

WEBVTT

NOTE duration: "00:57:24.224"

NOTE Confidence: 0.98188424

00:00:13.365 --> 00:00:15.224 And we're gonna be joined

NOTE Confidence: 0.98188424

00:00:15.365 --> 00:00:15.865 by,

NOTE Confidence: 0.8425629

00:00:16.965 --> 00:00:18.505 doctor Michelle Bernora,

NOTE Confidence: 0.9464388

00:00:18.885 --> 00:00:20.585 who is assistant professor

NOTE Confidence: 0.97110236

00:00:21.044 --> 00:00:23.445 of medicine at, Einstein School

NOTE Confidence: 0.97110236

00:00:23.445 --> 00:00:24.025 of Medicine,

NOTE Confidence: 0.96002847

00:00:24.560 --> 00:00:26.480 and doctor Melissa Weimer, who's

NOTE Confidence: 0.96002847

00:00:26.480 --> 00:00:28.180 an associate professor of medicine

NOTE Confidence: 0.91481555

00:00:28.640 --> 00:00:29.840 at Yale School of Medicine

NOTE Confidence: 0.91481555

00:00:29.840 --> 00:00:31.119 and also director of the

NOTE Confidence: 0.91481555

00:00:31.119 --> 00:00:33.300 Yale Addiction Medicine Consult Service.

NOTE Confidence: 0.9955318

00:00:34.079 --> 00:00:34.579 And,

NOTE Confidence: 0.98242515

00:00:35.120 --> 00:00:36.100 this work is,

NOTE Confidence: 0.99758023

00:00:36.800 --> 00:00:38.159 they're gonna be presenting their

NOTE Confidence: 0.99758023

00:00:38.159 --> 00:00:38.659 work
NOTE Confidence: 0.97073084
00:00:39.120 --> 00:00:40.815 that stems from a recently
NOTE Confidence: 0.97073084
00:00:40.815 --> 00:00:41.315 published,
NOTE Confidence: 0.99907386
00:00:41.775 --> 00:00:42.275 paper
NOTE Confidence: 0.9683582
00:00:42.735 --> 00:00:44.095 that I will share briefly
NOTE Confidence: 0.9683582
00:00:44.095 --> 00:00:44.915 in the chat.
NOTE Confidence: 0.9416158
00:00:45.935 --> 00:00:47.215 But the title of which
NOTE Confidence: 0.9416158
00:00:47.215 --> 00:00:49.535 is research gaps and acute
NOTE Confidence: 0.9416158
00:00:49.535 --> 00:00:51.295 pain management in people with
NOTE Confidence: 0.9416158
00:00:51.295 --> 00:00:52.435 opioid use disorder,
NOTE Confidence: 0.9444767
00:00:53.135 --> 00:00:54.995 results from a systematic review.
NOTE Confidence: 0.98918825
00:00:56.070 --> 00:00:56.570 And,
NOTE Confidence: 0.9742909
00:00:57.350 --> 00:00:58.790 I'm really pleased at the
NOTE Confidence: 0.9742909
00:00:58.790 --> 00:00:59.910 way this has turned out.
NOTE Confidence: 0.9742909
00:00:59.910 --> 00:01:00.710 And I think one of
NOTE Confidence: 0.9742909
00:01:00.710 --> 00:01:01.210 the

NOTE Confidence: 0.99095345
00:01:01.510 --> 00:01:02.489 take home messages,
NOTE Confidence: 0.97628325
00:01:02.790 --> 00:01:04.790 especially for all the junior
NOTE Confidence: 0.97628325
00:01:04.790 --> 00:01:06.970 investigators on on today is,
NOTE Confidence: 0.9905457
00:01:07.990 --> 00:01:09.510 the incredible amount of work
NOTE Confidence: 0.9905457
00:01:09.510 --> 00:01:10.550 there is for you all
NOTE Confidence: 0.9905457
00:01:10.550 --> 00:01:11.745 to do over the rest
NOTE Confidence: 0.9905457
00:01:11.745 --> 00:01:12.725 of your career.
NOTE Confidence: 0.93700314
00:01:14.385 --> 00:01:15.584 One of the things I
NOTE Confidence: 0.93700314
00:01:15.584 --> 00:01:16.725 like to highlight
NOTE Confidence: 0.93274665
00:01:17.185 --> 00:01:17.665 for,
NOTE Confidence: 0.9961248
00:01:18.145 --> 00:01:19.685 junior faculty is
NOTE Confidence: 0.99824446
00:01:20.305 --> 00:01:22.325 how beneficial doing a systematic
NOTE Confidence: 0.99824446
00:01:22.465 --> 00:01:24.084 review early on can be
NOTE Confidence: 0.77690053
00:01:24.465 --> 00:01:24.965 because,
NOTE Confidence: 0.9501651
00:01:25.425 --> 00:01:25.925 Michelle,
NOTE Confidence: 0.9685376

00:01:26.899 --> 00:01:28.179 at this point is now
NOTE Confidence: 0.9685376

00:01:28.179 --> 00:01:29.159 the world's expert,
NOTE Confidence: 0.95173407

00:01:29.619 --> 00:01:30.899 in this topic because she
NOTE Confidence: 0.95173407

00:01:30.899 --> 00:01:32.280 knows all of the literature.
NOTE Confidence: 0.99413234

00:01:33.380 --> 00:01:35.060 And, you know, that happened
NOTE Confidence: 0.99413234

00:01:35.060 --> 00:01:36.600 within a year or two.
NOTE Confidence: 0.99413234

00:01:36.740 --> 00:01:37.380 And then,
NOTE Confidence: 0.99484885

00:01:37.780 --> 00:01:38.600 she's also,
NOTE Confidence: 0.985266

00:01:39.085 --> 00:01:40.925 you know, well aware of
NOTE Confidence: 0.985266

00:01:40.925 --> 00:01:42.444 what are the unanswered questions
NOTE Confidence: 0.985266

00:01:42.444 --> 00:01:43.105 in the field.
NOTE Confidence: 0.998469

00:01:43.645 --> 00:01:45.085 And, she's got the rest
NOTE Confidence: 0.998469

00:01:45.085 --> 00:01:45.665 of her
NOTE Confidence: 0.70659816

00:01:47.485 --> 00:01:47.985 career,
NOTE Confidence: 0.6952543

00:01:48.445 --> 00:01:49.585 sort of in her research,
NOTE Confidence: 0.99554664

00:01:49.965 --> 00:01:51.025 mapped out. So

NOTE Confidence: 0.99267495
00:01:52.310 --> 00:01:53.270 think about it as you
NOTE Confidence: 0.99267495
00:01:53.270 --> 00:01:54.710 think about ways when you
NOTE Confidence: 0.99267495
00:01:54.710 --> 00:01:55.910 start your career. But,
NOTE Confidence: 0.9254193
00:01:57.110 --> 00:01:58.410 without saying more,
NOTE Confidence: 0.9969699
00:01:58.950 --> 00:02:00.870 I will introduce both Michelle
NOTE Confidence: 0.9969699
00:02:00.870 --> 00:02:02.250 and Melissa. Thank you.
NOTE Confidence: 0.9956155
00:02:04.885 --> 00:02:05.865 Thanks, David.
NOTE Confidence: 0.98885995
00:02:06.405 --> 00:02:07.525 I'm just gonna say a
NOTE Confidence: 0.98885995
00:02:07.525 --> 00:02:08.565 few words, and then I'm
NOTE Confidence: 0.98885995
00:02:08.565 --> 00:02:09.764 gonna really hand it over
NOTE Confidence: 0.98885995
00:02:09.764 --> 00:02:11.605 to Michelle who's gonna lead
NOTE Confidence: 0.98885995
00:02:11.605 --> 00:02:13.305 us through the review.
NOTE Confidence: 0.99726874
00:02:14.485 --> 00:02:15.605 I will also say that
NOTE Confidence: 0.99726874
00:02:15.605 --> 00:02:17.925 systematic reviews are not always
NOTE Confidence: 0.99726874
00:02:17.925 --> 00:02:19.320 for the faint of heart.
NOTE Confidence: 0.7642604

00:02:19.720 --> 00:02:20.220 This,
NOTE Confidence: 0.8166025
00:02:22.040 --> 00:02:22.540 topic,
NOTE Confidence: 0.92694014
00:02:25.480 --> 00:02:26.780 idea started about,
NOTE Confidence: 0.9901673
00:02:27.880 --> 00:02:30.040 I'm embarrassed to say, but,
NOTE Confidence: 0.9901673
00:02:30.360 --> 00:02:31.340 probably about
NOTE Confidence: 0.9770249
00:02:32.055 --> 00:02:33.014 four and a half, five
NOTE Confidence: 0.9770249
00:02:33.014 --> 00:02:33.755 years ago.
NOTE Confidence: 0.8844664
00:02:35.175 --> 00:02:36.315 And it took me,
NOTE Confidence: 0.99694955
00:02:36.935 --> 00:02:38.135 a lot of time to
NOTE Confidence: 0.99694955
00:02:38.135 --> 00:02:38.875 figure out
NOTE Confidence: 0.9734599
00:02:39.495 --> 00:02:40.375 how to put it all
NOTE Confidence: 0.9734599
00:02:40.375 --> 00:02:41.095 together and,
NOTE Confidence: 0.9993337
00:02:41.735 --> 00:02:43.675 create the right team to
NOTE Confidence: 0.9993337
00:02:43.815 --> 00:02:44.875 work on this
NOTE Confidence: 0.9914956
00:02:45.680 --> 00:02:47.139 immensely important topic.
NOTE Confidence: 0.9620846
00:02:48.639 --> 00:02:50.000 So sometimes you have brilliant

NOTE Confidence: 0.9620846
00:02:50.000 --> 00:02:51.780 ideas, and it takes time
NOTE Confidence: 0.99807507
00:02:52.320 --> 00:02:53.440 to get the right people
NOTE Confidence: 0.99807507
00:02:53.440 --> 00:02:54.419 together. So,
NOTE Confidence: 0.9919901
00:02:55.440 --> 00:02:55.940 thankfully,
NOTE Confidence: 0.9910982
00:02:56.320 --> 00:02:56.820 Michelle
NOTE Confidence: 0.97651976
00:02:57.200 --> 00:02:58.960 was interested in taking this
NOTE Confidence: 0.97651976
00:02:58.960 --> 00:03:00.000 on and helping to lead
NOTE Confidence: 0.97651976
00:03:00.000 --> 00:03:00.500 it,
NOTE Confidence: 0.9673698
00:03:01.665 --> 00:03:03.445 And I think the product
NOTE Confidence: 0.9673698
00:03:03.505 --> 00:03:04.005 was,
NOTE Confidence: 0.9148031
00:03:04.625 --> 00:03:05.125 a
NOTE Confidence: 0.7905862
00:03:06.544 --> 00:03:08.005 wonderful yet very,
NOTE Confidence: 0.9955184
00:03:09.745 --> 00:03:11.205 time intensive process.
NOTE Confidence: 0.89635676
00:03:12.705 --> 00:03:13.650 So, anyway,
NOTE Confidence: 0.9883053
00:03:14.290 --> 00:03:15.970 excited for her to share
NOTE Confidence: 0.9883053

00:03:15.970 --> 00:03:17.810 our findings. And as David
NOTE Confidence: 0.9883053

00:03:17.810 --> 00:03:18.790 said, there's
NOTE Confidence: 0.9856331

00:03:19.569 --> 00:03:21.909 literally an open field here.
NOTE Confidence: 0.97572356

00:03:22.290 --> 00:03:24.129 You could essentially think of
NOTE Confidence: 0.97572356

00:03:24.129 --> 00:03:25.510 any potential question,
NOTE Confidence: 0.93893176

00:03:26.614 --> 00:03:27.894 and this topic in the
NOTE Confidence: 0.93893176

00:03:27.894 --> 00:03:29.275 hospital, out of the hospital,
NOTE Confidence: 0.9613134

00:03:30.294 --> 00:03:32.155 in so many different settings,
NOTE Confidence: 0.9613134

00:03:32.215 --> 00:03:32.715 and
NOTE Confidence: 0.9912966

00:03:33.254 --> 00:03:34.795 there's just so much potential
NOTE Confidence: 0.9912966

00:03:34.855 --> 00:03:36.135 research that can be done.
NOTE Confidence: 0.9912966

00:03:36.135 --> 00:03:36.635 So,
NOTE Confidence: 0.9975715

00:03:37.254 --> 00:03:38.454 excited to share that with
NOTE Confidence: 0.9975715

00:03:38.454 --> 00:03:39.114 you today.
NOTE Confidence: 0.9974946

00:03:42.350 --> 00:03:43.170 Thanks, Melissa.
NOTE Confidence: 0.939286

00:03:44.990 --> 00:03:47.069 Yeah. As as David, mentioned,

NOTE Confidence: 0.939286
00:03:47.069 --> 00:03:48.050 my name is Michelle.
NOTE Confidence: 0.9995319
00:03:48.670 --> 00:03:49.790 It's a pleasure to be
NOTE Confidence: 0.9995319
00:03:49.790 --> 00:03:50.290 here.
NOTE Confidence: 0.98569846
00:03:51.069 --> 00:03:52.190 I'm gonna share my slides
NOTE Confidence: 0.98569846
00:03:52.190 --> 00:03:53.230 in just a second. But
NOTE Confidence: 0.98569846
00:03:53.230 --> 00:03:54.190 before I start, I do
NOTE Confidence: 0.98569846
00:03:54.190 --> 00:03:56.535 wanna encourage people. As Melissa
NOTE Confidence: 0.98569846
00:03:56.535 --> 00:03:58.535 said, there are more gaps
NOTE Confidence: 0.98569846
00:03:58.535 --> 00:04:00.055 than knowledge in this research
NOTE Confidence: 0.98569846
00:04:00.055 --> 00:04:01.415 area, and so please don't
NOTE Confidence: 0.98569846
00:04:01.415 --> 00:04:01.915 hesitate.
NOTE Confidence: 0.9931903
00:04:02.695 --> 00:04:03.975 We've tried to make this
NOTE Confidence: 0.9931903
00:04:03.975 --> 00:04:05.655 kind of as tangible and
NOTE Confidence: 0.9931903
00:04:05.655 --> 00:04:06.935 useful of a talk for
NOTE Confidence: 0.9931903
00:04:06.935 --> 00:04:07.335 folks.
NOTE Confidence: 0.99528015

00:04:08.215 --> 00:04:09.815 But if anything comes up
NOTE Confidence: 0.99528015

00:04:09.815 --> 00:04:10.795 for you as,
NOTE Confidence: 0.9968749

00:04:11.335 --> 00:04:12.829 as we're speaking, just feel
NOTE Confidence: 0.9968749

00:04:12.829 --> 00:04:14.510 free to interject or drop
NOTE Confidence: 0.9968749

00:04:14.510 --> 00:04:15.230 it in the chat or
NOTE Confidence: 0.9968749

00:04:15.230 --> 00:04:15.730 whatnot,
NOTE Confidence: 0.97148895

00:04:16.110 --> 00:04:17.229 rather than waiting till the
NOTE Confidence: 0.97148895

00:04:17.229 --> 00:04:17.729 end.
NOTE Confidence: 0.9412521

00:04:18.509 --> 00:04:19.810 I think that that,
NOTE Confidence: 0.9983854

00:04:20.270 --> 00:04:22.370 yeah, that would be great.
NOTE Confidence: 0.9755196

00:04:23.870 --> 00:04:24.830 So let me just share
NOTE Confidence: 0.9755196

00:04:24.830 --> 00:04:26.350 my slides. Bear with me
NOTE Confidence: 0.9755196

00:04:26.350 --> 00:04:27.089 one second.
NOTE Confidence: 0.95135874

00:04:36.375 --> 00:04:37.175 I think I just have
NOTE Confidence: 0.95135874

00:04:37.175 --> 00:04:37.835 to switch.
NOTE Confidence: 0.86433864

00:04:44.589 --> 00:04:45.089 Okay.

NOTE Confidence: 0.9826843

00:04:46.029 --> 00:04:46.830 If I could just have

NOTE Confidence: 0.9826843

00:04:46.830 --> 00:04:48.110 a thumbs up or down,

NOTE Confidence: 0.9826843

00:04:48.110 --> 00:04:49.229 are you do you just

NOTE Confidence: 0.9826843

00:04:49.229 --> 00:04:50.690 see my slide full screen?

NOTE Confidence: 0.99672663

00:04:51.069 --> 00:04:53.330 Perfect. Okay. Great. Alright.

NOTE Confidence: 0.9800254

00:04:55.229 --> 00:04:56.685 So right. Right, so research

NOTE Confidence: 0.9800254

00:04:56.685 --> 00:04:58.385 gaps in acute pain management,

NOTE Confidence: 0.9950348

00:04:58.765 --> 00:05:00.045 in people with opioid use

NOTE Confidence: 0.9950348

00:05:00.045 --> 00:05:01.825 disorder results from a systematic

NOTE Confidence: 0.9950348

00:05:01.885 --> 00:05:02.385 review.

NOTE Confidence: 0.9770062

00:05:04.605 --> 00:05:06.445 So I have no disclosures.

NOTE Confidence: 0.9770062

00:05:06.445 --> 00:05:07.165 I'm not sure if that

NOTE Confidence: 0.9770062

00:05:07.165 --> 00:05:07.825 was necessary.

NOTE Confidence: 0.9046967

00:05:09.440 --> 00:05:10.259 We are

NOTE Confidence: 0.99057734

00:05:10.560 --> 00:05:12.560 planning to just describe the

NOTE Confidence: 0.99057734

00:05:12.560 --> 00:05:14.339 current evidence base for strategies
NOTE Confidence: 0.99057734

00:05:14.479 --> 00:05:15.600 to treat acute pain in
NOTE Confidence: 0.99057734

00:05:15.600 --> 00:05:17.279 people with OUD according to
NOTE Confidence: 0.99057734

00:05:17.279 --> 00:05:18.419 this recently published
NOTE Confidence: 0.96029717

00:05:18.720 --> 00:05:20.000 review that Melissa and I
NOTE Confidence: 0.96029717

00:05:20.000 --> 00:05:21.005 led. Identify
NOTE Confidence: 0.98019975

00:05:22.185 --> 00:05:24.505 specific evidence gaps regarding strategies
NOTE Confidence: 0.98019975

00:05:24.505 --> 00:05:25.865 to acute to treat acute
NOTE Confidence: 0.98019975

00:05:25.865 --> 00:05:27.245 pain in people with OUD.
NOTE Confidence: 0.98174846

00:05:27.865 --> 00:05:29.565 You'll see them interspersed throughout.
NOTE Confidence: 0.98174846

00:05:29.705 --> 00:05:30.904 And then, hopefully, you can
NOTE Confidence: 0.98174846

00:05:30.904 --> 00:05:32.185 walk away from this with,
NOTE Confidence: 0.98174846

00:05:32.185 --> 00:05:33.305 you know, at least one
NOTE Confidence: 0.98174846

00:05:33.305 --> 00:05:34.665 or two ideas for a
NOTE Confidence: 0.98174846

00:05:34.665 --> 00:05:36.540 research project to address current
NOTE Confidence: 0.98174846

00:05:36.540 --> 00:05:37.040 gaps,

NOTE Confidence: 0.9899524

00:05:37.740 --> 00:05:39.020 if not many more than

NOTE Confidence: 0.9899524

00:05:39.020 --> 00:05:39.520 that.

NOTE Confidence: 0.99717695

00:05:41.020 --> 00:05:42.320 Just by way of background,

NOTE Confidence: 0.9912353

00:05:43.180 --> 00:05:44.460 treating acute pain in people

NOTE Confidence: 0.9912353

00:05:44.460 --> 00:05:46.380 with OUD is surprisingly common

NOTE Confidence: 0.9912353

00:05:46.380 --> 00:05:48.080 and yet challenging to treat.

NOTE Confidence: 0.9656665

00:05:48.860 --> 00:05:50.300 A systematic review and meta

NOTE Confidence: 0.9656665

00:05:50.300 --> 00:05:52.035 analysis from last year found

NOTE Confidence: 0.9656665

00:05:52.115 --> 00:05:53.315 the pooled prevalence of current

NOTE Confidence: 0.9656665

00:05:53.315 --> 00:05:54.855 pain among people with OUD

NOTE Confidence: 0.9656665

00:05:54.995 --> 00:05:56.135 as sixty percent.

