 00:07:36.320 of the bladder in longitudinal

NOTE Confidence: 0.98254323
00:07:36.540 --> 00:07:37.040 orientation,
NOTE Confidence: 0.998976
00:07:37.500 --> 00:07:39.980 placing the calipers across the
NOTE Confidence: 0.998976
00:07:39.980 --> 00:07:41.840 longest possible distance.
NOTE Confidence: 0.9121237
00:07:42.940 --> 00:07:45.440 The ultrasound machine automatically calculates
NOTE Confidence: 0.99146295
00:07:45.820 --> 00:07:46.880 the volume
NOTE Confidence: 0.9746167
00:07:47.340 --> 00:07:49.600 estimate of eighty two cc's.
NOTE Confidence: 0.9983565
00:07:52.685 --> 00:07:54.625 You review these findings with
NOTE Confidence: 0.99012864
00:07:55.085 --> 00:07:57.005 mom and the nursing staff
NOTE Confidence: 0.99012864
00:07:57.005 --> 00:07:58.625 and feel that a
NOTE Confidence: 0.9903679
00:07:59.005 --> 00:08:01.185 repeat attempt at urine catheterization
NOTE Confidence: 0.9993861
00:08:02.125 --> 00:08:02.865 would be
NOTE Confidence: 0.9997677
00:08:03.165 --> 00:08:04.385 reasonable to perform.
NOTE Confidence: 0.999001
00:08:07.259 --> 00:08:08.240 Repeat catheterization
NOTE Confidence: 0.98629373
00:08:08.860 --> 00:08:11.280 is successful and ultimately diagnostic
NOTE Confidence: 0.98629373
00:08:11.340 --> 00:08:13.199 for a urinary tract infection
NOTE Confidence: 0.98629373

00:08:13.419 --> 00:08:15.099 with, greater than one hundred
NOTE Confidence: 0.98629373

00:08:15.099 --> 00:08:15.599 thousand
NOTE Confidence: 0.9730337

00:08:16.060 --> 00:08:17.595 colony forming units of enterococcus.
NOTE Confidence: 0.9439833

00:08:18.475 --> 00:08:20.235 A renal ultrasound performed by
NOTE Confidence: 0.9439833

00:08:20.235 --> 00:08:22.795 diagnostic radiology revealed debris within
NOTE Confidence: 0.9439833

00:08:22.795 --> 00:08:23.995 the right ureter, which was
NOTE Confidence: 0.9439833

00:08:23.995 --> 00:08:24.975 causing obstruction,
NOTE Confidence: 0.93475866

00:08:25.755 --> 00:08:26.815 and hydroureteronephrosis,
NOTE Confidence: 0.99503374

00:08:28.875 --> 00:08:30.715 which was managed by the
NOTE Confidence: 0.99503374