NOTE Confidence: 0.9754894

00:05:57.714 --> 00:05:59.555 Additionally, an estimated thirty percent

NOTE Confidence: 0.9754894

00:05:59.795 --> 00:06:00.995 thirty six, I'm sorry, percent

NOTE Confidence: 0.9754894

00:06:00.995 --> 00:06:01.654 of hospitalizations

NOTE Confidence: 0.96031696

00:06:02.115 --> 00:06:03.395 among people with OUD are

NOTE Confidence: 0.96031696

00:06:03.395 --> 00:06:05.015 for acutely painful conditions,
NOTE Confidence: 0.97070724

00:06:07.450 --> 00:06:09.310 such as injection related infections
NOTE Confidence: 0.98379743

00:06:09.610 --> 00:06:11.370 or trauma in addition to
NOTE Confidence: 0.98379743

00:06:11.370 --> 00:06:12.970 painful conditions common among all
NOTE Confidence: 0.98379743

00:06:12.970 --> 00:06:13.470 adults.
NOTE Confidence: 0.9844638

00:06:14.810 --> 00:06:16.010 And then pain can be
NOTE Confidence: 0.9844638

00:06:16.010 --> 00:06:17.450 challenging to treat in this
NOTE Confidence: 0.9844638

00:06:17.450 --> 00:06:18.970 population for a few reasons,
NOTE Confidence: 0.9844638

00:06:19.290 --> 00:06:21.290 including pain related sequelae from
NOTE Confidence: 0.9844638

00:06:21.290 --> 00:06:22.910 long term exposure to opioids,
NOTE Confidence: 0.96700096

00:06:23.254 --> 00:06:24.214 The fact that pain and
NOTE Confidence: 0.96700096

00:06:24.214 --> 00:06:25.895 withdrawal can often co occur
NOTE Confidence: 0.96700096

00:06:25.895 --> 00:06:27.175 and symptoms can be difficult
NOTE Confidence: 0.96700096

00:06:27.175 --> 00:06:28.875 to distinguish between the two.
NOTE Confidence: 0.96700096

00:06:29.014 --> 00:06:30.315 And then last because pharmacologic
NOTE Confidence: 0.96700096

00:06:30.615 --> 00:06:31.115 properties

NOTE Confidence: 0.9959962
00:06:31.654 --> 00:06:33.095 of the medications we use
NOTE Confidence: 0.9959962
00:06:33.095 --> 00:06:34.775 for opioid use disorder can
NOTE Confidence: 0.9959962
00:06:34.775 --> 00:06:36.055 affect the activity of pain
NOTE Confidence: 0.9959962
00:06:36.055 --> 00:06:37.414 medications and often need to
NOTE Confidence: 0.9959962
00:06:37.414 --> 00:06:38.670 be considered when you're coming
NOTE Confidence: 0.9959962
00:06:38.670 --> 00:06:39.790 up with a plan for
NOTE Confidence: 0.9959962
00:06:39.790 --> 00:06:40.529 your patient.
NOTE Confidence: 0.53565025
00:06:43.230 --> 00:06:43.730 Additionally,
NOTE Confidence: 0.9971533
00:06:44.110 --> 00:06:45.810 and important to not forget,
NOTE Confidence: 0.98060316
00:06:47.390 --> 00:06:48.830 when treating acute pain in
NOTE Confidence: 0.98060316
00:06:48.830 --> 00:06:50.430 people with OUD, it's important
NOTE Confidence: 0.98060316
00:06:50.430 --> 00:06:51.970 to consider the patient perspective
NOTE Confidence: 0.98060316
00:06:52.029 --> 00:06:52.875 and how,
NOTE Confidence: 0.99552864
00:06:53.435 --> 00:06:54.714 the care they receive impacts
NOTE Confidence: 0.99552864
00:06:54.714 --> 00:06:55.935 their overall well-being.
NOTE Confidence: 0.9934631

00:06:56.395 --> 00:06:57.835 Qualitative data shows us that
NOTE Confidence: 0.9934631

00:06:57.835 --> 00:06:59.115 people with OUD consistent
NOTE Confidence: 0.9790662

00:06:59.755 --> 00:07:02.154 consistently report experiencing stigma and
NOTE Confidence: 0.9790662

00:07:02.154 --> 00:07:03.915 perceived minimization of their pain
NOTE Confidence: 0.9790662

00:07:03.915 --> 00:07:05.295 in acute care settings
NOTE Confidence: 0.9799547

00:07:05.680 --> 00:07:07.120 and often avoid seeking medical
NOTE Confidence: 0.9799547

00:07:07.120 --> 00:07:08.560 care altogether for fear of
NOTE Confidence: 0.9799547

00:07:08.560 --> 00:07:09.060 mistreatment.
NOTE Confidence: 0.9592357

00:07:12.000 --> 00:07:13.199 This is a quote that
NOTE Confidence: 0.9592357

00:07:13.199 --> 00:07:14.960 I really like from, a
NOTE Confidence: 0.9592357

00:07:14.960 --> 00:07:16.419 study a few years back,
NOTE Confidence: 0.92274475

00:07:17.039 --> 00:07:17.699 in which,
NOTE Confidence: 0.9686189

00:07:18.315 --> 00:07:19.515 sorry, the study was for
NOTE Confidence: 0.9686189

00:07:19.515 --> 00:07:21.515 folks, undergoing bup initiations in
NOTE Confidence: 0.9686189

00:07:21.515 --> 00:07:23.675 the ED. But, you know,
NOTE Confidence: 0.9686189

00:07:23.675 --> 00:07:24.955 one participant said, I've had

NOTE Confidence: 0.9686189

00:07:24.955 --> 00:07:26.395 emergency room doctors tell me

NOTE Confidence: 0.9686189

00:07:26.395 --> 00:07:27.515 that I shouldn't be ashamed

NOTE Confidence: 0.9686189

00:07:27.515 --> 00:07:29.135 of myself, just ashamed,

NOTE Confidence: 0.9225366

00:07:29.915 --> 00:07:31.115 and belittled and mean to

NOTE Confidence: 0.9225366

00:07:31.115 --> 00:07:32.155 feel, you know, as though

NOTE Confidence: 0.9225366

00:07:32.155 --> 00:07:33.455 my pain is not real.

NOTE Confidence: 0.9843583

00:07:36.290 --> 00:07:37.350 And so with that,

NOTE Confidence: 0.8136527

00:07:39.090 --> 00:07:39.590 we,

NOTE Confidence: 0.9788825

00:07:41.330 --> 00:07:42.610 oh, I'm so sorry. Last

NOTE Confidence: 0.9788825

00:07:42.610 --> 00:07:43.970 last piece. Why should we

NOTE Confidence: 0.9788825

00:07:43.970 --> 00:07:46.130 care about treating acute pain

NOTE Confidence: 0.9788825

00:07:46.130 --> 00:07:47.715 in people with OUD? It's

NOTE Confidence: 0.9788825

00:07:47.715 --> 00:07:48.675 important to note there are

NOTE Confidence: 0.9788825

00:07:48.675 --> 00:07:50.435 multiple negative outcomes that are

NOTE Confidence: 0.9788825

00:07:50.435 --> 00:07:52.055 associated with on or undertreated

NOTE Confidence: 0.9788825

00:07:52.275 --> 00:07:53.555 acute pain for people with
NOTE Confidence: 0.9788825

00:07:53.555 --> 00:07:54.055 OUD,
NOTE Confidence: 0.9460569

00:07:54.755 --> 00:07:56.695 including poor engagement and retention,
NOTE Confidence: 0.9460569

00:07:56.835 --> 00:07:57.975 MOUD care,
NOTE Confidence: 0.9730057

00:07:59.795 --> 00:08:01.395 an increased likelihood of self
NOTE Confidence: 0.9730057

00:08:01.395 --> 00:08:03.440 directed discharge, which itself is
NOTE Confidence: 0.9730057

00:08:03.440 --> 00:08:05.200 associated with increased risk of
NOTE Confidence: 0.9730057

00:08:05.200 --> 00:08:06.900 incomplete antibiotic regimens,
NOTE Confidence: 0.9554792

00:08:08.160 --> 00:08:10.340 higher hospital readmission rates, morbidity,
NOTE Confidence: 0.9554792

00:08:10.480 --> 00:08:12.240 mortality, and health care related
NOTE Confidence: 0.9554792

00:08:12.240 --> 00:08:12.740 cost.
NOTE Confidence: 0.99699605

00:08:14.825 --> 00:08:15.325 Alright.
NOTE Confidence: 0.9943076

00:08:15.785 --> 00:08:17.305 And so with that, we
NOTE Confidence: 0.9943076

00:08:17.305 --> 00:08:18.905 sought to better understand the
NOTE Confidence: 0.9943076

00:08:18.905 --> 00:08:20.665 current evidence base by conducting
NOTE Confidence: 0.9943076

00:08:20.665 --> 00:08:22.745 a systematic review about acute

NOTE Confidence: 0.9943076

00:08:22.745 --> 00:08:24.265 pain management in people with

NOTE Confidence: 0.9943076

00:08:24.265 --> 00:08:24.765 OUD.

NOTE Confidence: 0.9732881

00:08:27.289 --> 00:08:29.210 Our key questions were, first,

NOTE Confidence: 0.9732881

00:08:29.210 --> 00:08:30.970 among adults with OUD, including

NOTE Confidence: 0.9732881

00:08:30.970 --> 00:08:32.510 those prescribed MOUD,

NOTE Confidence: 0.9873884

00:08:33.130 --> 00:08:34.570 what are the benefits and

NOTE Confidence: 0.9873884

00:08:34.570 --> 00:08:36.010 harms of opioid and non

NOTE Confidence: 0.9873884

00:08:36.010 --> 00:08:38.190 opioid interventions for acute pain?

NOTE Confidence: 0.9873884

00:08:38.250 --> 00:08:40.010 Secondly, among adults with OUD,

NOTE Confidence: 0.9873884

00:08:40.010 --> 00:08:41.790 including those prescribed MOUD,

NOTE Confidence: 0.9351821

00:08:42.444 --> 00:08:44.605 are interventions associated with OUD

NOTE Confidence: 0.9351821

00:08:44.605 --> 00:08:45.504 related outcomes,

NOTE Confidence: 0.97419435

00:08:45.804 --> 00:08:47.985 including withdrawal, return to use,

NOTE Confidence: 0.9621506

00:08:48.444 --> 00:08:50.225 or treatment initiation and retention?

NOTE Confidence: 0.98678714

00:08:50.605 --> 00:08:51.725 And then lastly, do the

NOTE Confidence: 0.98678714

00:08:51.725 --> 00:08:53.084 benefits and harms of acute
NOTE Confidence: 0.98678714

00:08:53.084 --> 00:08:54.925 pain interventions vary by use
NOTE Confidence: 0.98678714

00:08:54.925 --> 00:08:56.764 of MOUD before or during
NOTE Confidence: 0.98678714

00:08:56.764 --> 00:08:57.985 the acute pain episode?
NOTE Confidence: 0.9161602

00:09:03.460 --> 00:09:04.920 This was our PICO framing,
NOTE Confidence: 0.9847954

00:09:05.780 --> 00:09:07.140 understandably quite vague in the
NOTE Confidence: 0.9847954

00:09:07.140 --> 00:09:08.179 beginning. I won't talk you
NOTE Confidence: 0.9847954

00:09:08.179 --> 00:09:08.820 through all of it. I
NOTE Confidence: 0.9847954

00:09:08.820 --> 00:09:10.280 think it's somewhat self explanatory,
NOTE Confidence: 0.9503922

00:09:10.660 --> 00:09:12.195 most notably because the extent
NOTE Confidence: 0.9503922

00:09:12.195 --> 00:09:13.635 of available evidence at the
NOTE Confidence: 0.9503922

00:09:13.635 --> 00:09:15.475 time we start to, we
NOTE Confidence: 0.9503922

00:09:15.475 --> 00:09:16.275 set out to do the
NOTE Confidence: 0.9503922

00:09:16.275 --> 00:09:17.335 systematic review.
NOTE Confidence: 0.9651844

00:09:18.115 --> 00:09:19.075 We were just a bit
NOTE Confidence: 0.9651844

00:09:19.075 --> 00:09:19.575 uncertain,

NOTE Confidence: 0.97055066

00:09:20.195 --> 00:09:21.955 and so we we designed

NOTE Confidence: 0.97055066

00:09:21.955 --> 00:09:23.895 this intentionally quite broad.

NOTE Confidence: 0.9928335

00:09:29.300 --> 00:09:30.040 We evaluated,

NOTE Confidence: 0.9662984

00:09:30.900 --> 00:09:32.040 or we systematically,

NOTE Confidence: 0.99190897

00:09:33.620 --> 00:09:34.120 extracted,

NOTE Confidence: 0.9885945

00:09:34.740 --> 00:09:36.260 articles from any of these

NOTE Confidence: 0.9885945

00:09:36.260 --> 00:09:37.700 sources listed here that were

NOTE Confidence: 0.9885945

00:09:37.700 --> 00:09:39.300 published through July seventh of

NOTE Confidence: 0.9885945

00:09:39.300 --> 00:09:40.440 twenty twenty four,

NOTE Confidence: 0.7740245

00:09:40.845 --> 00:09:42.385 and use Citation Chaser,

NOTE Confidence: 0.9905872

00:09:42.764 --> 00:09:43.565 as of the date of

NOTE Confidence: 0.9905872

00:09:43.565 --> 00:09:44.764 our initial search, which was

NOTE Confidence: 0.9905872

00:09:44.764 --> 00:09:46.704 March sixteenth twenty twenty three.

NOTE Confidence: 0.999674

00:09:51.404 --> 00:09:52.285 And this is our flow

NOTE Confidence: 0.999674

00:09:52.285 --> 00:09:53.485 diagram. I'm not sure if

NOTE Confidence: 0.999674

00:09:53.485 --> 00:09:54.144 you can
NOTE Confidence: 0.96206605

00:09:55.000 --> 00:09:56.040 see in detail, and it's
NOTE Confidence: 0.96206605

00:09:56.040 --> 00:09:57.320 not super important, but I
NOTE Confidence: 0.96206605

00:09:57.320 --> 00:09:58.540 do think worth noting
NOTE Confidence: 0.99608064

00:09:58.920 --> 00:10:00.840 that we started with almost
NOTE Confidence: 0.99608064

00:10:00.840 --> 00:10:03.100 twenty thousand records identified
NOTE Confidence: 0.9683468

00:10:03.480 --> 00:10:04.860 from online databases,
NOTE Confidence: 0.99271

00:10:05.240 --> 00:10:06.520 and we ended up including
NOTE Confidence: 0.99271

00:10:06.520 --> 00:10:07.800 only a hundred and fifteen
NOTE Confidence: 0.99271

00:10:07.800 --> 00:10:09.160 studies. And part of that
NOTE Confidence: 0.99271

00:10:09.160 --> 00:10:10.440 was because of the difficulty
NOTE Confidence: 0.99271

00:10:10.440 --> 00:10:10.605 in
NOTE Confidence: 0.9473198

00:10:12.524 --> 00:10:12.684 in pulling,
NOTE Confidence: 0.9739066

00:10:13.485 --> 00:10:14.365 acute pain,
NOTE Confidence: 0.9993368

00:10:14.845 --> 00:10:15.345 interventions
NOTE Confidence: 0.96043664

00:10:17.324 --> 00:10:18.845 in, from, you know, online

NOTE Confidence: 0.96043664

00:10:18.845 --> 00:10:20.545 database source, sources.

NOTE Confidence: 0.99824166

00:10:26.120 --> 00:10:28.540 Included studies represented those evaluating

NOTE Confidence: 0.99824166

00:10:28.839 --> 00:10:30.059 a range of interventions

NOTE Confidence: 0.9277722

00:10:30.679 --> 00:10:32.839 highlighted there across multiple different

NOTE Confidence: 0.9277722

00:10:32.839 --> 00:10:33.740 patient populations,

NOTE Confidence: 0.984301

00:10:34.440 --> 00:10:36.380 grouped by MOUD treatment status,

NOTE Confidence: 0.984301

00:10:36.519 --> 00:10:38.040 and then across a number

NOTE Confidence: 0.984301

00:10:38.040 --> 00:10:39.785 of different painful conditions and

NOTE Confidence: 0.984301

00:10:39.785 --> 00:10:40.525 or settings.

NOTE Confidence: 0.97315675

00:10:41.304 --> 00:10:42.905 And importantly, in sorting through

NOTE Confidence: 0.97315675

00:10:42.905 --> 00:10:45.065 available evidence, we identified several

NOTE Confidence: 0.97315675

00:10:45.065 --> 00:10:46.905 research gaps, which we're gonna

NOTE Confidence: 0.97315675

00:10:46.905 --> 00:10:48.045 walk you through now.

NOTE Confidence: 0.94376075

00:10:49.625 --> 00:10:51.225 First in each domain, we'll

NOTE Confidence: 0.94376075

00:10:51.225 --> 00:10:52.025 talk you through what we

NOTE Confidence: 0.94376075

00:10:52.025 --> 00:10:53.065 did find, and then we'll
NOTE Confidence: 0.94376075

00:10:53.065 --> 00:10:54.480 highlight a notable gap or
NOTE Confidence: 0.94376075

00:10:54.639 --> 00:10:55.600 or notably what we did
NOTE Confidence: 0.94376075

00:10:55.600 --> 00:10:56.260 not find.
NOTE Confidence: 0.99967

00:10:59.519 --> 00:11:00.820 To make this most useful,
NOTE Confidence: 0.96442604

00:11:01.440 --> 00:11:03.839 we'll organize this first by
NOTE Confidence: 0.96442604

00:11:03.839 --> 00:11:04.339 population,
NOTE Confidence: 0.9191048

00:11:05.120 --> 00:11:06.880 then by setting, and last
NOTE Confidence: 0.9191048

00:11:06.880 --> 00:11:08.480 by intervention. Oh, I'm sorry.
NOTE Confidence: 0.9191048

00:11:08.480 --> 00:11:10.315 It's intervention and setting, but
NOTE Confidence: 0.9191048

00:11:10.635 --> 00:11:11.455 by those three,
NOTE Confidence: 0.8081362

00:11:11.995 --> 00:11:12.495 domains,
NOTE Confidence: 0.9128175

00:11:16.154 --> 00:11:17.355 and we'll sprinkle the rest
NOTE Confidence: 0.9128175

00:11:17.355 --> 00:11:18.714 of it, and as it
NOTE Confidence: 0.9128175

00:11:18.714 --> 00:11:20.075 relates to outcome and and
NOTE Confidence: 0.9128175

00:11:20.075 --> 00:11:21.855 timing and and study design,

NOTE Confidence: 0.9856785
00:11:22.235 --> 00:11:23.455 throughout as it's relevant.
NOTE Confidence: 0.97294104
00:11:25.710 --> 00:11:26.450 So first,
NOTE Confidence: 0.9962634
00:11:27.070 --> 00:11:28.510 a number of notable gaps,
NOTE Confidence: 0.9962634
00:11:28.830 --> 00:11:29.950 emerged as it relates to
NOTE Confidence: 0.9962634
00:11:29.950 --> 00:11:30.929 the study population.
NOTE Confidence: 0.9540673
00:11:31.309 --> 00:11:32.990 We categorized our findings into
NOTE Confidence: 0.9540673
00:11:32.990 --> 00:11:33.890 various subpopulations
NOTE Confidence: 0.96360034
00:11:34.350 --> 00:11:36.210 based on OUD treatment status.
NOTE Confidence: 0.9588461
00:11:36.545 --> 00:11:38.305 So notably, people who are
NOTE Confidence: 0.9588461
00:11:38.305 --> 00:11:39.125 taking buprenorphine,
NOTE Confidence: 0.98068714
00:11:39.425 --> 00:11:40.725 people who are taking methadone,
NOTE Confidence: 0.98233384
00:11:41.745 --> 00:11:42.245 naltrexone,
NOTE Confidence: 0.9989602
00:11:42.625 --> 00:11:44.405 or who are actively using
NOTE Confidence: 0.9989602
00:11:44.625 --> 00:11:46.005 and not taking any medication
NOTE Confidence: 0.99753296
00:11:46.385 --> 00:11:47.765 for opioid use disorder.
NOTE Confidence: 0.9834245

00:11:48.465 --> 00:11:49.365 And so first,
NOTE Confidence: 0.9992284

00:11:51.035 --> 00:11:52.540 we can talk about people
NOTE Confidence: 0.9992284

00:11:52.540 --> 00:11:53.360 taking buprenorphine.
NOTE Confidence: 0.97946405

00:11:54.059 --> 00:11:54.540 So,
NOTE Confidence: 0.9864353

00:11:55.100 --> 00:11:57.019 the first intervention that became
NOTE Confidence: 0.9864353

00:11:57.019 --> 00:11:57.899 apparent in,
NOTE Confidence: 0.9964857

00:11:58.540 --> 00:12:00.779 our systematic review was, the
NOTE Confidence: 0.9964857

00:12:00.779 --> 00:12:01.279 continuation
NOTE Confidence: 0.99691325

00:12:01.899 --> 00:12:02.959 compared to discontinuation
NOTE Confidence: 0.98605365

00:12:03.500 --> 00:12:04.779 of people who are taking
NOTE Confidence: 0.98605365

00:12:04.779 --> 00:12:05.839 sublingual buprenorphine.
NOTE Confidence: 0.9384343

00:12:06.620 --> 00:12:07.600 We found twelve,
NOTE Confidence: 0.9940604

00:12:08.035 --> 00:12:09.715 controlled cohort studies with a
NOTE Confidence: 0.9940604

00:12:09.715 --> 00:12:10.995 total n of one thousand
NOTE Confidence: 0.9940604

00:12:10.995 --> 00:12:12.434 five hundred and twenty nine
NOTE Confidence: 0.9940604

00:12:12.434 --> 00:12:13.415 study participants,

NOTE Confidence: 0.99845344
00:12:14.835 --> 00:12:16.855 with a median baseline buprenorphine
NOTE Confidence: 0.98666817
00:12:17.155 --> 00:12:19.475 dose reported in included studies
NOTE Confidence: 0.98666817
00:12:19.475 --> 00:12:21.095 ranging from eight to sixteen
NOTE Confidence: 0.98666817
00:12:21.155 --> 00:12:21.655 milligrams.
NOTE Confidence: 0.96480644
00:12:22.620 --> 00:12:24.620 And then outcomes reported included
NOTE Confidence: 0.96480644
00:12:24.620 --> 00:12:25.440 pain severity,
NOTE Confidence: 0.9840183
00:12:25.820 --> 00:12:28.140 full agonist opioid analgesic use,
NOTE Confidence: 0.9840183
00:12:28.140 --> 00:12:30.300 opioid cravings, and buprenorphine treatment
NOTE Confidence: 0.9840183
00:12:30.300 --> 00:12:30.800 retention.
NOTE Confidence: 0.9548192
00:12:34.665 --> 00:12:35.165 Notably,
NOTE Confidence: 0.998987
00:12:35.545 --> 00:12:37.804 no studies compared pain outcomes
NOTE Confidence: 0.998987
00:12:37.945 --> 00:12:38.684 with buprenorphine
NOTE Confidence: 0.99952155
00:12:39.065 --> 00:12:40.765 continuation versus discontinuation
NOTE Confidence: 0.987709
00:12:41.144 --> 00:12:42.904 in people taking doses greater
NOTE Confidence: 0.987709
00:12:42.904 --> 00:12:44.745 than twenty four milligrams a
NOTE Confidence: 0.987709

00:12:44.745 --> 00:12:46.584 day. It is possible that
NOTE Confidence: 0.987709

00:12:46.584 --> 00:12:49.304 some cohorts included individual study
NOTE Confidence: 0.987709

00:12:49.304 --> 00:12:51.530 participants on doses higher, but
NOTE Confidence: 0.987709

00:12:51.530 --> 00:12:53.690 no study exclusively looked at
NOTE Confidence: 0.987709

00:12:53.690 --> 00:12:54.570 groups with,
NOTE Confidence: 0.9976389

00:12:55.050 --> 00:12:56.750 twenty four or more milligrams
NOTE Confidence: 0.9976389

00:12:56.809 --> 00:12:57.850 per day of their baseline
NOTE Confidence: 0.9976389

00:12:57.850 --> 00:12:59.070 buprenorphine dose.
NOTE Confidence: 0.97608316

00:13:00.490 --> 00:13:02.665 Secondly, only two small studies
NOTE Confidence: 0.97608316

00:13:02.665 --> 00:13:05.165 compared OUD outcomes, so cravings,
NOTE Confidence: 0.97608316

00:13:05.225 --> 00:13:06.505 return to use, or treatment
NOTE Confidence: 0.97608316

00:13:06.505 --> 00:13:07.005 retention
NOTE Confidence: 0.9643877

00:13:07.545 --> 00:13:08.285 with buprenorphine,
NOTE Confidence: 0.9851651

00:13:09.145 --> 00:13:11.225 continuation compared to discontinuation of
NOTE Confidence: 0.9851651

00:13:11.225 --> 00:13:12.045 any dose.
NOTE Confidence: 0.98513895

00:13:12.985 --> 00:13:13.945 And so we thought that

NOTE Confidence: 0.98513895
00:13:13.945 --> 00:13:14.345 was,
NOTE Confidence: 0.9884288
00:13:14.905 --> 00:13:15.565 a notable,
NOTE Confidence: 0.999731
00:13:16.425 --> 00:13:17.485 gap in the literature.
NOTE Confidence: 0.99979866
00:13:19.200 --> 00:13:19.700 Secondly,
NOTE Confidence: 0.87583476
00:13:20.880 --> 00:13:21.700 we did,
NOTE Confidence: 0.98724747
00:13:22.640 --> 00:13:23.440 look to see what the
NOTE Confidence: 0.98724747
00:13:23.440 --> 00:13:26.240 evidence base was around, making
NOTE Confidence: 0.98724747
00:13:26.240 --> 00:13:28.340 changes to someone's baseline sublingual
NOTE Confidence: 0.98724747
00:13:28.400 --> 00:13:30.240 buprenorphine dose and or frequency,
NOTE Confidence: 0.98724747
00:13:30.240 --> 00:13:31.520 and we found one case
NOTE Confidence: 0.98724747
00:13:31.520 --> 00:13:32.020 report.
NOTE Confidence: 0.98535734
00:13:33.375 --> 00:13:35.134 It described effective pain management
NOTE Confidence: 0.98535734
00:13:35.134 --> 00:13:37.054 resulting from a temporary increase
NOTE Confidence: 0.98535734
00:13:37.054 --> 00:13:39.154 of sublingual buprenorphine postoperatively
NOTE Confidence: 0.9655536
00:13:39.855 --> 00:13:41.214 from twenty four milligrams at
NOTE Confidence: 0.9655536

00:13:41.214 --> 00:13:42.255 baseline all the way to
NOTE Confidence: 0.9655536

00:13:42.255 --> 00:13:44.255 seventy two milligrams daily that
NOTE Confidence: 0.9655536

00:13:44.255 --> 00:13:45.154 was then tapered,
NOTE Confidence: 0.92929024

00:13:45.934 --> 00:13:47.315 post hospital discharge.
NOTE Confidence: 0.99627084

00:13:51.420 --> 00:13:51.920 Yeah.
NOTE Confidence: 0.996088

00:13:52.700 --> 00:13:53.420 And so,
NOTE Confidence: 0.9932988

00:13:53.900 --> 00:13:55.980 the gap here is, that
NOTE Confidence: 0.9932988

00:13:55.980 --> 00:13:58.059 no studies compared pain or
NOTE Confidence: 0.9932988

00:13:58.059 --> 00:14:00.559 OUD outcomes associated with temporary
NOTE Confidence: 0.9932988

00:14:00.700 --> 00:14:01.760 dose or frequency
NOTE Confidence: 0.9892857

00:14:02.355 --> 00:14:04.135 changes to sublingual buprenorphine,
NOTE Confidence: 0.80801946

00:14:05.315 --> 00:14:06.515 for example, split in the
NOTE Confidence: 0.80801946

00:14:06.515 --> 00:14:07.015 same.
NOTE Confidence: 0.973896

00:14:08.115 --> 00:14:09.155 I'll just add,
NOTE Confidence: 0.91348135

00:14:09.554 --> 00:14:11.095 sorry, going back that
NOTE Confidence: 0.74854976

00:14:11.635 --> 00:14:13.095 though we categorized

NOTE Confidence: 0.9987036
00:14:13.475 --> 00:14:15.255 case studies in our systematic
NOTE Confidence: 0.9987036
00:14:15.395 --> 00:14:16.695 review, we didn't
NOTE Confidence: 0.9865518
00:14:17.130 --> 00:14:19.450 include them in the decision
NOTE Confidence: 0.9865518
00:14:19.450 --> 00:14:20.990 making or our findings.
NOTE Confidence: 0.9939697
00:14:21.690 --> 00:14:22.750 So I think what's
NOTE Confidence: 0.999366
00:14:23.210 --> 00:14:25.130 helpful about our systematic review
NOTE Confidence: 0.999366
00:14:25.130 --> 00:14:25.630 is
NOTE Confidence: 0.94122946
00:14:26.170 --> 00:14:26.570 we,
NOTE Confidence: 0.9117883
00:14:28.330 --> 00:14:30.090 we tried to categorize all
NOTE Confidence: 0.9117883
00:14:30.090 --> 00:14:31.070 of the research,
NOTE Confidence: 0.756226
00:14:31.610 --> 00:14:32.110 though,
NOTE Confidence: 0.97122955
00:14:32.525 --> 00:14:34.125 really, the systematic review was
NOTE Confidence: 0.97122955
00:14:34.125 --> 00:14:35.825 focused on controlled studies.
NOTE Confidence: 0.991988
00:14:36.365 --> 00:14:38.285 However, in our appendix, you'll
NOTE Confidence: 0.991988
00:14:38.285 --> 00:14:38.785 see
NOTE Confidence: 0.98455757

00:14:39.405 --> 00:14:40.545 I think there are about
NOTE Confidence: 0.98455757

00:14:40.685 --> 00:14:42.865 almost sixty case studies,
NOTE Confidence: 0.9777765

00:14:43.485 --> 00:14:45.405 that we did include, and
NOTE Confidence: 0.9777765

00:14:45.405 --> 00:14:46.945 that was important for
NOTE Confidence: 0.9997479

00:14:47.850 --> 00:14:49.390 some of the categories
NOTE Confidence: 0.9890262

00:14:50.010 --> 00:14:51.529 of patients who were, say,
NOTE Confidence: 0.9890262

00:14:51.529 --> 00:14:52.990 on extended release buprenorphine
NOTE Confidence: 0.96694833

00:14:53.370 --> 00:14:54.970 or extended release naltrexone or
NOTE Confidence: 0.96694833

00:14:54.970 --> 00:14:56.829 oral naltrexone because there weren't
NOTE Confidence: 0.96032304

00:14:57.209 --> 00:14:59.390 controlled studies on those populations.
NOTE Confidence: 0.96032304

00:14:59.610 --> 00:15:00.110 So,
NOTE Confidence: 0.9608827

00:15:00.915 --> 00:15:02.615 also, I think a helpful
NOTE Confidence: 0.9608827

00:15:02.675 --> 00:15:04.115 resource, if you're doing work
NOTE Confidence: 0.9608827

00:15:04.115 --> 00:15:05.235 in this area, would be
NOTE Confidence: 0.9608827

00:15:05.235 --> 00:15:06.595 look at our appendix because
NOTE Confidence: 0.9608827

00:15:06.595 --> 00:15:07.815 it's gonna show you,

NOTE Confidence: 0.9929525

00:15:08.435 --> 00:15:10.435 albeit not not high level

NOTE Confidence: 0.9929525

00:15:10.435 --> 00:15:11.555 of evidence, but it's gonna

NOTE Confidence: 0.9929525

00:15:11.555 --> 00:15:12.834 show you case reports that

NOTE Confidence: 0.9929525

00:15:12.834 --> 00:15:14.195 are out there for those

NOTE Confidence: 0.9929525

00:15:14.195 --> 00:15:14.695 particular

NOTE Confidence: 0.9963333

00:15:16.290 --> 00:15:18.230 modalities of treatment for OUD.

NOTE Confidence: 0.96800286

00:15:20.930 --> 00:15:23.170 Yeah. Thanks, Melissa. That's Michelle,

NOTE Confidence: 0.96800286

00:15:23.170 --> 00:15:24.130 can I can I just

NOTE Confidence: 0.96800286

00:15:24.130 --> 00:15:25.589 ask a clarifying question?

NOTE Confidence: 0.9400946

00:15:25.970 --> 00:15:27.410 Yeah. I think it's absolutely

NOTE Confidence: 0.9400946

00:15:27.410 --> 00:15:29.555 fascinating. So you in you

NOTE Confidence: 0.9400946

00:15:29.555 --> 00:15:31.075 included that case report of

NOTE Confidence: 0.9400946

00:15:31.075 --> 00:15:31.895 dose increase.

NOTE Confidence: 0.9692569

00:15:32.595 --> 00:15:33.395 I think it was a

NOTE Confidence: 0.9692569

00:15:33.395 --> 00:15:34.515 letter or a case report

NOTE Confidence: 0.9692569

00:15:34.515 --> 00:15:35.175 or something
NOTE Confidence: 0.9560623

00:15:35.635 --> 00:15:37.235 of buprenorphine to treat acute
NOTE Confidence: 0.9560623

00:15:37.235 --> 00:15:37.735 pain.
NOTE Confidence: 0.96147406

00:15:38.115 --> 00:15:39.555 I and that was back
NOTE Confidence: 0.96147406

00:15:39.555 --> 00:15:40.995 in two thousand seven. I
NOTE Confidence: 0.96147406

00:15:40.995 --> 00:15:43.310 remember it very well. Are
NOTE Confidence: 0.96147406

00:15:43.310 --> 00:15:44.590 you saying that nobody has
NOTE Confidence: 0.96147406

00:15:44.590 --> 00:15:45.890 systematically evaluated
NOTE Confidence: 0.9925604

00:15:46.510 --> 00:15:47.250 dose increases
NOTE Confidence: 0.87552667

00:15:47.630 --> 00:15:48.370 for QPIP?
NOTE Confidence: 0.9577599

00:15:49.230 --> 00:15:50.830 Not a single study. Wow.
NOTE Confidence: 0.9577599

00:15:50.830 --> 00:15:51.710 I know. Thank you. I
NOTE Confidence: 0.9577599

00:15:51.710 --> 00:15:52.750 know we were shocked as
NOTE Confidence: 0.9577599

00:15:52.750 --> 00:15:53.250 well.
NOTE Confidence: 0.989698

00:15:54.270 --> 00:15:55.330 Also, interestingly,
NOTE Confidence: 0.99956375

00:15:56.110 --> 00:15:57.090 most of the

NOTE Confidence: 0.98593205

00:15:57.475 --> 00:15:57.975 perioperative

NOTE Confidence: 0.99617714

00:15:58.275 --> 00:15:59.655 management of buprenorphine,

NOTE Confidence: 0.94221807

00:16:00.515 --> 00:16:01.555 all of it has really

NOTE Confidence: 0.94221807

00:16:01.555 --> 00:16:03.815 looked at potential dose reductions

NOTE Confidence: 0.94221807

00:16:03.875 --> 00:16:04.935 or as Michelle

NOTE Confidence: 0.99179363

00:16:05.315 --> 00:16:05.815 mentioned,

NOTE Confidence: 0.9889093

00:16:08.835 --> 00:16:10.290 doses that don't go up

NOTE Confidence: 0.9889093

00:16:10.290 --> 00:16:11.970 to what we're typically using

NOTE Confidence: 0.9889093

00:16:11.970 --> 00:16:13.090 for patients now, which is

NOTE Confidence: 0.9889093

00:16:13.090 --> 00:16:14.210 twenty four or thirty two

NOTE Confidence: 0.9889093

00:16:14.210 --> 00:16:15.570 milligrams, or patients who are

NOTE Confidence: 0.9889093

00:16:15.570 --> 00:16:16.450 on extended release

NOTE Confidence: 0.7279973

00:16:17.410 --> 00:16:17.910 no.

NOTE Confidence: 0.97122115

00:16:18.530 --> 00:16:20.710 Excuse me. Extended release buprenorphine.

NOTE Confidence: 0.9990226

00:16:21.250 --> 00:16:23.030 So we really don't have

NOTE Confidence: 0.9985085

00:16:24.595 --> 00:16:25.095 rigorous
NOTE Confidence: 0.9994407

00:16:26.515 --> 00:16:27.015 research
NOTE Confidence: 0.99663556

00:16:28.035 --> 00:16:30.195 to support what I do
NOTE Confidence: 0.99663556

00:16:30.195 --> 00:16:31.715 in clinical practice, which is
NOTE Confidence: 0.99663556

00:16:31.715 --> 00:16:33.235 I don't reduce the dose
NOTE Confidence: 0.99663556

00:16:33.235 --> 00:16:33.895 of buprenorphine.
NOTE Confidence: 0.99809176

00:16:34.275 --> 00:16:35.155 I keep the dose of
NOTE Confidence: 0.99809176

00:16:35.155 --> 00:16:37.655 buprenorphine at twenty four milligrams
NOTE Confidence: 0.99809176

00:16:37.795 --> 00:16:39.095 for patients who are
NOTE Confidence: 0.991629

00:16:39.660 --> 00:16:41.279 in the perioperative setting.
NOTE Confidence: 0.98425657

00:16:41.820 --> 00:16:43.579 Now could we do a
NOTE Confidence: 0.98425657

00:16:43.579 --> 00:16:44.079 retrospective
NOTE Confidence: 0.98624057

00:16:44.380 --> 00:16:46.060 cohort study? Yes. We certainly
NOTE Confidence: 0.98624057

00:16:46.060 --> 00:16:48.079 could. But that's an example
NOTE Confidence: 0.9315707

00:16:48.459 --> 00:16:50.220 of we need research like
NOTE Confidence: 0.9315707

00:16:50.220 --> 00:16:51.760 that, particularly in the,

NOTE Confidence: 0.9631445

00:16:53.035 --> 00:16:54.315 in the clinical setting. If

NOTE Confidence: 0.9631445

00:16:54.315 --> 00:16:54.815 you

NOTE Confidence: 0.9892321

00:16:55.915 --> 00:16:57.435 are practicing that way and

NOTE Confidence: 0.9892321

00:16:57.435 --> 00:16:58.795 you have a data source,

NOTE Confidence: 0.9892321

00:16:58.795 --> 00:16:59.595 like, that would be a

NOTE Confidence: 0.9892321

00:16:59.595 --> 00:17:00.795 great example of a study

NOTE Confidence: 0.9892321

00:17:00.795 --> 00:17:01.995 that you could potentially think

NOTE Confidence: 0.9892321

00:17:01.995 --> 00:17:02.495 about.

NOTE Confidence: 0.91258174

00:17:06.200 --> 00:17:07.980 It looks like Shelley said

NOTE Confidence: 0.91258174

00:17:08.119 --> 00:17:09.880 one of Jesse Merlin's EMPOWUR

NOTE Confidence: 0.91258174

00:17:09.880 --> 00:17:11.640 study will examine bup up

NOTE Confidence: 0.91258174

00:17:11.640 --> 00:17:12.840 to thirty two milligrams in

NOTE Confidence: 0.91258174

00:17:12.840 --> 00:17:14.920 split dosing. So data in

NOTE Confidence: 0.91258174

00:17:14.920 --> 00:17:16.280 a few years and chronic

NOTE Confidence: 0.91258174

00:17:16.280 --> 00:17:17.660 pain, not acute pain.

NOTE Confidence: 0.9278047

00:17:18.295 --> 00:17:20.455 So, yes. Right. Still still
NOTE Confidence: 0.9278047

00:17:20.455 --> 00:17:22.075 an open research question.
NOTE Confidence: 0.97001785

00:17:22.935 --> 00:17:24.215 Yeah. And I will add
NOTE Confidence: 0.97001785

00:17:24.215 --> 00:17:25.575 anecdotally. I think I think
NOTE Confidence: 0.97001785

00:17:25.575 --> 00:17:26.935 that you'll see this as
NOTE Confidence: 0.97001785

00:17:26.935 --> 00:17:28.375 as we go throughout. But,
NOTE Confidence: 0.97001785

00:17:28.775 --> 00:17:30.875 this is a an exciting
NOTE Confidence: 0.96034646

00:17:31.600 --> 00:17:33.279 clinical and research area in
NOTE Confidence: 0.96034646

00:17:33.279 --> 00:17:35.379 many ways because clinical practice
NOTE Confidence: 0.96034646

00:17:35.519 --> 00:17:37.440 somewhat precedes and and expert
NOTE Confidence: 0.96034646

00:17:37.440 --> 00:17:37.940 guidelines,
NOTE Confidence: 0.953353

00:17:38.720 --> 00:17:40.799 somewhat precede the evidence here.
NOTE Confidence: 0.953353

00:17:40.799 --> 00:17:41.299 Right?
NOTE Confidence: 0.99161744

00:17:41.919 --> 00:17:43.279 Which was actually the intention
NOTE Confidence: 0.99161744

00:17:43.279 --> 00:17:44.320 of my next slide, which
NOTE Confidence: 0.99161744

00:17:44.320 --> 00:17:45.119 I don't think I need

NOTE Confidence: 0.99161744
00:17:45.119 --> 00:17:46.559 to introduce to this audience,
NOTE Confidence: 0.99161744
00:17:46.559 --> 00:17:48.585 but worth noting that the
NOTE Confidence: 0.99161744
00:17:48.585 --> 00:17:49.465 idea of,
NOTE Confidence: 0.9940907
00:17:50.025 --> 00:17:52.285 split dosing or temporary increases
NOTE Confidence: 0.9714706
00:17:52.905 --> 00:17:53.645 is already,
NOTE Confidence: 0.9212997
00:17:55.145 --> 00:17:56.525 recommended in expert,
NOTE Confidence: 0.9582473
00:17:56.905 --> 00:17:57.405 guidance,
NOTE Confidence: 0.97118914
00:17:57.705 --> 00:17:59.145 and being done in clinical
NOTE Confidence: 0.97118914
00:17:59.145 --> 00:18:00.570 practice. So the fact that
NOTE Confidence: 0.97118914
00:18:00.570 --> 00:18:01.690 we only find it on
NOTE Confidence: 0.97118914
00:18:01.690 --> 00:18:03.210 a handful, in this case,
NOTE Confidence: 0.97118914
00:18:03.210 --> 00:18:04.670 one case report,
NOTE Confidence: 0.9413816
00:18:05.609 --> 00:18:06.590 I think is notable.
NOTE Confidence: 0.9484217
00:18:09.929 --> 00:18:10.429 Okay.
NOTE Confidence: 0.99953115
00:18:10.730 --> 00:18:11.869 Continuing on
NOTE Confidence: 0.980181

00:18:13.705 --> 00:18:15.785 to Melissa's point, we also
NOTE Confidence: 0.980181

00:18:15.785 --> 00:18:18.025 looked for any intervention in
NOTE Confidence: 0.980181

00:18:18.025 --> 00:18:19.305 people taking a long acting
NOTE Confidence: 0.980181

00:18:19.305 --> 00:18:20.525 injectable buprenorphine.
NOTE Confidence: 0.9551913

00:18:20.825 --> 00:18:22.445 And although I will note,
NOTE Confidence: 0.75511837

00:18:23.385 --> 00:18:23.885 that,
NOTE Confidence: 0.99959236

00:18:24.425 --> 00:18:26.105 we're seeing an increase in
NOTE Confidence: 0.99959236

00:18:26.105 --> 00:18:27.485 the number of publications
NOTE Confidence: 0.98233163

00:18:27.865 --> 00:18:29.619 on this topic, they
NOTE Confidence: 0.9453401

00:18:30.080 --> 00:18:31.600 are up until at least
NOTE Confidence: 0.9453401

00:18:31.600 --> 00:18:33.460 July seventh twenty twenty four
NOTE Confidence: 0.9453401

00:18:33.600 --> 00:18:34.960 limited to case reports and
NOTE Confidence: 0.9453401

00:18:34.960 --> 00:18:35.460 series.
NOTE Confidence: 0.98605347

00:18:36.240 --> 00:18:37.840 We found six in our
NOTE Confidence: 0.98605347

00:18:37.840 --> 00:18:39.360 systematic review, and I won't
NOTE Confidence: 0.98605347

00:18:39.360 --> 00:18:41.119 list them individually, but can

NOTE Confidence: 0.98605347
00:18:41.119 --> 00:18:42.260 just kind of summarize
NOTE Confidence: 0.91316444
00:18:42.720 --> 00:18:43.920 as a group they all
NOTE Confidence: 0.91316444
00:18:43.920 --> 00:18:44.420 describe,
NOTE Confidence: 0.9982429
00:18:45.095 --> 00:18:46.075 various effective
NOTE Confidence: 0.97236365
00:18:46.455 --> 00:18:48.475 multimodal analgesic strategies,
NOTE Confidence: 0.99218684
00:18:48.935 --> 00:18:50.695 many of which including included
NOTE Confidence: 0.99218684
00:18:50.695 --> 00:18:52.055 the use of full agonist
NOTE Confidence: 0.99218684
00:18:52.055 --> 00:18:52.955 opioid medications
NOTE Confidence: 0.98001325
00:18:53.655 --> 00:18:54.315 in people,
NOTE Confidence: 0.99755245
00:18:55.734 --> 00:18:57.675 taking long acting injectable buprenorphine
NOTE Confidence: 0.99755245
00:18:57.975 --> 00:18:58.635 for OUD.
NOTE Confidence: 0.9671382
00:19:00.419 --> 00:19:01.619 And so, again, the gap
NOTE Confidence: 0.9671382
00:19:01.619 --> 00:19:02.359 here being,
NOTE Confidence: 0.96813154
00:19:02.740 --> 00:19:04.679 no comparative studies have evaluated
NOTE Confidence: 0.96813154
00:19:04.820 --> 00:19:07.000 any acute pain intervention, including,
NOTE Confidence: 0.99670553

00:19:07.619 --> 00:19:09.640 adding on additional sublingual buprenorphine

NOTE Confidence: 0.99670553

00:19:09.859 --> 00:19:10.679 in this group,

NOTE Confidence: 0.9986817

00:19:11.460 --> 00:19:12.820 for people taking a long

NOTE Confidence: 0.9986817

00:19:12.820 --> 00:19:15.159 acting injectable buprenorphine for OUD.