00:08:30.715 --> 00:08:31.215 inpatient
NOTE Confidence: 0.99780893

00:08:31.690 --> 00:08:32.190 urology
NOTE Confidence: 0.99825954

00:08:33.530 --> 00:08:34.030 service.
NOTE Confidence: 0.9725663

00:08:35.370 --> 00:08:36.490 So as it turns out,
NOTE Confidence: 0.9725663

00:08:36.490 --> 00:08:37.690 it does not take much
NOTE Confidence: 0.9725663

00:08:37.690 --> 00:08:39.950 urine at all to predict
NOTE Confidence: 0.9725663

00:08:40.090 --> 00:08:41.230 a successful catheterization

NOTE Confidence: 0.986073
00:08:41.770 --> 00:08:43.210 in patients under two years
NOTE Confidence: 0.986073
00:08:43.210 --> 00:08:43.950 of age.
NOTE Confidence: 0.9167382
00:08:44.570 --> 00:08:47.005 Without focus to visualize bladder
NOTE Confidence: 0.9167382
00:08:47.005 --> 00:08:47.505 contents,
NOTE Confidence: 0.9992531
00:08:47.885 --> 00:08:49.985 the rate of successful urine
NOTE Confidence: 0.9992531
00:08:50.045 --> 00:08:50.545 catheterization
NOTE Confidence: 0.98643595
00:08:50.925 --> 00:08:52.445 in this age group was
NOTE Confidence: 0.98643595
00:08:52.445 --> 00:08:53.804 published to be seventy two
NOTE Confidence: 0.98643595
00:08:53.804 --> 00:08:56.125 percent during the observational phase
NOTE Confidence: 0.98643595
00:08:56.125 --> 00:08:57.245 of a study published by
NOTE Confidence: 0.98643595
00:08:57.245 --> 00:08:58.500 Chen et al. In two
NOTE Confidence: 0.98643595
00:08:58.500 --> 00:09:00.900 thousand and five. However, when
NOTE Confidence: 0.98643595
00:09:00.900 --> 00:09:03.300 the investigators applied POCUS to
NOTE Confidence: 0.98643595
00:09:03.300 --> 00:09:04.660 determine whether there was at
NOTE Confidence: 0.98643595
00:09:04.660 --> 00:09:06.820 least two cc's of urine
NOTE Confidence: 0.98643595

00:09:06.820 --> 00:09:08.420 present in the bladder, the
NOTE Confidence: 0.98643595

00:09:08.420 --> 00:09:09.480 rate of successful
NOTE Confidence: 0.99960357

00:09:09.860 --> 00:09:10.360 catheterization
NOTE Confidence: 0.9937102

00:09:10.900 --> 00:09:12.580 when done by nursing staff
NOTE Confidence: 0.9937102

00:09:12.580 --> 00:09:14.135 was reported to be as
NOTE Confidence: 0.9937102

00:09:14.135 --> 00:09:15.995 high as ninety six percent.
NOTE Confidence: 0.99947613

00:09:17.495 --> 00:09:18.795 Case two highlights
NOTE Confidence: 0.9980996

00:09:19.335 --> 00:09:20.875 the point of care ultrasound
NOTE Confidence: 0.9980996

00:09:20.934 --> 00:09:23.255 role in ovarian torsion to
NOTE Confidence: 0.9980996

00:09:23.255 --> 00:09:24.554 expedite confirmatory
NOTE Confidence: 0.99972796

00:09:24.855 --> 00:09:25.355 testing.
NOTE Confidence: 0.9814604

00:09:26.090 --> 00:09:27.210 Here we have an eighteen
NOTE Confidence: 0.9814604

00:09:27.210 --> 00:09:28.890 year old female who presents
NOTE Confidence: 0.9814604

00:09:28.890 --> 00:09:30.990 with sudden onset of intense
NOTE Confidence: 0.9814604

00:09:31.130 --> 00:09:32.730 right lower quadrant pain and
NOTE Confidence: 0.9814604

00:09:32.730 --> 00:09:33.230 nausea.

NOTE Confidence: 0.9958107
00:09:34.010 --> 00:09:35.370 She reports no fever or
NOTE Confidence: 0.9958107
00:09:35.370 --> 00:09:35.870 hematuria,
NOTE Confidence: 0.99592686
00:09:36.890 --> 00:09:38.830 denies the possibility of pregnancy,
NOTE Confidence: 0.99881506
00:09:39.264 --> 00:09:40.225 and has never had a
NOTE Confidence: 0.99881506
00:09:40.225 --> 00:09:41.125 pelvic exam.
NOTE Confidence: 0.9686376
00:09:41.665 --> 00:09:42.785 For you, she is very
NOTE Confidence: 0.9686376
00:09:42.785 --> 00:09:44.625 tearful and uncomfortable and is
NOTE Confidence: 0.9686376
00:09:44.625 --> 00:09:45.745 tender to touch to the
NOTE Confidence: 0.9686376
00:09:45.745 --> 00:09:47.125 right lower quadrant area.
NOTE Confidence: 0.9885017
00:09:47.665 --> 00:09:49.024 You need to prioritize getting
NOTE Confidence: 0.9885017
00:09:49.024 --> 00:09:51.024 a urine sample with a
NOTE Confidence: 0.9885017
00:09:51.024 --> 00:09:51.524 transabdominal
NOTE Confidence: 0.9999219
00:09:51.904 --> 00:09:52.404 ultrasound
NOTE Confidence: 0.99908626
00:09:52.865 --> 00:09:54.360 to assess for ovarian torsion.
NOTE Confidence: 0.9397698
00:09:55.140 --> 00:09:56.660 You record her bladder in
NOTE Confidence: 0.9397698