NOTE Confidence: 0.9993892

00:19:19.115 --> 00:19:19.615 Okay.

NOTE Confidence: 0.96639556

00:19:20.235 --> 00:19:22.015 Moving on. Our next subpopulation

NOTE Confidence: 0.98510814

00:19:22.315 --> 00:19:24.235 being folks taking methadone for

NOTE Confidence: 0.98510814

00:19:24.235 --> 00:19:24.735 OUD,

NOTE Confidence: 0.99495065

00:19:26.635 --> 00:19:27.135 and

NOTE Confidence: 0.9895696

00:19:27.515 --> 00:19:29.295 the practice of continuing methadone

NOTE Confidence: 0.9895696

00:19:29.355 --> 00:19:30.875 versus discontinuing, I think, is

NOTE Confidence: 0.9895696

00:19:30.875 --> 00:19:31.200 perhaps

NOTE Confidence: 0.98195875

00:19:31.679 --> 00:19:32.419 less debated,

NOTE Confidence: 0.9836288

00:19:33.279 --> 00:19:34.899 in terms of clinical practice

NOTE Confidence: 0.9836288

00:19:35.039 --> 00:19:36.000 given the difference in the

NOTE Confidence: 0.9836288

00:19:36.000 --> 00:19:37.600 pharmacologic properties of the two

NOTE Confidence: 0.9836288

00:19:37.600 --> 00:19:38.100 medications.

NOTE Confidence: 0.9795329

00:19:38.799 --> 00:19:39.299 However,

NOTE Confidence: 0.9953118

00:19:39.679 --> 00:19:41.139 in this case as well,

NOTE Confidence: 0.9953118

00:19:41.200 --> 00:19:42.960 we found one controlled cohort

NOTE Confidence: 0.9953118

00:19:42.960 --> 00:19:43.460 study.

NOTE Confidence: 0.9420235

00:19:46.005 --> 00:19:47.205 This was a a study

NOTE Confidence: 0.9420235

00:19:47.205 --> 00:19:48.565 of twenty nine people on

NOTE Confidence: 0.9420235

00:19:48.565 --> 00:19:50.244 methadone for OUD who were

NOTE Confidence: 0.9420235

00:19:50.244 --> 00:19:51.785 hospitalized with acute pain,

NOTE Confidence: 0.9867755

00:19:52.325 --> 00:19:53.285 which found that the mean

NOTE Confidence: 0.9867755

00:19:53.285 --> 00:19:55.285 pain scores and cumulative morphine

NOTE Confidence: 0.9867755

00:19:55.285 --> 00:19:57.605 doses required during the hospital

NOTE Confidence: 0.9867755

00:19:57.605 --> 00:19:58.965 were similar between those who

NOTE Confidence: 0.9867755

00:19:58.965 --> 00:20:00.425 continued versus discontinued

NOTE Confidence: 0.991578

00:20:00.820 --> 00:20:02.760 their usual methadone dose perioperatively.

NOTE Confidence: 0.9014101

00:20:04.660 --> 00:20:06.180 However, notable that more people
NOTE Confidence: 0.9014101

00:20:06.180 --> 00:20:06.840 who discontinued
NOTE Confidence: 0.8464365

00:20:07.380 --> 00:20:09.540 their methadone received NSAIDs and
NOTE Confidence: 0.8464365

00:20:09.540 --> 00:20:10.520 I beam ketamine,
NOTE Confidence: 0.9580251

00:20:11.140 --> 00:20:11.540 and,
NOTE Confidence: 0.99158704

00:20:12.020 --> 00:20:13.300 this study did not control
NOTE Confidence: 0.99158704

00:20:13.300 --> 00:20:14.200 for those differences.
NOTE Confidence: 0.96711856

00:20:15.025 --> 00:20:16.145 And so we we we
NOTE Confidence: 0.96711856

00:20:16.145 --> 00:20:17.185 weren't able to make any
NOTE Confidence: 0.96711856

00:20:17.185 --> 00:20:18.545 conclusions based on this for
NOTE Confidence: 0.96711856

00:20:18.545 --> 00:20:19.765 the systematic review.
NOTE Confidence: 0.9561839

00:20:24.225 --> 00:20:25.605 As it relates to changes
NOTE Confidence: 0.9561839

00:20:25.744 --> 00:20:27.440 in baseline methadone dose and
NOTE Confidence: 0.9561839

00:20:27.440 --> 00:20:28.960 or frequency, we did find
NOTE Confidence: 0.9561839

00:20:28.960 --> 00:20:30.800 one uncontrolled cohort study in
NOTE Confidence: 0.9561839

00:20:30.800 --> 00:20:31.859 one case series,

NOTE Confidence: 0.9582792

00:20:32.160 --> 00:20:34.420 addressing this practice. The observational

NOTE Confidence: 0.9582792

00:20:34.559 --> 00:20:36.000 study published in two thousand

NOTE Confidence: 0.9582792

00:20:36.000 --> 00:20:36.580 and eight,

NOTE Confidence: 0.9652505

00:20:37.040 --> 00:20:38.480 of sixty seven people on

NOTE Confidence: 0.9652505

00:20:38.480 --> 00:20:40.480 methadone average dose of eighty

NOTE Confidence: 0.9652505

00:20:40.480 --> 00:20:41.140 two milligrams

NOTE Confidence: 0.98246324

00:20:41.715 --> 00:20:43.794 hospitalized with acute pain reported

NOTE Confidence: 0.98246324

00:20:43.794 --> 00:20:45.075 that twelve percent had their

NOTE Confidence: 0.98246324

00:20:45.075 --> 00:20:46.835 daily dose of methadone increased

NOTE Confidence: 0.98246324

00:20:46.835 --> 00:20:48.775 during the stay, and premature

NOTE Confidence: 0.98246324

00:20:48.835 --> 00:20:50.434 discharge was more common among

NOTE Confidence: 0.98246324

00:20:50.434 --> 00:20:51.395 those who did not have

NOTE Confidence: 0.98246324

00:20:51.395 --> 00:20:53.475 their methadone dose increased compared

NOTE Confidence: 0.98246324

00:20:53.475 --> 00:20:54.840 to those who did. However,

NOTE Confidence: 0.98246324

00:20:54.840 --> 00:20:56.760 no explicit pain outcomes were

NOTE Confidence: 0.98246324

00:20:56.760 --> 00:20:58.299 compared between the two groups.

NOTE Confidence: 0.9626433

00:20:58.600 --> 00:20:59.640 And then the case series

NOTE Confidence: 0.9626433

00:20:59.640 --> 00:21:01.179 from two thousand one describes

NOTE Confidence: 0.9626433

00:21:01.240 --> 00:21:02.920 six people taking methadone for

NOTE Confidence: 0.9626433

00:21:02.920 --> 00:21:04.700 OUD with acute or subacute

NOTE Confidence: 0.9626433

00:21:04.920 --> 00:21:06.299 cancer related pain,

NOTE Confidence: 0.98031676

00:21:06.655 --> 00:21:08.095 and this just kinda describes

NOTE Confidence: 0.98031676

00:21:08.095 --> 00:21:09.215 how they were able to

NOTE Confidence: 0.98031676

00:21:09.215 --> 00:21:10.975 achieve pain control with increased

NOTE Confidence: 0.98031676

00:21:10.975 --> 00:21:13.295 doses and or frequencies ranging

NOTE Confidence: 0.98031676

00:21:13.295 --> 00:21:14.494 from every four to eight

NOTE Confidence: 0.98031676

00:21:14.494 --> 00:21:14.994 hours

NOTE Confidence: 0.9903346

00:21:15.375 --> 00:21:16.975 of oral methadone or the

NOTE Confidence: 0.9903346

00:21:16.975 --> 00:21:18.895 administration in one case of

NOTE Confidence: 0.9903346

00:21:18.895 --> 00:21:19.715 IV methadone.

NOTE Confidence: 0.9931435

00:21:24.470 --> 00:21:25.990 And so the gap here,

NOTE Confidence: 0.9931435

00:21:25.990 --> 00:21:27.669 no studies have compared pain

NOTE Confidence: 0.9931435

00:21:27.669 --> 00:21:29.590 or OUD outcomes associated with

NOTE Confidence: 0.9931435

00:21:29.590 --> 00:21:31.750 temporary increases in methadone dose

NOTE Confidence: 0.9931435

00:21:31.750 --> 00:21:32.650 and or frequency,

NOTE Confidence: 0.9413143

00:21:33.270 --> 00:21:34.789 I e split missing. So

NOTE Confidence: 0.9413143

00:21:34.789 --> 00:21:36.070 similar to in the case

NOTE Confidence: 0.9413143

00:21:36.070 --> 00:21:36.730 of buprenorphine.

NOTE Confidence: 0.97790986

00:21:42.284 --> 00:21:43.404 I just pulled in. I

NOTE Confidence: 0.97790986

00:21:43.404 --> 00:21:45.005 actually borrowed this table from

NOTE Confidence: 0.97790986

00:21:45.085 --> 00:21:46.205 I adapted it from a

NOTE Confidence: 0.97790986

00:21:46.205 --> 00:21:48.385 publication from, Dale Terasaki,

NOTE Confidence: 0.9700944

00:21:50.140 --> 00:21:51.500 And just highlighting the fact

NOTE Confidence: 0.9700944

00:21:51.500 --> 00:21:51.820 that,

NOTE Confidence: 0.9637538

00:21:52.460 --> 00:21:54.320 again, similar to to buprenorphine,

NOTE Confidence: 0.9987919

00:21:55.260 --> 00:21:55.760 this

NOTE Confidence: 0.9905169

00:21:56.140 --> 00:21:58.940 practice of, temporarily making changes

NOTE Confidence: 0.9905169

00:21:58.940 --> 00:22:00.220 to the methadone dose and

NOTE Confidence: 0.9905169

00:22:00.220 --> 00:22:00.960 or frequency

NOTE Confidence: 0.9805881

00:22:01.260 --> 00:22:02.619 is currently recommended by a

NOTE Confidence: 0.9805881

00:22:02.619 --> 00:22:04.160 number of expert organizations,

NOTE Confidence: 0.9958237

00:22:05.035 --> 00:22:06.315 and is already clinically in

NOTE Confidence: 0.9958237

00:22:06.315 --> 00:22:06.815 practice,

NOTE Confidence: 0.9989956

00:22:07.435 --> 00:22:08.475 or has been for many

NOTE Confidence: 0.9989956

00:22:08.475 --> 00:22:08.975 years.

NOTE Confidence: 0.9959742

00:22:13.195 --> 00:22:13.695 Okay.

NOTE Confidence: 0.98019445

00:22:16.155 --> 00:22:17.035 So now we'll talk a

NOTE Confidence: 0.98019445

00:22:17.035 --> 00:22:18.734 little bit about different interventions

NOTE Confidence: 0.98019445

00:22:18.875 --> 00:22:19.915 that we came across in

NOTE Confidence: 0.98019445

00:22:19.915 --> 00:22:20.575 the systematic

NOTE Confidence: 0.96270907

00:22:21.730 --> 00:22:23.830 review. And so to refresh

NOTE Confidence: 0.9720174

00:22:24.130 --> 00:22:25.650 everyone's memory, I'm talking about

NOTE Confidence: 0.9720174

00:22:25.650 --> 00:22:27.350 the far left, column.

NOTE Confidence: 0.9363257

00:22:30.210 --> 00:22:31.170 And we did in the

NOTE Confidence: 0.9363257

00:22:31.170 --> 00:22:33.010 systematic review make a few,

NOTE Confidence: 0.97452736

00:22:33.490 --> 00:22:35.330 conclusions with low strength of

NOTE Confidence: 0.97452736

00:22:35.330 --> 00:22:35.830 evidence,

NOTE Confidence: 0.9866315

00:22:36.855 --> 00:22:38.375 based on the presence of

NOTE Confidence: 0.9866315

00:22:38.375 --> 00:22:40.615 at least one randomized clinical

NOTE Confidence: 0.9866315

00:22:40.615 --> 00:22:42.075 trial with low,

NOTE Confidence: 0.9875574

00:22:42.775 --> 00:22:43.755 risk of bias,

NOTE Confidence: 0.96293724

00:22:45.175 --> 00:22:47.435 for interventions, which may improve

NOTE Confidence: 0.96293724

00:22:47.655 --> 00:22:49.380 pain outcomes in people with

NOTE Confidence: 0.96293724

00:22:49.460 --> 00:22:50.740 with opioid use disorder. And

NOTE Confidence: 0.96293724

00:22:50.740 --> 00:22:51.940 so I've listed those three

NOTE Confidence: 0.96293724

00:22:51.940 --> 00:22:53.260 here, and I'll go into

NOTE Confidence: 0.96293724

00:22:53.260 --> 00:22:54.020 a time a bit more

NOTE Confidence: 0.96293724

00:22:54.020 --> 00:22:55.000 detail for you.
NOTE Confidence: 0.9783467

00:22:55.300 --> 00:22:56.040 So first,
NOTE Confidence: 0.8466077

00:22:56.660 --> 00:22:57.320 p oclonidine.
NOTE Confidence: 0.9612716

00:22:57.859 --> 00:22:59.080 So this was a single
NOTE Confidence: 0.9612716

00:22:59.140 --> 00:23:00.580 RCT with a low risk
NOTE Confidence: 0.9612716

00:23:00.580 --> 00:23:02.440 of bias conducted among seventy,
NOTE Confidence: 0.9619712

00:23:04.065 --> 00:23:04.465 adults,
NOTE Confidence: 0.99110013

00:23:04.865 --> 00:23:07.264 in Iran with OUD actively
NOTE Confidence: 0.99110013

00:23:07.264 --> 00:23:08.164 using opium
NOTE Confidence: 0.9609981

00:23:08.465 --> 00:23:09.585 who presented to the ED
NOTE Confidence: 0.9609981

00:23:09.585 --> 00:23:10.705 for acute pain from an
NOTE Confidence: 0.9609981

00:23:10.705 --> 00:23:11.764 orthopedic fracture.
NOTE Confidence: 0.6303199

00:23:12.304 --> 00:23:12.804 Oriclclonidine
NOTE Confidence: 0.98361474

00:23:13.345 --> 00:23:14.885 at zero point two milligrams
NOTE Confidence: 0.98361474

00:23:15.105 --> 00:23:16.705 was found to decrease pain
NOTE Confidence: 0.98361474

00:23:16.705 --> 00:23:18.404 severity up to an hour,

NOTE Confidence: 0.9612303

00:23:19.980 --> 00:23:21.119 compared to placebo.

NOTE Confidence: 0.96535766

00:23:23.340 --> 00:23:24.220 And that's what we found

NOTE Confidence: 0.96535766

00:23:24.220 --> 00:23:25.040 for Keoclonidine.

NOTE Confidence: 0.99475247

00:23:26.220 --> 00:23:27.580 A single RCT with a

NOTE Confidence: 0.99475247

00:23:27.580 --> 00:23:28.720 low risk of bias,

NOTE Confidence: 0.9727978

00:23:29.260 --> 00:23:31.580 conducted among eighty seven, adults

NOTE Confidence: 0.9727978

00:23:31.580 --> 00:23:33.500 with OUD in Iran actively

NOTE Confidence: 0.9727978

00:23:33.500 --> 00:23:35.725 using opium again presented to

NOTE Confidence: 0.9727978

00:23:35.725 --> 00:23:37.164 the ED with acute traumatic

NOTE Confidence: 0.9727978

00:23:37.164 --> 00:23:38.765 or non traumatic limb or

NOTE Confidence: 0.9727978

00:23:38.765 --> 00:23:39.905 abdominal pain.

NOTE Confidence: 0.9766293

00:23:41.244 --> 00:23:42.525 This study found that the

NOTE Confidence: 0.9766293

00:23:42.525 --> 00:23:43.905 combination of I'm,

NOTE Confidence: 0.9802081

00:23:44.525 --> 00:23:46.684 Haldol with I'm midazolam and

NOTE Confidence: 0.9802081

00:23:46.684 --> 00:23:47.505 IV morphine

NOTE Confidence: 0.9334076

00:23:48.109 --> 00:23:49.710 can decrease pain severity up
NOTE Confidence: 0.9334076

00:23:49.710 --> 00:23:50.670 to six hours,
NOTE Confidence: 0.98961335

00:23:51.070 --> 00:23:52.850 compared to IV morphine alone.
NOTE Confidence: 0.99693555

00:23:54.590 --> 00:23:55.890 And then the third intervention,
NOTE Confidence: 0.9747286

00:23:56.990 --> 00:23:58.830 we found a single randomized
NOTE Confidence: 0.9747286

00:23:58.830 --> 00:24:00.109 clinical trial with a low
NOTE Confidence: 0.9747286

00:24:00.109 --> 00:24:01.090 risk of bias,
NOTE Confidence: 0.9560942

00:24:01.915 --> 00:24:03.275 conducted among a hundred and
NOTE Confidence: 0.9560942

00:24:03.275 --> 00:24:05.375 eighty adults with OUD actively
NOTE Confidence: 0.9560942

00:24:05.435 --> 00:24:06.815 using opium in Iran,
NOTE Confidence: 0.9825908

00:24:08.315 --> 00:24:10.575 reporting that IV lidocaine administered
NOTE Confidence: 0.9825908

00:24:10.795 --> 00:24:12.015 during general anesthesia,
NOTE Confidence: 0.96772534

00:24:13.355 --> 00:24:15.615 may decrease postoperative pain severity
NOTE Confidence: 0.96772534

00:24:15.755 --> 00:24:17.950 and full agonist opioid analgesic
NOTE Confidence: 0.96772534

00:24:18.090 --> 00:24:18.990 use compared,
NOTE Confidence: 0.9900373

00:24:19.609 --> 00:24:21.450 to IV ketamine or,

NOTE Confidence: 0.88723505
00:24:21.930 --> 00:24:22.970 placebo. It was a three
NOTE Confidence: 0.88723505
00:24:22.970 --> 00:24:23.710 arm study.
NOTE Confidence: 0.97353476
00:24:26.570 --> 00:24:27.609 So there are many gaps
NOTE Confidence: 0.97353476
00:24:27.609 --> 00:24:29.130 here. I've listed some of
NOTE Confidence: 0.97353476
00:24:29.130 --> 00:24:30.090 them. I'm sure this is
NOTE Confidence: 0.97353476
00:24:30.090 --> 00:24:31.544 not a complete list, But
NOTE Confidence: 0.97353476
00:24:31.544 --> 00:24:32.845 for all of these interventions,
NOTE Confidence: 0.97353476
00:24:33.144 --> 00:24:34.904 the optimal medication dosing and
NOTE Confidence: 0.97353476
00:24:34.904 --> 00:24:36.284 duration remains unclear.
NOTE Confidence: 0.9538271
00:24:36.744 --> 00:24:38.105 Their safety and efficacy in
NOTE Confidence: 0.9538271
00:24:38.105 --> 00:24:39.705 people taking a medication for
NOTE Confidence: 0.9538271
00:24:39.705 --> 00:24:41.865 OUD, notably all three trials
NOTE Confidence: 0.9538271
00:24:41.865 --> 00:24:43.144 I just mentioned, were conducted
NOTE Confidence: 0.9538271
00:24:43.144 --> 00:24:44.924 in people actively using opium.
NOTE Confidence: 0.94940186
00:24:46.109 --> 00:24:47.470 And then the optimal clinical
NOTE Confidence: 0.94940186

00:24:47.470 --> 00:24:48.609 setting or scenario,
NOTE Confidence: 0.9879167

00:24:49.550 --> 00:24:50.590 in terms of what,
NOTE Confidence: 0.9160503

00:24:51.390 --> 00:24:52.130 you know,
NOTE Confidence: 0.9571603

00:24:52.590 --> 00:24:54.290 right, PACU being one example.
NOTE Confidence: 0.96262485

00:24:54.990 --> 00:24:56.590 And then, none of these
NOTE Confidence: 0.96262485

00:24:56.590 --> 00:24:57.975 studies looked at OUD OUD
NOTE Confidence: 0.96262485

00:24:57.975 --> 00:24:58.795 related outcomes.
NOTE Confidence: 0.99942905

00:24:59.335 --> 00:25:00.375 And so that's a notable
NOTE Confidence: 0.99942905

00:25:00.375 --> 00:25:01.595 gap for every intervention
NOTE Confidence: 0.99859405

00:25:02.695 --> 00:25:03.595 listed here.
NOTE Confidence: 0.9990399

00:25:05.335 --> 00:25:06.934 We also came across some
NOTE Confidence: 0.9990399

00:25:06.934 --> 00:25:07.434 interventions
NOTE Confidence: 0.9360563

00:25:07.734 --> 00:25:09.115 with insufficient evidence,
NOTE Confidence: 0.97819114

00:25:09.815 --> 00:25:11.255 and so I've listed some
NOTE Confidence: 0.97819114

00:25:11.255 --> 00:25:12.295 of those here.
NOTE Confidence: 0.9682143

00:25:13.015 --> 00:25:13.515 IT,

NOTE Confidence: 0.85929143
00:25:14.090 --> 00:25:15.790 intra sorry. IT intrathecal,
NOTE Confidence: 0.98277986
00:25:16.890 --> 00:25:17.390 clonidine,
NOTE Confidence: 0.88344085
00:25:18.090 --> 00:25:19.070 IV dexmedetomidine.
NOTE Confidence: 0.98243284
00:25:19.770 --> 00:25:21.070 I always say that wrong.
NOTE Confidence: 0.9464909
00:25:21.690 --> 00:25:23.710 IV ketamine, and then various,
NOTE Confidence: 0.846574
00:25:24.730 --> 00:25:26.430 phlebotomist opioid medications,
NOTE Confidence: 0.99644625
00:25:27.665 --> 00:25:30.225 and our conclusions regarding this
NOTE Confidence: 0.99644625
00:25:30.225 --> 00:25:31.285 group of interventions
NOTE Confidence: 0.98174036
00:25:31.825 --> 00:25:33.365 or these groups of interventions
NOTE Confidence: 0.98174036
00:25:33.505 --> 00:25:35.025 was largely that evidence was
NOTE Confidence: 0.98174036
00:25:35.025 --> 00:25:35.525 insufficient,
NOTE Confidence: 0.99768674
00:25:36.625 --> 00:25:37.765 to make any conclusions.
NOTE Confidence: 0.9608388
00:25:39.520 --> 00:25:40.640 Mostly, I should add, due
NOTE Confidence: 0.9608388
00:25:40.640 --> 00:25:41.300 to heterogeneity
NOTE Confidence: 0.9729255
00:25:41.680 --> 00:25:43.300 in either the study population,
NOTE Confidence: 0.9951368

00:25:44.880 --> 00:25:45.859 the comparator,
NOTE Confidence: 0.9657813

00:25:46.559 --> 00:25:47.780 or outcomes evaluated,
NOTE Confidence: 0.98989123

00:25:49.200 --> 00:25:50.960 among studies reporting on these
NOTE Confidence: 0.98989123

00:25:50.960 --> 00:25:51.460 interventions.
NOTE Confidence: 0.98456544

00:25:55.955 --> 00:25:56.835 I do wanna spend a
NOTE Confidence: 0.98456544

00:25:56.835 --> 00:25:58.355 minute touching on IV ketamine
NOTE Confidence: 0.98456544

00:25:58.355 --> 00:25:59.315 because I feel this is
NOTE Confidence: 0.98456544

00:25:59.315 --> 00:25:59.815 often,
NOTE Confidence: 0.99590796

00:26:00.274 --> 00:26:01.734 an intervention of interest.
NOTE Confidence: 0.9905689

00:26:04.195 --> 00:26:05.875 And so for for this,
NOTE Confidence: 0.9905689

00:26:06.195 --> 00:26:07.875 intervention in particular, we did
NOTE Confidence: 0.9905689

00:26:07.875 --> 00:26:09.335 find three RCTs,
NOTE Confidence: 0.9943348

00:26:10.050 --> 00:26:12.130 two observational studies, and ten
NOTE Confidence: 0.9943348

00:26:12.130 --> 00:26:12.950 case reports,
NOTE Confidence: 0.98611945

00:26:13.570 --> 00:26:14.850 just reporting on the use
NOTE Confidence: 0.98611945

00:26:14.850 --> 00:26:16.870 of IV ketamine for pain

NOTE Confidence: 0.99889284
00:26:17.250 --> 00:26:18.470 in people with OUD.
NOTE Confidence: 0.9996197
00:26:19.170 --> 00:26:20.310 All three RCTs
NOTE Confidence: 0.920709
00:26:20.610 --> 00:26:21.270 were conducted,
NOTE Confidence: 0.8997321
00:26:23.355 --> 00:26:25.215 among predominantly male participants.
NOTE Confidence: 0.9992229
00:26:25.755 --> 00:26:26.575 Two included
NOTE Confidence: 0.97477484
00:26:26.875 --> 00:26:28.955 participants actively using opium, and
NOTE Confidence: 0.97477484
00:26:28.955 --> 00:26:30.335 one included participants,
NOTE Confidence: 0.98790693
00:26:31.835 --> 00:26:33.295 on methadone for OUD.
NOTE Confidence: 0.895267
00:26:33.755 --> 00:26:34.655 Pain conditions,
NOTE Confidence: 0.964606
00:26:35.750 --> 00:26:37.529 reported on included limb fractures
NOTE Confidence: 0.964606
00:26:37.590 --> 00:26:39.590 and postoperative pain, and then
NOTE Confidence: 0.964606
00:26:39.590 --> 00:26:41.909 all compared IV ketamine alone
NOTE Confidence: 0.964606
00:26:41.909 --> 00:26:43.190 or with an IV phle
NOTE Confidence: 0.964606
00:26:43.190 --> 00:26:45.350 agonist opioid compared to an
NOTE Confidence: 0.964606
00:26:45.350 --> 00:26:47.369 IV phle agonist opioid alone,
NOTE Confidence: 0.99848974

00:26:48.149 --> 00:26:49.529 and findings were mixed.
NOTE Confidence: 0.99962246

00:26:51.535 --> 00:26:52.355 In general,
NOTE Confidence: 0.9949337

00:26:53.215 --> 00:26:55.455 there were reported improvements in
NOTE Confidence: 0.9949337

00:26:55.455 --> 00:26:57.055 pain severity up to twenty
NOTE Confidence: 0.9949337

00:26:57.055 --> 00:26:59.235 four hours following medication administration.
NOTE Confidence: 0.9459685

00:27:01.775 --> 00:27:03.535 I'm sorry. Reported improvements were
NOTE Confidence: 0.9459685

00:27:03.535 --> 00:27:05.075 similar or improved,
NOTE Confidence: 0.97762346

00:27:05.880 --> 00:27:07.480 among those who received IV
NOTE Confidence: 0.97762346

00:27:07.480 --> 00:27:09.320 ketamine compared to the IV
NOTE Confidence: 0.97762346

00:27:09.320 --> 00:27:10.540 phlebotomist opioid,
NOTE Confidence: 0.99890023

00:27:11.080 --> 00:27:12.359 that being either morphine or
NOTE Confidence: 0.99890023

00:27:12.359 --> 00:27:12.859 fentanyl.
NOTE Confidence: 0.975612

00:27:13.880 --> 00:27:16.220 However, participants who received ketamine
NOTE Confidence: 0.975612

00:27:16.440 --> 00:27:18.040 also reported higher rates of
NOTE Confidence: 0.975612

00:27:18.040 --> 00:27:18.940 adverse events,
NOTE Confidence: 0.8951134

00:27:19.675 --> 00:27:20.955 and I've listed the ones

NOTE Confidence: 0.8951134

00:27:20.955 --> 00:27:21.615 specifically evaluated

NOTE Confidence: 0.9635941

00:27:22.555 --> 00:27:24.895 here. So diplopia, nystagmus, agitation,

NOTE Confidence: 0.99961585

00:27:25.435 --> 00:27:26.335 loss of consciousness,

NOTE Confidence: 0.9952328

00:27:26.715 --> 00:27:28.175 nausea, vomiting, or confusion.

NOTE Confidence: 0.98327005

00:27:35.119 --> 00:27:36.240 And so we ended up

NOTE Confidence: 0.98327005

00:27:36.240 --> 00:27:38.659 concluding from the systematic review

NOTE Confidence: 0.98327005

00:27:38.799 --> 00:27:39.299 that,

NOTE Confidence: 0.992341

00:27:40.080 --> 00:27:41.440 the scenarios in which the

NOTE Confidence: 0.992341

00:27:41.440 --> 00:27:42.960 benefits exceed the risks of

NOTE Confidence: 0.992341

00:27:42.960 --> 00:27:44.179 ketamine are unclear.

NOTE Confidence: 0.99150145

00:27:46.480 --> 00:27:47.220 And so

NOTE Confidence: 0.99263364

00:27:47.775 --> 00:27:48.755 that's a notable

NOTE Confidence: 0.99931824

00:27:59.695 --> 00:28:00.445 gap. Okay.

NOTE Confidence: 0.9885767

00:28:00.900 --> 00:28:01.880 And then lastly,

NOTE Confidence: 0.9792034

00:28:02.580 --> 00:28:03.540 I did wanna spend a

NOTE Confidence: 0.9792034

00:28:03.540 --> 00:28:05.300 minute touching on full agonist
NOTE Confidence: 0.9792034

00:28:05.300 --> 00:28:07.220 opioid medications, and Melissa can
NOTE Confidence: 0.9792034

00:28:07.220 --> 00:28:08.980 attest to this as well
NOTE Confidence: 0.9792034

00:28:08.980 --> 00:28:10.600 as Leila. She's still,
NOTE Confidence: 0.9869617

00:28:11.060 --> 00:28:12.180 here and listening. But we
NOTE Confidence: 0.9869617

00:28:12.180 --> 00:28:13.460 had a really difficult time
NOTE Confidence: 0.9869617

00:28:13.460 --> 00:28:14.875 making sense of our full
NOTE Confidence: 0.9869617

00:28:14.875 --> 00:28:15.934 agonist opioid
NOTE Confidence: 0.9558271

00:28:16.395 --> 00:28:17.535 medication data,
NOTE Confidence: 0.99565285

00:28:18.795 --> 00:28:20.395 in terms of informing our
NOTE Confidence: 0.99565285

00:28:20.395 --> 00:28:21.695 our systematic review.
NOTE Confidence: 0.99329555

00:28:22.715 --> 00:28:23.455 And so
NOTE Confidence: 0.994027

00:28:24.155 --> 00:28:25.515 I'm just gonna summarize a
NOTE Confidence: 0.994027

00:28:25.515 --> 00:28:26.234 little bit.
NOTE Confidence: 0.995989

00:28:26.795 --> 00:28:29.355 We found four randomized clinical
NOTE Confidence: 0.995989

00:28:29.355 --> 00:28:31.930 trials, twenty five observational studies

NOTE Confidence: 0.8980197
00:28:32.310 --> 00:28:34.470 that described any oral or
NOTE Confidence: 0.8980197
00:28:34.470 --> 00:28:36.150 IV phle agonist opioid.
NOTE Confidence: 0.9422441
00:28:38.790 --> 00:28:40.790 Three RCTs and six studies
NOTE Confidence: 0.9422441
00:28:40.790 --> 00:28:42.250 described IV PCA,
NOTE Confidence: 0.9926909
00:28:42.675 --> 00:28:43.655 and then the settings,
NOTE Confidence: 0.9898795
00:28:44.355 --> 00:28:46.535 ranged from nonoperative to postoperative,
NOTE Confidence: 0.99845725
00:28:46.835 --> 00:28:47.955 but they were all hospital
NOTE Confidence: 0.99845725
00:28:47.955 --> 00:28:48.455 settings.
NOTE Confidence: 0.99943835
00:28:50.355 --> 00:28:52.055 Importantly, study designs
NOTE Confidence: 0.9845783
00:28:52.355 --> 00:28:53.635 varied as to whether the
NOTE Confidence: 0.9845783
00:28:53.635 --> 00:28:55.235 full agonist opioid was the
NOTE Confidence: 0.9845783
00:28:55.235 --> 00:28:56.935 intervention or the outcome.
NOTE Confidence: 0.98042744
00:28:57.649 --> 00:28:58.850 And notably, a lot of
NOTE Confidence: 0.98042744
00:28:58.850 --> 00:29:01.269 studies used full agonist opioid
NOTE Confidence: 0.92481905
00:29:02.929 --> 00:29:04.149 dosing or requirement
NOTE Confidence: 0.9921484

00:29:04.610 --> 00:29:06.130 as a proxy for pain
NOTE Confidence: 0.9921484

00:29:06.130 --> 00:29:06.630 severity,
NOTE Confidence: 0.97881514

00:29:07.250 --> 00:29:08.630 in terms of their evaluation
NOTE Confidence: 0.97881514

00:29:08.690 --> 00:29:09.429 of a different
NOTE Confidence: 0.9193899

00:29:09.745 --> 00:29:10.245 intervention.
NOTE Confidence: 0.998419

00:29:11.184 --> 00:29:12.385 And so it was kind
NOTE Confidence: 0.998419

00:29:12.385 --> 00:29:13.184 of a lot for us
NOTE Confidence: 0.998419

00:29:13.184 --> 00:29:14.245 to make sense of.
NOTE Confidence: 0.9992188

00:29:18.865 --> 00:29:19.904 What I was able to
NOTE Confidence: 0.9992188

00:29:19.904 --> 00:29:21.505 do is to summarize the
NOTE Confidence: 0.9992188

00:29:21.505 --> 00:29:23.044 range of doses reported
NOTE Confidence: 0.8736156

00:29:23.345 --> 00:29:24.164 by setting,
NOTE Confidence: 0.9762844

00:29:24.860 --> 00:29:25.900 and then the n here
NOTE Confidence: 0.9762844

00:29:25.900 --> 00:29:26.700 you see on the left
NOTE Confidence: 0.9762844

00:29:26.700 --> 00:29:28.060 hand column is the number
NOTE Confidence: 0.9762844

00:29:28.060 --> 00:29:28.880 of studies,

NOTE Confidence: 0.99745876

00:29:29.820 --> 00:29:31.120 informing that range

NOTE Confidence: 0.9873562

00:29:32.300 --> 00:29:33.020 that you see in the

NOTE Confidence: 0.9873562

00:29:33.020 --> 00:29:34.000 right hand column.

NOTE Confidence: 0.98207545

00:29:35.340 --> 00:29:36.080 And so

NOTE Confidence: 0.96807647

00:29:38.665 --> 00:29:41.085 in nonoperative settings, the dosing

NOTE Confidence: 0.96807647

00:29:41.225 --> 00:29:43.065 dosing range from eighteen to

NOTE Confidence: 0.96807647

00:29:43.065 --> 00:29:45.785 seventeen morphine milligram equivalents per

NOTE Confidence: 0.96807647

00:29:45.785 --> 00:29:47.065 day of PO and IV

NOTE Confidence: 0.96807647

00:29:47.065 --> 00:29:48.205 full agonist opioids.

NOTE Confidence: 0.98660713

00:29:48.665 --> 00:29:50.205 In postoperative settings,

NOTE Confidence: 0.96739674

00:29:50.820 --> 00:29:51.559 twenty studies,

NOTE Confidence: 0.93889594

00:29:52.740 --> 00:29:54.500 provided a range from forty

NOTE Confidence: 0.93889594

00:29:54.500 --> 00:29:56.500 four to seven hundred ninety

NOTE Confidence: 0.93889594

00:29:56.500 --> 00:29:57.000 three

NOTE Confidence: 0.96585166

00:29:57.380 --> 00:29:59.299 morphine milligram equivalents per day

NOTE Confidence: 0.96585166

00:29:59.299 --> 00:30:00.519 of phalagonist opioids.
NOTE Confidence: 0.99405336

00:30:01.460 --> 00:30:03.240 Among two studies that reported
NOTE Confidence: 0.99405336

00:30:03.539 --> 00:30:04.039 the,
NOTE Confidence: 0.93963736

00:30:04.659 --> 00:30:06.225 phalagonist opioid dose,
NOTE Confidence: 0.9742105

00:30:07.585 --> 00:30:09.924 among people receiving PCAs only.
NOTE Confidence: 0.9742105

00:30:10.145 --> 00:30:11.345 The range was one fifty
NOTE Confidence: 0.9742105

00:30:11.345 --> 00:30:12.544 five to two eighty two
NOTE Confidence: 0.9742105

00:30:12.544 --> 00:30:13.765 MMEs per day.
NOTE Confidence: 0.99730897

00:30:14.465 --> 00:30:15.205 And then
NOTE Confidence: 0.9863694

00:30:15.585 --> 00:30:17.424 broken down by population, people
NOTE Confidence: 0.9863694

00:30:17.424 --> 00:30:18.945 taking methadone or people taking
NOTE Confidence: 0.9863694

00:30:18.945 --> 00:30:19.445 buprenorphine,
NOTE Confidence: 0.97702503

00:30:20.780 --> 00:30:22.780 People taking methadone, nine studies
NOTE Confidence: 0.97702503

00:30:22.780 --> 00:30:24.299 provided a range of five
NOTE Confidence: 0.97702503

00:30:24.299 --> 00:30:25.660 to six hundred eighty eight
NOTE Confidence: 0.97702503

00:30:25.660 --> 00:30:27.500 MMEs per day, and people

NOTE Confidence: 0.97702503
00:30:27.500 --> 00:30:28.240 taking buprenorphine,
NOTE Confidence: 0.98801756
00:30:28.620 --> 00:30:30.860 sixteen studies provided a range
NOTE Confidence: 0.98801756
00:30:30.860 --> 00:30:31.600 of eighteen
NOTE Confidence: 0.9934548
00:30:31.900 --> 00:30:33.020 to three hundred and eight
NOTE Confidence: 0.9934548
00:30:33.020 --> 00:30:34.160 MMEs per day.
NOTE Confidence: 0.96868783
00:30:36.755 --> 00:30:37.794 As you can note, the
NOTE Confidence: 0.96868783
00:30:37.794 --> 00:30:39.815 range is quite wide regardless
NOTE Confidence: 0.96868783
00:30:39.875 --> 00:30:41.394 of setting your population. And
NOTE Confidence: 0.96868783
00:30:41.394 --> 00:30:41.975 I think,
NOTE Confidence: 0.97325903
00:30:42.595 --> 00:30:43.875 when thinking about this, it's
NOTE Confidence: 0.97325903
00:30:43.875 --> 00:30:45.315 important to note that studies
NOTE Confidence: 0.97325903
00:30:45.315 --> 00:30:46.674 vary not only in the
NOTE Confidence: 0.97325903
00:30:46.674 --> 00:30:48.135 type of acute pain studied
NOTE Confidence: 0.97325903
00:30:48.355 --> 00:30:49.575 as well as the method
NOTE Confidence: 0.95785016
00:30:49.970 --> 00:30:51.170 they use to calculate the
NOTE Confidence: 0.95785016

00:30:51.170 --> 00:30:52.530 MME, as in whether or
NOTE Confidence: 0.95785016

00:30:52.530 --> 00:30:53.970 not they included the methadone
NOTE Confidence: 0.95785016

00:30:53.970 --> 00:30:54.710 or the buprenorphine
NOTE Confidence: 0.8642471

00:30:55.010 --> 00:30:55.510 respectively
NOTE Confidence: 0.92691

00:30:55.810 --> 00:30:57.270 in their MME calculations,
NOTE Confidence: 0.9882366

00:30:57.890 --> 00:30:59.910 and that this precluded conclusions
NOTE Confidence: 0.9882366

00:30:59.970 --> 00:31:00.470 regarding,
NOTE Confidence: 0.9986442

00:31:01.570 --> 00:31:03.250 any type of summative conclusion
NOTE Confidence: 0.9986442

00:31:03.250 --> 00:31:04.290 we could make based on
NOTE Confidence: 0.9986442

00:31:04.290 --> 00:31:05.190 the data provided.
NOTE Confidence: 0.9790059

00:31:08.045 --> 00:31:09.325 Lastly, if we have enough
NOTE Confidence: 0.9790059

00:31:09.325 --> 00:31:10.205 time, it looks like we
NOTE Confidence: 0.9790059

00:31:10.205 --> 00:31:10.685 do.
NOTE Confidence: 0.9959401

00:31:11.165 --> 00:31:12.125 I wanted to make a
NOTE Confidence: 0.9959401

00:31:12.125 --> 00:31:12.845 quick note,
NOTE Confidence: 0.99800473

00:31:13.245 --> 00:31:13.745 about

NOTE Confidence: 0.99323946

00:31:14.125 --> 00:31:16.125 some studies directly compared the

NOTE Confidence: 0.99323946

00:31:16.125 --> 00:31:18.220 full agonist opioid dosing between

NOTE Confidence: 0.99323946

00:31:18.220 --> 00:31:20.000 people taking methadone and buprenorphine,

NOTE Confidence: 0.99323946

00:31:20.139 --> 00:31:21.019 and this was one of

NOTE Confidence: 0.99323946

00:31:21.019 --> 00:31:22.220 our questions when we set

NOTE Confidence: 0.99323946

00:31:22.220 --> 00:31:23.759 out for the systematic review.