00:09:56.660 --> 00:09:57.720 transverse orientation
NOTE Confidence: 0.9482691

00:09:58.100 --> 00:10:00.260 and note a nicely fluid
NOTE Confidence: 0.9482691

00:10:00.260 --> 00:10:02.440 filled structure with posterior acoustic
NOTE Confidence: 0.9482691

00:10:02.500 --> 00:10:03.000 enhancement.
NOTE Confidence: 0.9741

00:10:05.380 --> 00:10:07.860 Upon interrogation and longitudinal access,
NOTE Confidence: 0.9741

00:10:07.860 --> 00:10:08.905 you again see a nicely
NOTE Confidence: 0.9741

00:10:08.905 --> 00:10:11.065 filled bladder with a normal
NOTE Confidence: 0.9741

00:10:11.065 --> 00:10:12.125 appearing uterus
NOTE Confidence: 0.9993409

00:10:12.505 --> 00:10:13.325 behind it.
NOTE Confidence: 0.9289208

00:10:15.545 --> 00:10:17.545 You obtain your measurements in
NOTE Confidence: 0.9289208

00:10:17.545 --> 00:10:18.045 transverse.
NOTE Confidence: 0.9976928

00:10:18.585 --> 00:10:20.105 The bladder height is about
NOTE Confidence: 0.9976928

00:10:20.105 --> 00:10:21.565 seven point three centimeters.
NOTE Confidence: 0.9926495

00:10:22.240 --> 00:10:23.680 The bladder width is about
NOTE Confidence: 0.9926495

00:10:23.680 --> 00:10:25.460 nine point seven centimeters.
NOTE Confidence: 0.9925904

00:10:26.160 --> 00:10:27.059 And in longitudinal,

NOTE Confidence: 0.9956687
00:10:27.440 --> 00:10:28.720 your bladder length is about
NOTE Confidence: 0.9956687
00:10:28.720 --> 00:10:30.420 eight point five centimeters,
NOTE Confidence: 0.9725459
00:10:30.960 --> 00:10:32.320 which gives you a total
NOTE Confidence: 0.9725459
00:10:32.320 --> 00:10:34.000 bladder volume of about three
NOTE Confidence: 0.9725459
00:10:34.000 --> 00:10:35.860 hundred and fourteen cc's.
NOTE Confidence: 0.9968712
00:10:36.695 --> 00:10:38.554 This is incredibly useful information
NOTE Confidence: 0.9968712
00:10:38.695 --> 00:10:40.054 as you would expect bladder
NOTE Confidence: 0.9968712
00:10:40.054 --> 00:10:41.735 capacity in an adult to
NOTE Confidence: 0.9968712
00:10:41.735 --> 00:10:43.434 be about five hundred cc's.
NOTE Confidence: 0.9436963
00:10:45.815 --> 00:10:47.175 You determined she should be
NOTE Confidence: 0.9436963
00:10:47.175 --> 00:10:49.035 ready for radiology ultrasound
NOTE Confidence: 0.99013233
00:10:49.415 --> 00:10:50.315 without delay,
NOTE Confidence: 0.9990125
00:10:50.910 --> 00:10:52.269 but you also have a
NOTE Confidence: 0.9990125
00:10:52.269 --> 00:10:54.029 bonus finding on your bedside
NOTE Confidence: 0.9990125
00:10:54.029 --> 00:10:56.110 scan. When you gently angle
NOTE Confidence: 0.9990125

00:10:56.110 --> 00:10:58.190 her probe towards her right
NOTE Confidence: 0.9990125

00:10:58.190 --> 00:10:58.690 side
NOTE Confidence: 0.9740673

00:10:59.149 --> 00:11:00.510 using her bladder as an
NOTE Confidence: 0.9740673

00:11:00.510 --> 00:11:02.684 acoustic window, you actually can
NOTE Confidence: 0.9740673