NOTE Confidence: 0.99475986

00:31:25.340 --> 00:31:26.620 And for the most part,

NOTE Confidence: 0.99475986

00:31:26.620 --> 00:31:28.080 they found that full agonist

NOTE Confidence: 0.99475986

00:31:28.139 --> 00:31:29.980 opioid dosing generally did not

NOTE Confidence: 0.99475986

00:31:29.980 --> 00:31:31.679 differ between these two populations,

NOTE Confidence: 0.99866855

00:31:32.955 --> 00:31:35.035 with two exceptions in terms

NOTE Confidence: 0.99866855

00:31:35.035 --> 00:31:36.575 of observational studies.

NOTE Confidence: 0.9967976

00:31:37.115 --> 00:31:38.715 The first was a,

NOTE Confidence: 0.98365766

00:31:41.035 --> 00:31:42.495 a low risk of bias,

NOTE Confidence: 0.99848074

00:31:43.914 --> 00:31:44.414 comparative

NOTE Confidence: 0.99797887

00:31:45.289 --> 00:31:46.830 observational cohort study
NOTE Confidence: 0.92967325

00:31:47.130 --> 00:31:48.730 that looked at postoperative full
NOTE Confidence: 0.92967325

00:31:48.730 --> 00:31:49.230 agonist
NOTE Confidence: 0.97084826

00:31:50.090 --> 00:31:51.690 opioid use between a hundred
NOTE Confidence: 0.97084826

00:31:51.690 --> 00:31:52.890 and ninety five people on
NOTE Confidence: 0.97084826

00:31:52.890 --> 00:31:53.390 buprenorphine
NOTE Confidence: 0.8887178

00:31:53.770 --> 00:31:55.150 eighty percent for OUD
NOTE Confidence: 0.9577909

00:31:55.770 --> 00:31:57.289 and seven hundred and thirty
NOTE Confidence: 0.9577909

00:31:57.289 --> 00:31:59.049 three people on methadone for
NOTE Confidence: 0.9577909

00:31:59.049 --> 00:31:59.549 OUD.
NOTE Confidence: 0.9349812

00:31:59.975 --> 00:32:01.255 And they found that those
NOTE Confidence: 0.9349812

00:32:01.255 --> 00:32:03.335 taking buprenorphine had lower full
NOTE Confidence: 0.9349812

00:32:03.335 --> 00:32:05.515 agonist opioid use across multiple,
NOTE Confidence: 0.9349812

00:32:05.735 --> 00:32:07.335 I think over five different
NOTE Confidence: 0.9349812

00:32:07.335 --> 00:32:07.835 sensitivity
NOTE Confidence: 0.50458884

00:32:08.135 --> 00:32:08.635 analyses,

NOTE Confidence: 0.9815145
00:32:09.095 --> 00:32:10.215 and one in which they
NOTE Confidence: 0.9815145
00:32:10.215 --> 00:32:12.535 compared people with OUD taking
NOTE Confidence: 0.9815145
00:32:12.535 --> 00:32:13.035 buprenorphine
NOTE Confidence: 0.99916947
00:32:13.570 --> 00:32:15.090 specifically at doses greater than
NOTE Confidence: 0.99916947
00:32:15.090 --> 00:32:16.070 sixteen milligrams
NOTE Confidence: 0.9899948
00:32:16.610 --> 00:32:18.470 per day compared to people
NOTE Confidence: 0.9899948
00:32:18.690 --> 00:32:19.510 taking methadone
NOTE Confidence: 0.98046786
00:32:19.810 --> 00:32:21.590 with at least sixty milligrams
NOTE Confidence: 0.98046786
00:32:21.650 --> 00:32:22.390 per day,
NOTE Confidence: 0.97675353
00:32:23.010 --> 00:32:24.210 and then all of whom
NOTE Confidence: 0.97675353
00:32:24.210 --> 00:32:25.910 continued their baseline MOUD.
NOTE Confidence: 0.98984456
00:32:27.044 --> 00:32:28.644 The second study was,
NOTE Confidence: 0.971676
00:32:29.684 --> 00:32:30.565 a bit older. I don't
NOTE Confidence: 0.971676
00:32:30.565 --> 00:32:31.524 remember the year. I wanna
NOTE Confidence: 0.971676
00:32:31.524 --> 00:32:32.664 say two thousand seven.
NOTE Confidence: 0.84703106

00:32:33.524 --> 00:32:34.504 Was an observational,
NOTE Confidence: 0.953388

00:32:35.365 --> 00:32:36.884 cohort study of forty seven
NOTE Confidence: 0.953388

00:32:36.884 --> 00:32:38.725 pregnant people taking methadone and
NOTE Confidence: 0.953388

00:32:38.725 --> 00:32:40.904 ninety nine people taking bupendorfine
NOTE Confidence: 0.93199044

00:32:41.890 --> 00:32:43.910 for OUD who underwent cesarean
NOTE Confidence: 0.93199044

00:32:43.970 --> 00:32:44.470 section
NOTE Confidence: 0.9614093

00:32:44.850 --> 00:32:46.370 and reported that higher,
NOTE Confidence: 0.9358536

00:32:46.770 --> 00:32:48.610 baseline doses of methadone but
NOTE Confidence: 0.9358536

00:32:48.610 --> 00:32:49.350 not buprenorphine
NOTE Confidence: 0.9838493

00:32:49.730 --> 00:32:51.510 were associated with higher inpatient
NOTE Confidence: 0.9838493

00:32:51.570 --> 00:32:53.190 full agonist opioid use.
NOTE Confidence: 0.9788141

00:32:56.355 --> 00:32:57.095 And so
NOTE Confidence: 0.9368088

00:32:58.115 --> 00:32:59.255 primary gaps,
NOTE Confidence: 0.97688735

00:32:59.555 --> 00:33:00.855 again, there are many,
NOTE Confidence: 0.9657395

00:33:01.315 --> 00:33:02.355 but as it relates to
NOTE Confidence: 0.9657395

00:33:02.355 --> 00:33:03.975 full agonist opioid medications,

NOTE Confidence: 0.9681545
00:33:05.155 --> 00:33:06.535 we don't understand,
NOTE Confidence: 0.97610635
00:33:07.075 --> 00:33:07.575 or
NOTE Confidence: 0.9300904
00:33:08.450 --> 00:33:09.650 notable gaps, I guess you
NOTE Confidence: 0.9300904
00:33:09.650 --> 00:33:11.350 could say include which medications
NOTE Confidence: 0.83086675
00:33:11.650 --> 00:33:12.870 dosing and durations
NOTE Confidence: 0.936032
00:33:13.330 --> 00:33:14.530 might be best for which,
NOTE Confidence: 0.936032
00:33:14.850 --> 00:33:16.470 patient and clinical scenario.
NOTE Confidence: 0.9491394
00:33:17.090 --> 00:33:19.170 No studies have evaluated opioid
NOTE Confidence: 0.9491394
00:33:19.170 --> 00:33:21.570 use disorder outcomes associated with
NOTE Confidence: 0.9491394
00:33:21.570 --> 00:33:23.085 the administration of FOL against
NOTE Confidence: 0.9491394
00:33:23.164 --> 00:33:25.005 agonist opioid medications during acute
NOTE Confidence: 0.9491394
00:33:25.005 --> 00:33:26.765 pain. And very few studies
NOTE Confidence: 0.9491394
00:33:26.765 --> 00:33:28.365 compared the impact of full
NOTE Confidence: 0.9491394
00:33:28.365 --> 00:33:29.745 agonist opioid medications
NOTE Confidence: 0.9848543
00:33:30.284 --> 00:33:31.904 on pain or OUD outcomes
NOTE Confidence: 0.9848543

00:33:31.965 --> 00:33:34.044 between different MOUD groups except
NOTE Confidence: 0.9848543

00:33:34.044 --> 00:33:35.424 the two studies I mentioned.
NOTE Confidence: 0.9862415

00:33:45.270 --> 00:33:46.250 And then lastly,
NOTE Confidence: 0.94544274

00:33:46.630 --> 00:33:47.530 worth note,
NOTE Confidence: 0.9941206

00:33:48.550 --> 00:33:50.090 it's worth talking about setting.
NOTE Confidence: 0.97646487

00:33:50.465 --> 00:33:52.025 And so this was,
NOTE Confidence: 0.9904577

00:33:52.845 --> 00:33:54.625 a very fun figure that
NOTE Confidence: 0.9904577

00:33:54.625 --> 00:33:56.245 one of our coauthors made,
NOTE Confidence: 0.9997778

00:33:56.945 --> 00:33:59.125 breaking down the different interventions
NOTE Confidence: 0.99515915

00:33:59.825 --> 00:34:01.105 that we found in the
NOTE Confidence: 0.99515915

00:34:01.105 --> 00:34:02.165 systematic review,
NOTE Confidence: 0.9671692

00:34:02.785 --> 00:34:03.525 by setting,
NOTE Confidence: 0.9449277

00:34:04.930 --> 00:34:06.290 similar to an evidence map,
NOTE Confidence: 0.9449277

00:34:06.290 --> 00:34:07.430 I guess you could say.
NOTE Confidence: 0.98021656

00:34:08.130 --> 00:34:09.810 And it's worth noting. So,
NOTE Confidence: 0.98021656

00:34:10.210 --> 00:34:11.910 you you're seeing four quadrants.

NOTE Confidence: 0.98021656

00:34:12.050 --> 00:34:13.270 The top left is,

NOTE Confidence: 0.9501377

00:34:14.050 --> 00:34:15.989 interventions that looked at postoperative

NOTE Confidence: 0.9501377

00:34:16.210 --> 00:34:17.510 pain in hospital settings.

NOTE Confidence: 0.9813493

00:34:18.005 --> 00:34:19.445 Top right are the studies

NOTE Confidence: 0.9813493

00:34:19.445 --> 00:34:20.645 looking at post labor or

NOTE Confidence: 0.9813493

00:34:20.645 --> 00:34:22.245 post cesarean section pain in

NOTE Confidence: 0.9813493

00:34:22.245 --> 00:34:23.225 hospital settings.

NOTE Confidence: 0.9722154

00:34:23.844 --> 00:34:25.785 Bottom left, other acute pain

NOTE Confidence: 0.9722154

00:34:25.844 --> 00:34:27.605 in hospital or ED settings.

NOTE Confidence: 0.9722154

00:34:27.605 --> 00:34:28.505 And then lastly,

NOTE Confidence: 0.9961625

00:34:29.445 --> 00:34:30.885 a group looking specifically at

NOTE Confidence: 0.9961625

00:34:30.885 --> 00:34:33.285 orthopedic injuries in hospital or

NOTE Confidence: 0.9961625

00:34:33.285 --> 00:34:33.810 ED settings.

NOTE Confidence: 0.7161036

00:34:35.410 --> 00:34:36.230 And importantly,

NOTE Confidence: 0.99575365

00:34:36.930 --> 00:34:37.890 we did not find a

NOTE Confidence: 0.99575365

00:34:37.890 --> 00:34:39.810 single comparative study looking at

NOTE Confidence: 0.99575365

00:34:39.810 --> 00:34:41.650 any acute pain intervention in

NOTE Confidence: 0.99575365

00:34:41.650 --> 00:34:43.330 people with OUD in any

NOTE Confidence: 0.99575365

00:34:43.330 --> 00:34:44.469 outpatient setting.

NOTE Confidence: 0.9894253

00:34:45.330 --> 00:34:46.770 So every comparative study we

NOTE Confidence: 0.9894253

00:34:46.770 --> 00:34:48.630 included in the systematic review

NOTE Confidence: 0.80697334

00:34:48.930 --> 00:34:50.145 was conducted in hospital

NOTE Confidence: 0.97597736

00:34:52.205 --> 00:34:53.805 setting. Although we did not,

NOTE Confidence: 0.97597736

00:34:53.965 --> 00:34:54.925 I should mention, although we

NOTE Confidence: 0.97597736

00:34:54.925 --> 00:34:56.445 did not look specifically for

NOTE Confidence: 0.97597736

00:34:56.445 --> 00:34:58.285 hospital settings, our our our

NOTE Confidence: 0.97597736

00:34:58.285 --> 00:34:59.885 search criteria was to include

NOTE Confidence: 0.97597736

00:34:59.885 --> 00:35:00.925 all, and this is just

NOTE Confidence: 0.97597736

00:35:00.925 --> 00:35:01.825 what we found.

NOTE Confidence: 0.9991142

00:35:08.520 --> 00:35:09.640 And then I'll just close

NOTE Confidence: 0.9991142

00:35:09.640 --> 00:35:10.040 with,

NOTE Confidence: 0.9893225
00:35:10.760 --> 00:35:12.359 just perhaps an anecdote that
NOTE Confidence: 0.9893225
00:35:12.359 --> 00:35:13.239 when we set out to
NOTE Confidence: 0.9893225
00:35:13.239 --> 00:35:15.099 do the systematic review, we
NOTE Confidence: 0.9893225
00:35:15.320 --> 00:35:16.599 convened a group of expert
NOTE Confidence: 0.9893225
00:35:16.599 --> 00:35:18.280 clinicians and researchers in this
NOTE Confidence: 0.9893225
00:35:18.280 --> 00:35:19.885 area, and we did identify
NOTE Confidence: 0.999148
00:35:20.185 --> 00:35:21.704 a number of research questions
NOTE Confidence: 0.999148
00:35:21.704 --> 00:35:23.005 we thought might be helpful
NOTE Confidence: 0.9931164
00:35:23.385 --> 00:35:25.085 to answer with the systematic
NOTE Confidence: 0.9931164
00:35:25.145 --> 00:35:26.665 review. We ended up,
NOTE Confidence: 0.9788079
00:35:27.145 --> 00:35:28.585 structuring our key questions a
NOTE Confidence: 0.9788079
00:35:28.585 --> 00:35:29.945 bit differently, but I do
NOTE Confidence: 0.9788079
00:35:29.945 --> 00:35:31.165 think it's worth mentioning,
NOTE Confidence: 0.97880334
00:35:31.820 --> 00:35:32.940 that, you know, these are
NOTE Confidence: 0.97880334
00:35:32.940 --> 00:35:34.540 two notable questions I've pulled
NOTE Confidence: 0.97880334

00:35:34.540 --> 00:35:35.980 on the screen here that
NOTE Confidence: 0.97880334

00:35:35.980 --> 00:35:37.260 our expert group had thought
NOTE Confidence: 0.97880334

00:35:37.260 --> 00:35:39.260 it would be useful to,
NOTE Confidence: 0.96205425

00:35:39.980 --> 00:35:41.900 speak out evidence on, and
NOTE Confidence: 0.96205425

00:35:41.900 --> 00:35:43.200 we did not find anything.
NOTE Confidence: 0.9809577

00:35:46.125 --> 00:35:48.765 Right. So, for people with
NOTE Confidence: 0.9809577

00:35:48.765 --> 00:35:49.965 opioid use disorder who are
NOTE Confidence: 0.9809577

00:35:49.965 --> 00:35:51.105 not taking a medication,
NOTE Confidence: 0.9528636

00:35:51.645 --> 00:35:52.125 does,
NOTE Confidence: 0.9756711

00:35:52.605 --> 00:35:53.665 MOUD initiation
NOTE Confidence: 0.9953518

00:35:54.205 --> 00:35:55.585 provide effective analgesia
NOTE Confidence: 0.9916767

00:35:56.045 --> 00:35:57.825 during periods of acute pain?
NOTE Confidence: 0.83139133

00:35:58.469 --> 00:35:59.210 And then secondly,
NOTE Confidence: 0.94278497

00:35:59.670 --> 00:36:01.270 bit more broadly, how do
NOTE Confidence: 0.94278497

00:36:01.270 --> 00:36:03.510 acute pain management strategies impact
NOTE Confidence: 0.94278497

00:36:03.510 --> 00:36:04.570 OUD outcomes?

NOTE Confidence: 0.99788225

00:36:05.910 --> 00:36:06.790 And I think that's an

NOTE Confidence: 0.99788225

00:36:06.790 --> 00:36:08.170 important evidence gap.

NOTE Confidence: 0.9957534

00:36:11.835 --> 00:36:12.494 And so

NOTE Confidence: 0.99907863

00:36:12.955 --> 00:36:14.474 that rounds out the gaps

NOTE Confidence: 0.99907863

00:36:14.474 --> 00:36:15.614 that we had identified.

NOTE Confidence: 0.94110036

00:36:16.075 --> 00:36:17.515 I see a few chats

NOTE Confidence: 0.94110036

00:36:17.515 --> 00:36:18.395 look like they've come in,

NOTE Confidence: 0.94110036

00:36:18.395 --> 00:36:19.275 but I haven't been able

NOTE Confidence: 0.94110036

00:36:19.275 --> 00:36:20.474 to look at them. Yeah.

NOTE Confidence: 0.94110036

00:36:20.474 --> 00:36:22.155 No. No. No. No. Welcome

NOTE Confidence: 0.94110036

00:36:22.155 --> 00:36:23.915 questions. Great. Thank you, Michelle.

NOTE Confidence: 0.94110036

00:36:23.915 --> 00:36:24.734 Thank you, Melissa.

NOTE Confidence: 0.95391273

00:36:26.469 --> 00:36:27.430 I'll read some of the

NOTE Confidence: 0.95391273

00:36:27.430 --> 00:36:27.930 questions.

NOTE Confidence: 0.99213195

00:36:28.790 --> 00:36:30.489 Starting off early on,

NOTE Confidence: 0.9659868

00:36:32.469 --> 00:36:34.010 doctor Parker from the emergency
NOTE Confidence: 0.9659868

00:36:34.070 --> 00:36:35.670 department and ASAP. Is there
NOTE Confidence: 0.9659868

00:36:35.670 --> 00:36:37.670 any reported outcome data for
NOTE Confidence: 0.9659868

00:36:37.670 --> 00:36:38.730 use of new
NOTE Confidence: 0.91100323

00:36:39.395 --> 00:36:41.734 non opioid oral pain medications
NOTE Confidence: 0.99874145

00:36:42.515 --> 00:36:43.734 for patients with
NOTE Confidence: 0.997231

00:36:44.355 --> 00:36:46.214 ongoing buprenorphine or methadone
NOTE Confidence: 0.8493457

00:36:46.515 --> 00:36:47.635 and the change of in
NOTE Confidence: 0.8493457

00:36:47.635 --> 00:36:48.135 pain?
NOTE Confidence: 0.75442946

00:36:54.410 --> 00:36:55.550 Non opioid
NOTE Confidence: 0.9735844

00:36:56.010 --> 00:36:57.390 oral pain medications.
NOTE Confidence: 0.7686336

00:36:58.410 --> 00:36:59.609 So please feel free to
NOTE Confidence: 0.7686336

00:36:59.609 --> 00:37:01.050 only read if you wanna
NOTE Confidence: 0.7686336

00:37:01.050 --> 00:37:02.109 clarify. Or
NOTE Confidence: 0.91546065

00:37:08.325 --> 00:37:09.285 I guess I was struck
NOTE Confidence: 0.91546065

00:37:09.285 --> 00:37:10.904 also many of your competitors.

NOTE Confidence: 0.91546065
00:37:11.045 --> 00:37:12.424 I think you included clonidine,
NOTE Confidence: 0.91546065
00:37:12.644 --> 00:37:13.704 aldol, ketamine.
NOTE Confidence: 0.97134304
00:37:14.164 --> 00:37:15.704 I didn't hear any nonsteroidals.
NOTE Confidence: 0.9972446
00:37:17.760 --> 00:37:18.260 No.
NOTE Confidence: 0.9778304
00:37:21.040 --> 00:37:22.340 Yes. I think that's right.
NOTE Confidence: 0.9778304
00:37:22.400 --> 00:37:24.100 Sorry. I had not previously
NOTE Confidence: 0.9920063
00:37:24.560 --> 00:37:25.760 thought of that as its
NOTE Confidence: 0.9920063
00:37:25.760 --> 00:37:27.360 own class of medication missing,
NOTE Confidence: 0.9920063
00:37:27.360 --> 00:37:28.080 but I think I think
NOTE Confidence: 0.9920063
00:37:28.080 --> 00:37:28.980 you are right.
NOTE Confidence: 0.9980554
00:37:30.225 --> 00:37:31.285 And I can tell
NOTE Confidence: 0.9229328
00:37:32.864 --> 00:37:34.725 you perhaps by pulling up
NOTE Confidence: 0.9229328
00:37:34.864 --> 00:37:36.645 this this is our table.
NOTE Confidence: 0.84987384
00:37:40.145 --> 00:37:40.645 Yep.
NOTE Confidence: 0.62337047
00:37:41.185 --> 00:37:42.325 That's single nodal.
NOTE Confidence: 0.9624855

00:37:43.190 --> 00:37:44.310 Yeah. I think there were
NOTE Confidence: 0.9624855

00:37:44.310 --> 00:37:46.010 there were some studies where
NOTE Confidence: 0.931536

00:37:46.790 --> 00:37:47.770 NSAID or
NOTE Confidence: 0.99811906

00:37:48.150 --> 00:37:48.650 acetaminophen
NOTE Confidence: 0.9988437

00:37:48.950 --> 00:37:50.470 may have been combined with
NOTE Confidence: 0.9988437

00:37:50.470 --> 00:37:51.530 one of these other
NOTE Confidence: 0.90180314

00:37:52.310 --> 00:37:53.670 interventions, but not as a
NOTE Confidence: 0.90180314

00:37:53.670 --> 00:37:54.810 standalone intervention.
NOTE Confidence: 0.9915708

00:37:58.025 --> 00:37:59.485 Yes. I think that's right.
NOTE Confidence: 0.8999576

00:38:00.025 --> 00:38:00.825 Yeah. And,
NOTE Confidence: 0.9618393

00:38:01.305 --> 00:38:02.605 Bruce may be referring
NOTE Confidence: 0.85990125

00:38:03.945 --> 00:38:05.545 to, you know, the new
NOTE Confidence: 0.85990125

00:38:05.625 --> 00:38:07.725 new approved non opioid treatment,
NOTE Confidence: 0.7159955

00:38:09.065 --> 00:38:09.565 suvatrogine
NOTE Confidence: 0.7843156

00:38:11.559 --> 00:38:12.219 or Jordanavex.
NOTE Confidence: 0.9337484

00:38:12.920 --> 00:38:14.219 This is a non opioid,

NOTE Confidence: 0.9859072
00:38:15.960 --> 00:38:16.780 pain medication
NOTE Confidence: 0.93332684
00:38:17.160 --> 00:38:18.599 that was recently approved, but
NOTE Confidence: 0.93332684
00:38:18.599 --> 00:38:19.180 I imagine
NOTE Confidence: 0.77296394
00:38:20.280 --> 00:38:21.420 We did not recognize
NOTE Confidence: 0.8337907
00:38:21.719 --> 00:38:23.579 any. No. Yep.
NOTE Confidence: 0.991547
00:38:25.094 --> 00:38:25.335 So,
NOTE Confidence: 0.99449825
00:38:26.055 --> 00:38:26.875 next question,
NOTE Confidence: 0.9809517
00:38:29.175 --> 00:38:30.775 from Adam Seidner. Was there
NOTE Confidence: 0.9809517
00:38:30.775 --> 00:38:32.695 anything in the review about
NOTE Confidence: 0.9809517
00:38:32.695 --> 00:38:33.195 adding
NOTE Confidence: 0.99340665
00:38:33.735 --> 00:38:34.715 digital therapeutics,
NOTE Confidence: 0.8840401
00:38:35.094 --> 00:38:36.235 virtual environments,
NOTE Confidence: 0.9788018
00:38:36.950 --> 00:38:37.850 or any nonpharmacologic
NOTE Confidence: 0.999032
00:38:38.630 --> 00:38:39.130 interventions
NOTE Confidence: 0.9824369
00:38:39.430 --> 00:38:41.050 to the pharmacologic interventions?
NOTE Confidence: 0.99972695

00:38:42.470 --> 00:38:43.690 That's a great question.
NOTE Confidence: 0.9871021

00:38:44.630 --> 00:38:45.990 I apologize. I did not
NOTE Confidence: 0.9871021

00:38:45.990 --> 00:38:47.430 include that here. We came
NOTE Confidence: 0.9871021

00:38:47.430 --> 00:38:48.330 across one,
NOTE Confidence: 0.99942625

00:38:49.755 --> 00:38:50.875 and it was a
NOTE Confidence: 0.9745501

00:38:51.755 --> 00:38:53.515 oh, jeez. Melissa, please correct
NOTE Confidence: 0.9745501

00:38:53.515 --> 00:38:54.395 me if I'm wrong. It
NOTE Confidence: 0.9745501

00:38:54.395 --> 00:38:55.934 was a virtual reality
NOTE Confidence: 0.9597665

00:38:56.234 --> 00:38:57.674 administered. I think it was
NOTE Confidence: 0.9597665

00:38:57.674 --> 00:38:58.335 a mindfulness
NOTE Confidence: 0.9118571

00:38:59.355 --> 00:38:59.855 intervention,
NOTE Confidence: 0.9827495

00:39:00.315 --> 00:39:02.635 but administered using a VR
NOTE Confidence: 0.9827495

00:39:02.635 --> 00:39:03.135 headset,
NOTE Confidence: 0.9899033

00:39:04.370 --> 00:39:05.969 that they did a pre
NOTE Confidence: 0.9899033

00:39:06.210 --> 00:39:07.090 it was it was an
NOTE Confidence: 0.9899033

00:39:07.090 --> 00:39:09.270 observational cohort study with no,

NOTE Confidence: 0.97542566
00:39:10.290 --> 00:39:12.130 comparison group where they looked
NOTE Confidence: 0.97542566
00:39:12.130 --> 00:39:13.410 at this rollout on an
NOTE Confidence: 0.97542566
00:39:13.410 --> 00:39:15.250 orthopedic unit on a in
NOTE Confidence: 0.97542566
00:39:15.250 --> 00:39:16.690 hospital setting and then just
NOTE Confidence: 0.97542566
00:39:16.690 --> 00:39:17.590 kind of reported
NOTE Confidence: 0.99963605
00:39:17.890 --> 00:39:19.244 a bit about pain
NOTE Confidence: 0.9899552
00:39:19.705 --> 00:39:21.305 outcomes prior to rolling out
NOTE Confidence: 0.9899552
00:39:21.305 --> 00:39:23.385 this virtual reality intervention and
NOTE Confidence: 0.9899552
00:39:23.385 --> 00:39:23.885 then,
NOTE Confidence: 0.97269017
00:39:25.785 --> 00:39:26.605 post rollout.
NOTE Confidence: 0.9948861
00:39:27.305 --> 00:39:28.425 And they they did find
NOTE Confidence: 0.9948861
00:39:28.425 --> 00:39:30.045 that pain outcomes were improved
NOTE Confidence: 0.9948861
00:39:30.185 --> 00:39:31.829 after rolling out said,
NOTE Confidence: 0.98989314
00:39:32.450 --> 00:39:33.809 intervention, but that was the
NOTE Confidence: 0.98989314
00:39:33.809 --> 00:39:35.190 only one that we found
NOTE Confidence: 0.7538686

00:39:36.690 --> 00:39:37.430 in conducting
NOTE Confidence: 0.975281

00:39:37.730 --> 00:39:38.230 this,
NOTE Confidence: 0.86890554

00:39:39.329 --> 00:39:40.130 right, this,
NOTE Confidence: 0.9638829

00:39:40.770 --> 00:39:42.390 systematic review. I think,
NOTE Confidence: 0.9520235

00:39:43.594 --> 00:39:44.974 yeah, that brings up another
NOTE Confidence: 0.9520235

00:39:45.035 --> 00:39:45.535 important
NOTE Confidence: 0.98410165

00:39:46.154 --> 00:39:47.755 point or thing to keep
NOTE Confidence: 0.98410165

00:39:47.755 --> 00:39:48.815 in mind. So
NOTE Confidence: 0.9818539

00:39:49.355 --> 00:39:50.875 we were really focused in
NOTE Confidence: 0.9818539

00:39:50.875 --> 00:39:53.194 this systematic review on opioid
NOTE Confidence: 0.9818539

00:39:53.194 --> 00:39:56.015 use disorder, not opioid dependence.
NOTE Confidence: 0.9783479

00:39:56.580 --> 00:39:58.180 So one of the challenges
NOTE Confidence: 0.9783479

00:39:58.180 --> 00:40:00.180 of this systematic review is
NOTE Confidence: 0.9783479

00:40:00.180 --> 00:40:01.160 within the literature,
NOTE Confidence: 0.98051536

00:40:01.780 --> 00:40:03.380 there's a conflation of the
NOTE Confidence: 0.98051536

00:40:03.380 --> 00:40:05.060 two that we found in

NOTE Confidence: 0.98051536

00:40:05.060 --> 00:40:06.520 many of the studies.

NOTE Confidence: 0.991978

00:40:06.980 --> 00:40:08.260 So we really had to

NOTE Confidence: 0.991978

00:40:08.260 --> 00:40:10.200 grapple with this idea of

NOTE Confidence: 0.97280943

00:40:10.765 --> 00:40:12.205 what is the population and

NOTE Confidence: 0.97280943

00:40:12.205 --> 00:40:14.625 clearly defining the population. So

NOTE Confidence: 0.9837821

00:40:14.925 --> 00:40:16.925 is this opioid dependence prescribed

NOTE Confidence: 0.9837821

00:40:16.925 --> 00:40:19.185 long term opioids versus someone

NOTE Confidence: 0.9837821

00:40:19.244 --> 00:40:20.785 with opioid use disorder?

NOTE Confidence: 0.96462375

00:40:21.244 --> 00:40:22.525 And there were actually times

NOTE Confidence: 0.96462375

00:40:22.525 --> 00:40:23.025 when

NOTE Confidence: 0.970087

00:40:23.559 --> 00:40:25.420 some of these studies included

NOTE Confidence: 0.970087

00:40:25.559 --> 00:40:26.460 both populations,

NOTE Confidence: 0.9936798

00:40:27.000 --> 00:40:27.880 and so then we had

NOTE Confidence: 0.9936798

00:40:27.880 --> 00:40:29.000 to decide if we would

NOTE Confidence: 0.9936798

00:40:29.000 --> 00:40:30.920 include the study that had

NOTE Confidence: 0.9936798

00:40:30.920 --> 00:40:31.819 both populations.
NOTE Confidence: 0.99177885

00:40:32.760 --> 00:40:33.980 And so we chose
NOTE Confidence: 0.9566795

00:40:34.680 --> 00:40:36.279 if there were enough people
NOTE Confidence: 0.9566795

00:40:36.279 --> 00:40:37.819 with OUD in the study,
NOTE Confidence: 0.9919238

00:40:38.675 --> 00:40:40.755 we we did choose to
NOTE Confidence: 0.9919238

00:40:40.755 --> 00:40:42.355 include some of those studies,
NOTE Confidence: 0.9919238

00:40:42.355 --> 00:40:43.475 but there were times where
NOTE Confidence: 0.9919238

00:40:43.475 --> 00:40:44.994 it was so unclear that
NOTE Confidence: 0.9919238

00:40:44.994 --> 00:40:46.775 we didn't include that study.
NOTE Confidence: 0.9989737

00:40:47.075 --> 00:40:48.355 So I think there are
NOTE Confidence: 0.9989737

00:40:48.355 --> 00:40:49.175 more studies
NOTE Confidence: 0.99803275

00:40:50.355 --> 00:40:51.494 looking at individuals
NOTE Confidence: 0.9608764

00:40:51.960 --> 00:40:53.560 who are prescribed long term
NOTE Confidence: 0.9608764

00:40:53.560 --> 00:40:55.160 opioids who may might meet
NOTE Confidence: 0.9608764

00:40:55.160 --> 00:40:57.020 that definition of opioid dependence
NOTE Confidence: 0.95305604

00:40:58.119 --> 00:40:59.339 on some of the nonpharmacologic

NOTE Confidence: 0.8897394
00:41:00.040 --> 00:41:00.540 interventions,
NOTE Confidence: 0.96550304
00:41:01.239 --> 00:41:02.760 but not specifically in this
NOTE Confidence: 0.96550304
00:41:02.760 --> 00:41:04.680 population of people with opioid
NOTE Confidence: 0.96550304
00:41:04.680 --> 00:41:05.420 use disorder.
NOTE Confidence: 0.97608066
00:41:10.945 --> 00:41:12.645 Thank you, Melissa. That's helpful
NOTE Confidence: 0.97608066
00:41:12.705 --> 00:41:14.005 and an important distinction.
NOTE Confidence: 0.7717312
00:41:15.345 --> 00:41:16.885 Patient Dow asked,
NOTE Confidence: 0.9746733
00:41:17.345 --> 00:41:18.545 how was the co occurrence
NOTE Confidence: 0.9746733
00:41:18.545 --> 00:41:19.825 of acute and chronic pain
NOTE Confidence: 0.9746733
00:41:19.825 --> 00:41:21.045 handled in the review?
NOTE Confidence: 0.9779113
00:41:21.400 --> 00:41:22.520 And, also, what share of
NOTE Confidence: 0.9779113
00:41:22.520 --> 00:41:23.900 the studies in the review
NOTE Confidence: 0.9779113
00:41:23.960 --> 00:41:25.180 were from the US?
NOTE Confidence: 0.99917334
00:41:28.760 --> 00:41:30.140 Two very good questions.
NOTE Confidence: 0.95064145
00:41:31.320 --> 00:41:33.020 So first, this is somewhat,
NOTE Confidence: 0.9861135

00:41:35.195 --> 00:41:37.375 similar to Melissa's prior answer,
NOTE Confidence: 0.9861135

00:41:37.435 --> 00:41:38.875 but we we notably did
NOTE Confidence: 0.9861135

00:41:38.875 --> 00:41:40.094 not include studies
NOTE Confidence: 0.88480353

00:41:40.715 --> 00:41:41.215 that,
NOTE Confidence: 0.9952468

00:41:41.915 --> 00:41:43.295 had, for example, buprenorphine
NOTE Confidence: 0.9971237

00:41:43.594 --> 00:41:45.515 prescribed for chronic pain without,
NOTE Confidence: 0.99535245

00:41:45.835 --> 00:41:47.594 explicit mention of opioid use
NOTE Confidence: 0.99535245

00:41:47.594 --> 00:41:49.320 disorder. And so we did
NOTE Confidence: 0.99535245

00:41:49.320 --> 00:41:50.540 focus the population
NOTE Confidence: 0.9992668

00:41:51.239 --> 00:41:52.860 on opioid use disorder
NOTE Confidence: 0.9995021

00:41:53.239 --> 00:41:54.700 with acute pain.
NOTE Confidence: 0.9997068

00:41:55.160 --> 00:41:55.660 Now
NOTE Confidence: 0.877515

00:41:56.680 --> 00:41:57.739 the co occurrence
NOTE Confidence: 0.99683493

00:41:58.120 --> 00:42:00.140 of acute and chronic pain,
NOTE Confidence: 0.99908864

00:42:00.684 --> 00:42:02.224 I'm sure that was represented
NOTE Confidence: 0.99371254

00:42:02.684 --> 00:42:03.404 in our,

NOTE Confidence: 0.9710031

00:42:03.724 --> 00:42:05.085 in the studies that we

NOTE Confidence: 0.9710031

00:42:05.085 --> 00:42:06.224 included. But,

NOTE Confidence: 0.9149022

00:42:09.964 --> 00:42:11.025 yeah, I guess

NOTE Confidence: 0.9641401

00:42:14.320 --> 00:42:15.520 most of the outcomes I

NOTE Confidence: 0.9641401

00:42:15.520 --> 00:42:16.020 guess,

NOTE Confidence: 0.96703064

00:42:16.400 --> 00:42:17.680 to address your question, most

NOTE Confidence: 0.96703064

00:42:17.680 --> 00:42:19.119 of the outcomes, even the

NOTE Confidence: 0.96703064

00:42:19.119 --> 00:42:20.719 pain related outcomes were short

NOTE Confidence: 0.96703064

00:42:20.719 --> 00:42:21.219 term,

NOTE Confidence: 0.9361599

00:42:22.000 --> 00:42:24.000 and were focused specifically on

NOTE Confidence: 0.9361599

00:42:24.000 --> 00:42:24.500 a

NOTE Confidence: 0.9935146

00:42:25.215 --> 00:42:27.215 specific acute pain condition. We

NOTE Confidence: 0.9935146

00:42:27.215 --> 00:42:28.575 didn't break up our studies

NOTE Confidence: 0.9935146

00:42:28.575 --> 00:42:29.614 that way or the way

NOTE Confidence: 0.9935146

00:42:29.614 --> 00:42:31.295 we reported our findings because

NOTE Confidence: 0.9935146

00:42:31.295 --> 00:42:32.114 it was so
NOTE Confidence: 0.8902731

00:42:32.415 --> 00:42:32.915 heterogeneous,
NOTE Confidence: 0.9475305

00:42:34.015 --> 00:42:36.415 the largest perhaps subgroup being
NOTE Confidence: 0.9475305

00:42:36.415 --> 00:42:36.915 postoperative
NOTE Confidence: 0.99125576

00:42:37.215 --> 00:42:37.715 pain.
NOTE Confidence: 0.9931777

00:42:40.380 --> 00:42:41.579 So I I I would
NOTE Confidence: 0.9931777

00:42:41.579 --> 00:42:42.700 like to say that most
NOTE Confidence: 0.9931777

00:42:42.700 --> 00:42:44.000 of the pain outcomes we
NOTE Confidence: 0.99095994

00:42:44.380 --> 00:42:46.400 found and reported on were
NOTE Confidence: 0.99095994

00:42:46.539 --> 00:42:47.039 specifically
NOTE Confidence: 0.98992234

00:42:48.219 --> 00:42:49.519 for acute pain.
NOTE Confidence: 0.90325284

00:42:50.299 --> 00:42:50.799 However,
NOTE Confidence: 0.93769264

00:42:53.165 --> 00:42:54.525 is it likely acute on
NOTE Confidence: 0.93769264

00:42:54.525 --> 00:42:55.425 chronic pain,
NOTE Confidence: 0.9971448

00:42:56.045 --> 00:42:57.165 and is there a high
NOTE Confidence: 0.9971448

00:42:57.165 --> 00:42:58.685 prevalence of chronic pain in

NOTE Confidence: 0.9971448
00:42:58.685 --> 00:42:59.885 people with OUD? We know
NOTE Confidence: 0.9971448
00:42:59.885 --> 00:43:00.765 the answer to that is
NOTE Confidence: 0.9971448
00:43:00.765 --> 00:43:01.265 yes.
NOTE Confidence: 0.9958525
00:43:01.805 --> 00:43:02.545 And so
NOTE Confidence: 0.97790444
00:43:03.005 --> 00:43:04.844 I guess my assumption is
NOTE Confidence: 0.97790444
00:43:04.844 --> 00:43:06.045 that chronic pain is at
NOTE Confidence: 0.97790444
00:43:06.045 --> 00:43:07.244 play here, although we didn't
NOTE Confidence: 0.97790444
00:43:07.244 --> 00:43:09.130 specifically find a way to
NOTE Confidence: 0.97790444
00:43:09.130 --> 00:43:10.250 account for it in our
NOTE Confidence: 0.97790444
00:43:10.250 --> 00:43:11.390 presentation results.
NOTE Confidence: 0.99452925
00:43:12.730 --> 00:43:14.250 I would also add that
NOTE Confidence: 0.99452925
00:43:14.250 --> 00:43:15.550 you'll see here
NOTE Confidence: 0.98165035
00:43:15.930 --> 00:43:16.750 at the bottom
NOTE Confidence: 0.94027483
00:43:17.370 --> 00:43:19.050 the different types of pain
NOTE Confidence: 0.94027483
00:43:19.050 --> 00:43:20.830 that were included, and, notably,
NOTE Confidence: 0.8505917

00:43:21.210 --> 00:43:22.989 men most of these
NOTE Confidence: 0.9254682

00:43:24.855 --> 00:43:25.594 are surgical
NOTE Confidence: 0.9633837

00:43:26.455 --> 00:43:28.055 or post surgical or some
NOTE Confidence: 0.9633837

00:43:28.055 --> 00:43:29.114 type of injury.
NOTE Confidence: 0.96986425

00:43:29.655 --> 00:43:30.395 So there
NOTE Confidence: 0.9723865

00:43:30.775 --> 00:43:32.875 there was some acute nonsurgical
NOTE Confidence: 0.9963214

00:43:33.335 --> 00:43:35.195 pain, but that was definitely
NOTE Confidence: 0.9963214

00:43:35.415 --> 00:43:35.915 not
NOTE Confidence: 0.998357

00:43:36.455 --> 00:43:36.955 the
NOTE Confidence: 0.99641603

00:43:37.710 --> 00:43:39.090 majority of these studies.
NOTE Confidence: 0.9832483

00:43:39.550 --> 00:43:40.830 So if you're thinking about
NOTE Confidence: 0.9832483

00:43:40.830 --> 00:43:42.510 individuals you're treating on a
NOTE Confidence: 0.9832483

00:43:42.510 --> 00:43:44.590 general medical unit who, say,
NOTE Confidence: 0.9832483

00:43:44.590 --> 00:43:45.969 have abdominal pain,
NOTE Confidence: 0.9990762

00:43:47.869 --> 00:43:48.770 or pancreatitis
NOTE Confidence: 0.97829235

00:43:49.230 --> 00:43:50.830 related pain, or, you know,

NOTE Confidence: 0.97829235
00:43:50.830 --> 00:43:52.964 some other sort of medically
NOTE Confidence: 0.97829235
00:43:53.025 --> 00:43:54.565 related pain condition,
NOTE Confidence: 0.95916957
00:43:55.665 --> 00:43:57.665 which probably fits more of
NOTE Confidence: 0.95916957
00:43:57.665 --> 00:43:59.765 that acute on chronic pain
NOTE Confidence: 0.95916957
00:43:59.825 --> 00:44:01.444 that we you're thinking of.
NOTE Confidence: 0.99937
00:44:01.905 --> 00:44:03.364 There weren't many studies
NOTE Confidence: 0.99981666
00:44:03.984 --> 00:44:04.724 of those
NOTE Confidence: 0.9834491
00:44:05.185 --> 00:44:06.565 patients. So I think,
NOTE Confidence: 0.99896824
00:44:07.270 --> 00:44:07.930 you know,
NOTE Confidence: 0.992617
00:44:08.470 --> 00:44:09.510 if somebody comes in with
NOTE Confidence: 0.992617
00:44:09.510 --> 00:44:11.190 an acute fracture, we're really
NOTE Confidence: 0.992617
00:44:11.190 --> 00:44:12.710 talking about acute pain. We're
NOTE Confidence: 0.992617
00:44:12.710 --> 00:44:14.410 not talking about chronic pain.
NOTE Confidence: 0.99661845
00:44:16.150 --> 00:44:17.430 So I think that's another
NOTE Confidence: 0.99661845
00:44:17.430 --> 00:44:18.570 area of potential
NOTE Confidence: 0.95994407

00:44:20.724 --> 00:44:22.585 research would be for
NOTE Confidence: 0.993717

00:44:23.285 --> 00:44:25.145 more of the medically related
NOTE Confidence: 0.993717

00:44:25.285 --> 00:44:27.145 complex pain that we're seeing
NOTE Confidence: 0.993717