00:11:02.765 --> 00:11:03.965 see her ovary on the
NOTE Confidence: 0.9740673

00:11:03.965 --> 00:11:05.904 right. It appears morphologically
NOTE Confidence: 0.9733119

00:11:06.285 --> 00:11:08.705 normal in its size, shape,
NOTE Confidence: 0.9733119

00:11:08.765 --> 00:11:10.545 and appearance of small follicular
NOTE Confidence: 0.9733119

00:11:10.684 --> 00:11:12.925 structures within. These findings make
NOTE Confidence: 0.9733119

00:11:12.925 --> 00:11:14.765 it incredibly unlikely that your
NOTE Confidence: 0.9733119

00:11:14.765 --> 00:11:17.280 patient has acute right sided
NOTE Confidence: 0.9733119

00:11:17.340 --> 00:11:18.480 ovarian torsion.
NOTE Confidence: 0.9911013

00:11:20.700 --> 00:11:21.660 On the flip side, you
NOTE Confidence: 0.9911013

00:11:21.660 --> 00:11:22.940 may have come across a
NOTE Confidence: 0.9911013

00:11:22.940 --> 00:11:24.540 case where something just doesn't
NOTE Confidence: 0.9911013

00:11:24.540 --> 00:11:26.620 look quite right deep in

NOTE Confidence: 0.9911013
00:11:26.620 --> 00:11:27.280 the pelvis.
NOTE Confidence: 0.92021847
00:11:28.059 --> 00:11:29.834 In this patient who who
NOTE Confidence: 0.92021847
00:11:29.834 --> 00:11:31.035 there were also some concerns
NOTE Confidence: 0.92021847
00:11:31.035 --> 00:11:32.255 for ovarian torsion,
NOTE Confidence: 0.9874637
00:11:32.635 --> 00:11:33.855 you can see a large
NOTE Confidence: 0.9874637
00:11:33.915 --> 00:11:36.735 ovoid lesion with some follicular
NOTE Confidence: 0.9874637
00:11:37.035 --> 00:11:37.535 architecture,
NOTE Confidence: 0.9993853
00:11:38.395 --> 00:11:40.154 which is present behind the
NOTE Confidence: 0.9993853
00:11:40.154 --> 00:11:41.355 uterus and pushing up on
NOTE Confidence: 0.9993853
00:11:41.355 --> 00:11:42.420 the uterine fundus.
NOTE Confidence: 0.99515814
00:11:42.820 --> 00:11:44.279 The bladder here is decompressed,
NOTE Confidence: 0.99515814
00:11:44.500 --> 00:11:46.579 but even though diagnostics for
NOTE Confidence: 0.99515814
00:11:46.579 --> 00:11:48.420 ovarian torsion by ultrasound are
NOTE Confidence: 0.99515814
00:11:48.420 --> 00:11:50.839 best left for our radiology
NOTE Confidence: 0.99515814
00:11:51.059 --> 00:11:51.559 experts
NOTE Confidence: 0.9876839

00:11:51.940 --> 00:11:52.679 to confirm,
NOTE Confidence: 0.97770774

00:11:53.459 --> 00:11:55.779 any abnormal screening findings such
NOTE Confidence: 0.97770774

00:11:55.779 --> 00:11:57.405 as this one should heighten
NOTE Confidence: 0.97770774

00:11:57.705 --> 00:11:58.845 the level of urgency
NOTE Confidence: 0.99596745

00:11:59.785 --> 00:12:01.485 and should also help expedite
NOTE Confidence: 0.99596745

00:12:01.545 --> 00:12:02.825 the time it takes to
NOTE Confidence: 0.99596745

00:12:02.825 --> 00:12:04.505 get your patient to her
NOTE Confidence: 0.99596745

00:12:04.505 --> 00:12:05.005 definitive
NOTE Confidence: 0.9991981

00:12:05.385 --> 00:12:06.365 imaging study.
NOTE Confidence: 0.98949045

00:12:06.985 --> 00:12:08.025 Now back to the case
NOTE Confidence: 0.98949045

00:12:08.025 --> 00:12:09.225 of the patient with acute
NOTE Confidence: 0.98949045

00:12:09.225 --> 00:12:10.559 right lower quadrant pain,
NOTE Confidence: 0.9597564

00:12:11.040 --> 00:12:12.960 your pocus helped determine the
NOTE Confidence: 0.9597564

00:12:12.960 --> 00:12:13.460 suitability
NOTE Confidence: 0.99796134

00:12:13.840 --> 00:12:15.040 of getting her over to
NOTE Confidence: 0.99796134

00:12:15.040 --> 00:12:15.540 radiology

NOTE Confidence: 0.98350155

00:12:15.920 --> 00:12:17.860 to have their formal diagnostic

NOTE Confidence: 0.98350155

00:12:17.920 --> 00:12:20.160 testing done. At radiology, a

NOTE Confidence: 0.98350155

00:12:20.160 --> 00:12:21.679 normal right sided ovary was

NOTE Confidence: 0.98350155

00:12:21.679 --> 00:12:22.580 again visualized.

NOTE Confidence: 0.9968467

00:12:23.945 --> 00:12:25.725 However, she had findings compatible

NOTE Confidence: 0.9968467

00:12:25.785 --> 00:12:27.005 with acute appendicitis.

NOTE Confidence: 0.9839356

00:12:27.785 --> 00:12:29.145 Luckily, you had already made

NOTE Confidence: 0.9839356

00:12:29.145 --> 00:12:30.525 the right call to obtain

NOTE Confidence: 0.9839356

00:12:30.585 --> 00:12:33.385 lab intravenous access, made her

NOTE Confidence: 0.9839356

00:12:33.385 --> 00:12:35.625 NPO, and started a normal

NOTE Confidence: 0.9839356

00:12:35.625 --> 00:12:36.684 saline bolus.

NOTE Confidence: 0.9909093

00:12:39.350 --> 00:12:40.870 Case three is a post

NOTE Confidence: 0.9909093

00:12:40.870 --> 00:12:43.130 void residual bladder volume measurement.

NOTE Confidence: 0.99365807

00:12:43.910 --> 00:12:44.870 In this case, a ten

NOTE Confidence: 0.99365807

00:12:44.870 --> 00:12:46.790 year old circumcised male presents

NOTE Confidence: 0.99365807

00:12:46.790 --> 00:12:48.710 with mild idiopathic swelling to

NOTE Confidence: 0.99365807

00:12:48.710 --> 00:12:49.450 his penis

NOTE Confidence: 0.97360593

00:12:49.910 --> 00:12:51.350 and had an otherwise normal

NOTE Confidence: 0.97360593

00:12:51.350 --> 00:12:51.850 genitourinary

NOTE Confidence: 0.9997152

00:12:52.390 --> 00:12:52.890 exam.

NOTE Confidence: 0.99345064

00:12:53.565 --> 00:12:55.005 On review of symptoms, he

NOTE Confidence: 0.99345064

00:12:55.005 --> 00:12:55.965 says that he wakes up

NOTE Confidence: 0.99345064

00:12:55.965 --> 00:12:56.945 to go to the bathroom

NOTE Confidence: 0.99345064

00:12:57.005 --> 00:12:58.925 several times at night. And

NOTE Confidence: 0.99345064

00:12:58.925 --> 00:13:00.045 for over a year, the

NOTE Confidence: 0.99345064

00:13:00.045 --> 00:13:01.405 teachers had reported that he

NOTE Confidence: 0.99345064

00:13:01.405 --> 00:13:03.005 goes to the bathroom several

NOTE Confidence: 0.99345064

00:13:03.005 --> 00:13:04.045 times a day while he's

NOTE Confidence: 0.99345064

00:13:04.045 --> 00:13:04.785 at school.

NOTE Confidence: 0.99857026

00:13:05.500 --> 00:13:06.300 Your plan is to do

NOTE Confidence: 0.99857026

00:13:06.300 --> 00:13:07.500 a dose of Benadryl for

NOTE Confidence: 0.99857026
00:13:07.500 --> 00:13:07.900 the,
NOTE Confidence: 0.9772143
00:13:08.460 --> 00:13:09.820 mild swelling and obtain a
NOTE Confidence: 0.9772143
00:13:09.820 --> 00:13:11.740 urinalysis to screen for potential
NOTE Confidence: 0.9772143
00:13:11.740 --> 00:13:13.200 causes of these symptoms.
NOTE Confidence: 0.9769382
00:13:13.740 --> 00:13:14.860 However, he is only able
NOTE Confidence: 0.9769382
00:13:14.860 --> 00:13:15.980 to void a small amount
NOTE Confidence: 0.9769382
00:13:15.980 --> 00:13:16.960 with great difficulty.
NOTE Confidence: 0.9690482
00:13:22.415 --> 00:13:24.015 You record his bladder in
NOTE Confidence: 0.9690482
00:13:24.015 --> 00:13:26.415 transverse orientation and slowly fan
NOTE Confidence: 0.9690482
00:13:26.415 --> 00:13:27.475 all the way through.
NOTE Confidence: 0.99212134
00:13:32.655 --> 00:13:34.150 You then record his bladder
NOTE Confidence: 0.99212134
00:13:34.150 --> 00:13:35.690 in longitudinal orientation.
NOTE Confidence: 0.9724851
00:13:37.510 --> 00:13:38.890 When you obtain your measurements,
NOTE Confidence: 0.9724851
00:13:39.110 --> 00:13:41.590 his bladder volume is three
NOTE Confidence: 0.9724851
00:13:41.590 --> 00:13:43.050 hundred and twenty three cc's
NOTE Confidence: 0.97669506

00:13:43.429 --> 00:13:43.929 calculated,
NOTE Confidence: 0.9991628

00:13:44.870 --> 00:13:46.090 which is an abnormal
NOTE Confidence: 0.8449531

00:13:46.975 --> 00:13:48.355 residual, which signifies
NOTE Confidence: 0.9993198

00:13:48.815 --> 00:13:49.315 incomplete
NOTE Confidence: 0.9883324

00:13:49.855 --> 00:13:50.995 bladder emptying.
NOTE Confidence: 0.9905901

00:13:53.615 --> 00:13:55.155 Based on your POCUS results,
NOTE Confidence: 0.9905901

00:13:55.215 --> 00:13:56.735 you have the patient go
NOTE Confidence: 0.9905901

00:13:56.735 --> 00:13:58.015 to radiology to have a
NOTE Confidence: 0.9905901

00:13:58.015 --> 00:14:00.580 renal ultrasound done where hydronephrosis
NOTE Confidence: 0.94368964

00:14:01.040 --> 00:14:02.740 is not found, but incomplete
NOTE Confidence: 0.94368964

00:14:02.880 --> 00:14:04.740 bladder emptying again is confirmed.
NOTE Confidence: 0.9937582

00:14:05.440 --> 00:14:06.960 Your urinalysis did not show
NOTE Confidence: 0.9937582

00:14:06.960 --> 00:14:08.660 any signs of glucosuria
NOTE Confidence: 0.99867654

00:14:09.040 --> 00:14:10.340 or signs of infection.
NOTE Confidence: 0.9473486

00:14:10.720 --> 00:14:12.480 Putting everything together, you recommend
NOTE Confidence: 0.9473486

00:14:12.480 --> 00:14:13.620 a trial of MiraLAX

NOTE Confidence: 0.9991362
00:14:14.015 --> 00:14:14.915 with an outpatient
NOTE Confidence: 0.9939781
00:14:15.215 --> 00:14:17.135 referral to urology should symptoms
NOTE Confidence: 0.9939781
00:14:17.135 --> 00:14:17.635 persist.
NOTE Confidence: 0.9908283
00:14:18.095 --> 00:14:19.635 You also review the potential
NOTE Confidence: 0.9908283
00:14:19.775 --> 00:14:20.835 for urine retention
NOTE Confidence: 0.90397733
00:14:21.695 --> 00:14:24.175 secondary to antihistamine medications like
NOTE Confidence: 0.90397733
00:14:24.175 --> 00:14:24.675 Benadryl.
NOTE Confidence: 0.9991641
00:14:26.990 --> 00:14:28.990 A potential pitfall when scanning
NOTE Confidence: 0.9991641
00:14:28.990 --> 00:14:30.190 for the bladder is that
NOTE Confidence: 0.9991641
00:14:30.190 --> 00:14:31.630 your probe is actually not
NOTE Confidence: 0.9991641
00:14:31.630 --> 00:14:32.370 low enough.
NOTE Confidence: 0.97361207
00:14:32.750 --> 00:14:34.030 Note the split screens of
NOTE Confidence: 0.97361207
00:14:34.030 --> 00:14:35.470 the same patient during a
NOTE Confidence: 0.97361207
00:14:35.470 --> 00:14:36.750 scan done around the same
NOTE Confidence: 0.97361207
00:14:36.750 --> 00:14:37.250 time.
NOTE Confidence: 0.98061395

00:14:37.870 --> 00:14:39.070 On the top row, the
NOTE Confidence: 0.98061395

00:14:39.070 --> 00:14:40.670 curvilinear probe is placed in
NOTE Confidence: 0.98061395

00:14:40.670 --> 00:14:41.325 the suprapubic
NOTE Confidence: 0.9972218

00:14:41.725 --> 00:14:43.645 area with the probe slightly
NOTE Confidence: 0.9972218

00:14:43.645 --> 00:14:45.505 angled towards the umbilicus.
NOTE Confidence: 0.9973126

00:14:46.285 --> 00:14:47.725 This results in only bowel
NOTE Confidence: 0.9973126

00:14:47.725 --> 00:14:49.165 to be present and seen
NOTE Confidence: 0.9973126

00:14:49.165 --> 00:14:49.985 on the monitor.
NOTE Confidence: 0.9743492

00:14:50.605 --> 00:14:51.565 On the second row of
NOTE Confidence: 0.9743492

00:14:51.565 --> 00:14:53.885 images, the curvilinear probe has
NOTE Confidence: 0.9743492

00:14:53.885 --> 00:14:55.480 been placed over the pubic
NOTE Confidence: 0.9743492

00:14:55.480 --> 00:14:57.560 symphysis and slightly angled in
NOTE Confidence: 0.9743492

00:14:57.560 --> 00:14:58.940 a called out direction.
NOTE Confidence: 0.9996771

00:14:59.640 --> 00:15:00.760 At this point, the bladder
NOTE Confidence: 0.9996771

00:15:00.760 --> 00:15:01.640 can be seen to come
NOTE Confidence: 0.9996771

00:15:01.640 --> 00:15:03.500 into view on the screen.

NOTE Confidence: 0.9932249
00:15:05.959 --> 00:15:07.560 The other important pitfall to
NOTE Confidence: 0.9932249
00:15:07.560 --> 00:15:08.920 be aware of is that
NOTE Confidence: 0.9932249
00:15:08.920 --> 00:15:10.805 large cystic structures in the
NOTE Confidence: 0.9932249
00:15:10.805 --> 00:15:12.884 pelvis may mimic the appearance
NOTE Confidence: 0.9932249
00:15:12.884 --> 00:15:13.704 of a bladder.
NOTE Confidence: 0.9644843
00:15:14.404 --> 00:15:16.245 I would pay particular careful
NOTE Confidence: 0.9644843
00:15:16.245 --> 00:15:18.565 attention in patients who present
NOTE Confidence: 0.9644843
00:15:18.565 --> 00:15:19.925 with urine retention as a
NOTE Confidence: 0.9644843
00:15:19.925 --> 00:15:21.365 chief complaint. Here we see
NOTE Confidence: 0.9644843
00:15:21.365 --> 00:15:22.245 a ten year old girl
NOTE Confidence: 0.9644843
00:15:22.245 --> 00:15:23.764 who complained of nuance and
NOTE Confidence: 0.9644843
00:15:23.764 --> 00:15:24.264 constipation
NOTE Confidence: 0.901547
00:15:24.565 --> 00:15:26.230 and a sensation of incomplete
NOTE Confidence: 0.901547
00:15:26.529 --> 00:15:28.930 bladder emptying. Ultrasound images by
NOTE Confidence: 0.901547
00:15:28.930 --> 00:15:30.149 point of care and radiology
NOTE Confidence: 0.9891975

00:15:30.529 --> 00:15:32.690 thought the cystic structure being
NOTE Confidence: 0.9891975

00:15:32.690 --> 00:15:34.149 measured was her bladder.
NOTE Confidence: 0.99759203

00:15:34.610 --> 00:15:36.630 However, her bladder was completely
NOTE Confidence: 0.99759203

00:15:36.690 --> 00:15:38.529 decompressed and empty during the
NOTE Confidence: 0.99759203

00:15:38.529 --> 00:15:40.230 time of the ultrasound scans.
NOTE Confidence: 0.99182767

00:15:41.285 --> 00:15:42.325 What was thought to have
NOTE Confidence: 0.99182767

00:15:42.325 --> 00:15:43.385 been a ureterocele
NOTE Confidence: 0.9925544

00:15:44.085 --> 00:15:45.765 was actually part of a
NOTE Confidence: 0.9925544

00:15:45.765 --> 00:15:47.305 mature cystic teratoma,
NOTE Confidence: 0.9794238

00:15:47.845 --> 00:15:49.925 which was diagnosed by pelvic
NOTE Confidence: 0.9794238

00:15:49.925 --> 00:15:50.425 MRI.
NOTE Confidence: 0.99960613

00:15:50.885 --> 00:15:51.605 At the time of the
NOTE Confidence: 0.99960613

00:15:51.605 --> 00:15:53.605 MRI study, the bladder could
NOTE Confidence: 0.99960613

00:15:53.605 --> 00:15:54.105 be
NOTE Confidence: 0.97339904

00:15:54.565 --> 00:15:55.385 better visualized,
NOTE Confidence: 0.9992753

00:15:55.899 --> 00:15:57.580 and the mass effect causing

NOTE Confidence: 0.9992753
00:15:57.580 --> 00:15:58.560 bladder compression
NOTE Confidence: 0.99916
00:15:59.180 --> 00:16:00.880 was more clearly seen.
NOTE Confidence: 0.9652556
00:16:03.820 --> 00:16:05.580 In summary, we have reviewed
NOTE Confidence: 0.9652556
00:16:05.580 --> 00:16:07.279 some cases where focus
NOTE Confidence: 0.97396785
00:16:07.580 --> 00:16:09.005 was used as a tool
NOTE Confidence: 0.97396785
00:16:09.005 --> 00:16:11.085 to expedite patient care and
NOTE Confidence: 0.97396785
00:16:11.085 --> 00:16:12.385 help to guide procedures.
NOTE Confidence: 0.9921489
00:16:13.405 --> 00:16:14.925 BladderScan by Pocus for the
NOTE Confidence: 0.9921489
00:16:14.925 --> 00:16:17.165 assessment and interpretation of volume
NOTE Confidence: 0.9921489
00:16:17.165 --> 00:16:19.005 measurements is an important skill
NOTE Confidence: 0.9921489
00:16:19.005 --> 00:16:20.400 for PEM physicians to learn.
NOTE Confidence: 0.97585094
00:16:21.600 --> 00:16:23.360 As always with Pocus, if
NOTE Confidence: 0.97585094
00:16:23.360 --> 00:16:24.740 you see something unexpected
NOTE Confidence: 0.9987176
00:16:25.120 --> 00:16:26.480 that doesn't fall into the
NOTE Confidence: 0.9987176
00:16:26.480 --> 00:16:28.900 typical pattern recognition appearance,
NOTE Confidence: 0.9994347

00:16:29.360 --> 00:16:30.880 please do not hesitate to

NOTE Confidence: 0.9994347

00:16:30.880 --> 00:16:31.860 ask for help.