00:44:27.205 --> 00:44:27.705 in
NOTE Confidence: 0.68922746

00:44:28.484 --> 00:44:28.984 generally,
NOTE Confidence: 0.9991385

00:44:29.285 --> 00:44:30.744 you know, general medicine
NOTE Confidence: 0.99205613

00:44:31.525 --> 00:44:32.025 settings.
NOTE Confidence: 0.9248987

00:44:32.930 --> 00:44:33.970 And I get I guess,
NOTE Confidence: 0.9248987

00:44:33.970 --> 00:44:35.170 Melissa, to that point, I,
NOTE Confidence: 0.9248987

00:44:35.170 --> 00:44:36.290 you know, I'm not seeing
NOTE Confidence: 0.9248987

00:44:36.290 --> 00:44:36.790 any
NOTE Confidence: 0.99857116

00:44:37.090 --> 00:44:37.590 reports
NOTE Confidence: 0.9990941

00:44:38.210 --> 00:44:38.870 of osteomyelitis
NOTE Confidence: 0.9392363

00:44:39.650 --> 00:44:40.550 or abscesses,
NOTE Confidence: 0.906798

00:44:41.570 --> 00:44:42.130 you know,
NOTE Confidence: 0.98150355

00:44:42.610 --> 00:44:44.130 and it I think what

NOTE Confidence: 0.98150355
00:44:44.130 --> 00:44:45.270 I'm hearing is
NOTE Confidence: 0.9996723
00:44:46.135 --> 00:44:47.495 those types of things that
NOTE Confidence: 0.9996723
00:44:47.495 --> 00:44:48.935 you would presume would be
NOTE Confidence: 0.9996723
00:44:48.935 --> 00:44:50.475 common among people receiving
NOTE Confidence: 0.96571636
00:44:51.255 --> 00:44:51.755 MOUD
NOTE Confidence: 0.99481547
00:44:52.135 --> 00:44:53.355 have not been represented
NOTE Confidence: 0.998957
00:44:53.655 --> 00:44:55.755 in the scientific literature as
NOTE Confidence: 0.9865264
00:44:56.135 --> 00:44:57.815 causing acute pain or being
NOTE Confidence: 0.9865264
00:44:57.815 --> 00:44:58.875 treated acutely.
NOTE Confidence: 0.95205975
00:45:00.180 --> 00:45:02.119 Not in large comparative
NOTE Confidence: 0.9384667
00:45:02.900 --> 00:45:05.060 well done studies with low
NOTE Confidence: 0.9384667
00:45:05.060 --> 00:45:06.599 risk of bias. Correct.
NOTE Confidence: 0.9997779
00:45:06.980 --> 00:45:07.719 Thank you.
NOTE Confidence: 0.99889106
00:45:08.260 --> 00:45:10.680 They're all really limited to
NOTE Confidence: 0.97561854
00:45:11.300 --> 00:45:13.239 case reports or case series.
NOTE Confidence: 0.9985781

00:45:14.339 --> 00:45:15.654 But, you know, the patients

NOTE Confidence: 0.9985781

00:45:15.654 --> 00:45:16.555 that we see

NOTE Confidence: 0.97868025

00:45:17.094 --> 00:45:18.614 in the hospital who have

NOTE Confidence: 0.97868025

00:45:18.614 --> 00:45:19.895 the osteo, who have the

NOTE Confidence: 0.97868025

00:45:19.895 --> 00:45:21.594 endocarditis, who have the

NOTE Confidence: 0.9912983

00:45:21.974 --> 00:45:22.954 spinal abscess,

NOTE Confidence: 0.9991161

00:45:23.895 --> 00:45:25.674 we don't have a great

NOTE Confidence: 0.9991161

00:45:25.734 --> 00:45:26.234 comparative

NOTE Confidence: 0.9982513

00:45:27.494 --> 00:45:29.255 study about how to best

NOTE Confidence: 0.9982513

00:45:29.255 --> 00:45:30.315 treat those individuals.

NOTE Confidence: 0.98815495

00:45:33.880 --> 00:45:36.140 Michelle, so you mentioned OUD

NOTE Confidence: 0.98815495

00:45:36.280 --> 00:45:37.400 outcomes, and I was just

NOTE Confidence: 0.98815495

00:45:37.400 --> 00:45:38.600 gonna challenge you a little

NOTE Confidence: 0.98815495

00:45:38.600 --> 00:45:40.940 bit. So what OUD outcomes

NOTE Confidence: 0.98815495

00:45:41.239 --> 00:45:41.900 would you

NOTE Confidence: 0.9997261

00:45:42.695 --> 00:45:44.315 be interested in looking at

NOTE Confidence: 0.8899128

00:45:44.775 --> 00:45:46.475 and and what time window?

NOTE Confidence: 0.99978733

00:45:47.895 --> 00:45:49.035 That's a great question.

NOTE Confidence: 0.99862367

00:45:49.415 --> 00:45:50.295 It was one of our

NOTE Confidence: 0.99862367

00:45:50.295 --> 00:45:50.795 main,

NOTE Confidence: 0.9943376

00:45:51.175 --> 00:45:53.594 like, conclusions from our systematic

NOTE Confidence: 0.9943376

00:45:53.735 --> 00:45:55.035 review, but I do

NOTE Confidence: 0.99944

00:45:55.950 --> 00:45:56.450 welcome

NOTE Confidence: 0.99661505

00:45:56.750 --> 00:45:57.070 feedback.

NOTE Confidence: 0.96735597

00:45:58.750 --> 00:46:00.430 Some study did report on

NOTE Confidence: 0.96735597

00:46:00.430 --> 00:46:01.730 the presence of cravings,

NOTE Confidence: 0.9503748

00:46:02.430 --> 00:46:03.170 short term,

NOTE Confidence: 0.9506467

00:46:04.830 --> 00:46:07.410 mostly the randomized clinical trials

NOTE Confidence: 0.9506467

00:46:07.550 --> 00:46:09.010 among people not prescribed,

NOTE Confidence: 0.9300746

00:46:09.790 --> 00:46:10.750 MOUD, you see in the

NOTE Confidence: 0.9300746

00:46:10.750 --> 00:46:11.650 right hand column.

NOTE Confidence: 0.9484422

00:46:12.885 --> 00:46:14.005 But we did not we
NOTE Confidence: 0.9484422

00:46:14.005 --> 00:46:16.425 noted we sorry. We notably
NOTE Confidence: 0.9484422

00:46:16.485 --> 00:46:17.545 did not identify
NOTE Confidence: 0.9739051

00:46:18.565 --> 00:46:20.325 many at all studies looking
NOTE Confidence: 0.9739051

00:46:20.325 --> 00:46:22.665 at, either initiation or retention
NOTE Confidence: 0.9739051

00:46:22.805 --> 00:46:23.545 in MOUD
NOTE Confidence: 0.9994427

00:46:24.165 --> 00:46:24.665 treatment.
NOTE Confidence: 0.99707115

00:46:25.285 --> 00:46:26.665 I think there was one
NOTE Confidence: 0.99707115

00:46:26.950 --> 00:46:28.330 study that looked at buprenorphine
NOTE Confidence: 0.9998039

00:46:28.870 --> 00:46:29.370 discontinuation
NOTE Confidence: 0.985852

00:46:29.750 --> 00:46:31.670 versus continuation at thirty day
NOTE Confidence: 0.985852

00:46:31.670 --> 00:46:32.170 retention.
NOTE Confidence: 0.9760078

00:46:32.630 --> 00:46:33.670 But other than that, that
NOTE Confidence: 0.9760078

00:46:33.670 --> 00:46:34.870 was the only one that
NOTE Confidence: 0.9760078

00:46:34.870 --> 00:46:36.630 looked at retention post hospital
NOTE Confidence: 0.9760078

00:46:36.630 --> 00:46:37.130 discharge,

NOTE Confidence: 0.9945255
00:46:39.675 --> 00:46:40.735 return to use,
NOTE Confidence: 0.99883586
00:46:41.355 --> 00:46:42.895 or maybe patterns of use
NOTE Confidence: 0.9489434
00:46:45.435 --> 00:46:46.635 would be the two that
NOTE Confidence: 0.9489434
00:46:46.635 --> 00:46:47.835 I think were most notably
NOTE Confidence: 0.9489434
00:46:47.835 --> 00:46:48.335 missing.
NOTE Confidence: 0.96305954
00:46:51.195 --> 00:46:51.695 And,
NOTE Confidence: 0.89811593
00:46:52.235 --> 00:46:53.690 just to be clear, you're
NOTE Confidence: 0.89811593
00:46:53.690 --> 00:46:55.530 thinking of post discharge or
NOTE Confidence: 0.89811593
00:46:55.530 --> 00:46:56.030 post
NOTE Confidence: 0.99818635
00:46:56.490 --> 00:46:58.430 resolution of the painful
NOTE Confidence: 0.9764269
00:46:59.210 --> 00:47:01.690 Yes. Episode. Okay. Yes. I
NOTE Confidence: 0.9764269
00:47:01.690 --> 00:47:02.650 I think part of that's
NOTE Confidence: 0.9764269
00:47:02.650 --> 00:47:04.730 informed by a notable concern
NOTE Confidence: 0.9764269
00:47:04.730 --> 00:47:06.490 you see among clinicians to
NOTE Confidence: 0.9764269
00:47:06.490 --> 00:47:06.990 aggressively
NOTE Confidence: 0.9906956

00:47:07.375 --> 00:47:08.735 treat acute pain among people

NOTE Confidence: 0.9906956

00:47:08.735 --> 00:47:10.815 with OUD is worsening the

NOTE Confidence: 0.9906956

00:47:10.815 --> 00:47:11.315 OUD,

NOTE Confidence: 0.97108334

00:47:12.255 --> 00:47:13.875 either with return to use,

NOTE Confidence: 0.8794091

00:47:14.815 --> 00:47:15.635 among people,

NOTE Confidence: 0.99563986

00:47:16.975 --> 00:47:18.275 not currently using,

NOTE Confidence: 0.9657892

00:47:19.055 --> 00:47:20.995 or some other, negative outcome

NOTE Confidence: 0.9657892

00:47:21.055 --> 00:47:23.075 post the acute pain episode.

NOTE Confidence: 0.9618562

00:47:23.750 --> 00:47:24.869 Mhmm. And we did not

NOTE Confidence: 0.9618562

00:47:24.869 --> 00:47:26.329 find any studies specifically

NOTE Confidence: 0.98540473

00:47:26.869 --> 00:47:28.170 looking at those outcomes.

NOTE Confidence: 0.4863224

00:47:28.950 --> 00:47:29.450 And

NOTE Confidence: 0.88434744

00:47:30.310 --> 00:47:32.390 another I should say. Yeah.

NOTE Confidence: 0.88434744

00:47:32.390 --> 00:47:33.530 Another potential

NOTE Confidence: 0.9781355

00:47:34.069 --> 00:47:36.170 surrogate marker could be premature

NOTE Confidence: 0.9781355

00:47:36.310 --> 00:47:36.810 discharge,

NOTE Confidence: 0.99843484
00:47:38.175 --> 00:47:39.695 or and and a lot
NOTE Confidence: 0.99843484
00:47:39.695 --> 00:47:41.395 of the work that we've
NOTE Confidence: 0.9726413
00:47:41.695 --> 00:47:43.855 done through Empower has looked
NOTE Confidence: 0.9726413
00:47:43.855 --> 00:47:45.155 at patient satisfaction
NOTE Confidence: 0.9530437
00:47:45.535 --> 00:47:47.535 or or quality of life,
NOTE Confidence: 0.9530437
00:47:47.535 --> 00:47:49.135 like, how satisfied is the
NOTE Confidence: 0.9530437
00:47:49.135 --> 00:47:50.415 person with the pain the
NOTE Confidence: 0.9530437
00:47:50.415 --> 00:47:51.614 quality of pain care that
NOTE Confidence: 0.9530437
00:47:51.614 --> 00:47:52.275 they're receiving
NOTE Confidence: 0.96476245
00:47:54.380 --> 00:47:55.900 for an individual with opioid
NOTE Confidence: 0.96476245
00:47:55.900 --> 00:47:56.940 use disorder, and I think
NOTE Confidence: 0.96476245
00:47:56.940 --> 00:47:57.840 that's a notable
NOTE Confidence: 0.9964107
00:47:59.100 --> 00:48:00.460 gap that we don't we
NOTE Confidence: 0.9964107
00:48:00.460 --> 00:48:01.440 don't really know
NOTE Confidence: 0.9997264
00:48:02.220 --> 00:48:03.520 how people are doing
NOTE Confidence: 0.84749186

00:48:04.940 --> 00:48:06.800 in regard to pain specifically
NOTE Confidence: 0.99650127

00:48:07.475 --> 00:48:08.835 when they have a pain
NOTE Confidence: 0.99650127

00:48:08.835 --> 00:48:10.375 condition and OUD.
NOTE Confidence: 0.9983327

00:48:13.235 --> 00:48:13.975 Thank you.
NOTE Confidence: 0.93879753

00:48:14.915 --> 00:48:16.355 Shelly Sue asked, does the
NOTE Confidence: 0.93879753

00:48:16.355 --> 00:48:17.715 review tell us how well
NOTE Confidence: 0.93879753

00:48:17.715 --> 00:48:18.215 hospitals
NOTE Confidence: 0.9965562

00:48:18.835 --> 00:48:21.094 are maintaining people on MOUD
NOTE Confidence: 0.9965562

00:48:21.315 --> 00:48:22.855 versus removing them?
NOTE Confidence: 0.9557466

00:48:28.200 --> 00:48:29.640 Alyssa might be better equipped
NOTE Confidence: 0.9557466

00:48:29.640 --> 00:48:30.920 to answer this question than
NOTE Confidence: 0.9557466

00:48:30.920 --> 00:48:31.559 I, but,
NOTE Confidence: 0.9990991

00:48:32.440 --> 00:48:34.299 the review did not specifically
NOTE Confidence: 0.9990991

00:48:34.440 --> 00:48:34.940 address
NOTE Confidence: 0.9853799

00:48:37.445 --> 00:48:39.545 that. We did hope to
NOTE Confidence: 0.9853799

00:48:39.685 --> 00:48:40.725 look at that in terms

NOTE Confidence: 0.9853799

00:48:40.725 --> 00:48:42.805 of, when we separated our

NOTE Confidence: 0.9853799

00:48:42.805 --> 00:48:45.705 findings by MOUD management being,

NOTE Confidence: 0.9540694

00:48:46.485 --> 00:48:49.140 continuing, discontinuing, or altering someone's

NOTE Confidence: 0.9540694

00:48:49.380 --> 00:48:51.539 baseline MOUD when in acute

NOTE Confidence: 0.9540694

00:48:51.539 --> 00:48:53.480 pain and then other interventions.

NOTE Confidence: 0.986187

00:48:55.539 --> 00:48:56.279 But I

NOTE Confidence: 0.9950978

00:48:56.739 --> 00:48:57.859 I think what you're getting

NOTE Confidence: 0.9950978

00:48:57.859 --> 00:48:58.739 at is if we have

NOTE Confidence: 0.9950978

00:48:58.739 --> 00:49:00.339 a sense for what the

NOTE Confidence: 0.9950978

00:49:00.339 --> 00:49:02.500 current standard of practice is

NOTE Confidence: 0.9950978

00:49:02.500 --> 00:49:05.505 using these studies as to

NOTE Confidence: 0.9950978

00:49:05.645 --> 00:49:07.185 how people are most often

NOTE Confidence: 0.9950978

00:49:07.245 --> 00:49:07.745 managed,

NOTE Confidence: 0.9688739

00:49:08.205 --> 00:49:09.325 when they come in, and

NOTE Confidence: 0.9688739

00:49:09.325 --> 00:49:09.825 I

NOTE Confidence: 0.99940354

00:49:10.205 --> 00:49:11.405 I don't think we got
NOTE Confidence: 0.99940354

00:49:11.405 --> 00:49:12.145 that answer.
NOTE Confidence: 0.968801

00:49:14.525 --> 00:49:15.485 I would say as a
NOTE Confidence: 0.968801

00:49:15.485 --> 00:49:17.025 group, most of the studies
NOTE Confidence: 0.9818137

00:49:17.550 --> 00:49:19.170 seem to be most interested
NOTE Confidence: 0.9818137

00:49:19.310 --> 00:49:20.690 in how do you
NOTE Confidence: 0.97561884

00:49:20.989 --> 00:49:23.410 successfully continue someone on their
NOTE Confidence: 0.97561884

00:49:23.710 --> 00:49:24.210 MOUD.
NOTE Confidence: 0.9731613

00:49:25.710 --> 00:49:26.989 Though there weren't many about
NOTE Confidence: 0.9731613

00:49:26.989 --> 00:49:27.489 initiation,
NOTE Confidence: 0.96045697

00:49:29.994 --> 00:49:30.955 it did seem to be
NOTE Confidence: 0.96045697

00:49:30.955 --> 00:49:32.075 a question that people are
NOTE Confidence: 0.96045697

00:49:32.075 --> 00:49:34.335 grappling with. There there weren't
NOTE Confidence: 0.99953175

00:49:35.355 --> 00:49:36.875 I don't remember any studies
NOTE Confidence: 0.99953175

00:49:36.875 --> 00:49:39.455 that talked about complete discontinuation
NOTE Confidence: 0.9962773

00:49:40.555 --> 00:49:41.055 of

NOTE Confidence: 0.62729996

00:49:42.309 --> 00:49:42.809 MOD.

NOTE Confidence: 0.9681304

00:49:43.670 --> 00:49:44.869 I think most people are

NOTE Confidence: 0.9681304

00:49:44.869 --> 00:49:46.410 grappling with how do we

NOTE Confidence: 0.9994663

00:49:46.950 --> 00:49:47.930 safely continue

NOTE Confidence: 0.8249406

00:49:48.230 --> 00:49:49.450 particularly the buprenorphine

NOTE Confidence: 0.9389941

00:49:49.750 --> 00:49:51.190 and still have good pain

NOTE Confidence: 0.9389941

00:49:51.190 --> 00:49:53.109 relief. And thankfully, many of

NOTE Confidence: 0.9389941

00:49:53.109 --> 00:49:54.309 the studies show that that's

NOTE Confidence: 0.9389941

00:49:54.309 --> 00:49:56.089 very possible to do and

NOTE Confidence: 0.9389941

00:49:56.275 --> 00:49:57.735 and consistent with current

NOTE Confidence: 0.9332681

00:49:58.355 --> 00:49:59.494 guidance, albeit,

NOTE Confidence: 0.98244965

00:50:00.435 --> 00:50:01.315 you know, we don't have

NOTE Confidence: 0.98244965

00:50:01.315 --> 00:50:02.594 a great evidence base for

NOTE Confidence: 0.98244965

00:50:02.594 --> 00:50:04.114 it. So I would say

NOTE Confidence: 0.98244965

00:50:04.114 --> 00:50:05.975 by and large, it seems

NOTE Confidence: 0.98244965

00:50:06.195 --> 00:50:07.795 like people are getting the
NOTE Confidence: 0.98244965

00:50:07.795 --> 00:50:09.475 message, though I still think
NOTE Confidence: 0.98244965

00:50:09.475 --> 00:50:10.695 there's a lot of misinformation
NOTE Confidence: 0.9995619

00:50:11.155 --> 00:50:11.815 out there
NOTE Confidence: 0.9992134

00:50:12.890 --> 00:50:14.270 about buprenorphine continuation
NOTE Confidence: 0.9965439

00:50:14.650 --> 00:50:15.950 and methadone continuation.
NOTE Confidence: 0.9712475

00:50:16.890 --> 00:50:18.250 I don't think anybody thinks
NOTE Confidence: 0.9712475

00:50:18.250 --> 00:50:20.170 you should discontinue methadone if
NOTE Confidence: 0.9712475

00:50:20.170 --> 00:50:21.230 somebody's been,
NOTE Confidence: 0.94845295

00:50:22.330 --> 00:50:23.790 stable on it, but
NOTE Confidence: 0.92202353

00:50:24.665 --> 00:50:25.625 you know, I don't make
NOTE Confidence: 0.92202353

00:50:25.625 --> 00:50:27.244 many assumptions like that anymore.
NOTE Confidence: 0.92202353

00:50:27.385 --> 00:50:28.205 Yeah. Though
NOTE Confidence: 0.88271457

00:50:28.744 --> 00:50:30.025 that's a good point. Unless
NOTE Confidence: 0.88271457

00:50:30.025 --> 00:50:31.165 I I guess I will
NOTE Confidence: 0.9928381

00:50:31.625 --> 00:50:32.125 argue

NOTE Confidence: 0.9718982
00:50:32.425 --> 00:50:32.925 in,
NOTE Confidence: 0.98496675
00:50:33.705 --> 00:50:34.585 as a, you know, as
NOTE Confidence: 0.98496675
00:50:34.585 --> 00:50:35.805 a result of our understanding
NOTE Confidence: 0.98496675
00:50:35.945 --> 00:50:36.605 what happens
NOTE Confidence: 0.9634419
00:50:36.984 --> 00:50:38.205 in our own state.
NOTE Confidence: 0.9331892
00:50:39.180 --> 00:50:40.880 I think it's probably very
NOTE Confidence: 0.9331892
00:50:40.940 --> 00:50:41.440 hyperlocal,
NOTE Confidence: 0.9993291
00:50:42.940 --> 00:50:44.219 decision. You can have two
NOTE Confidence: 0.9993291
00:50:44.219 --> 00:50:45.760 hospitals in the same city
NOTE Confidence: 0.99886966
00:50:46.060 --> 00:50:47.359 that have completely
NOTE Confidence: 0.9783489
00:50:47.980 --> 00:50:50.320 disparate protocols with respect to
NOTE Confidence: 0.9783489
00:50:50.540 --> 00:50:51.839 continuation versus,
NOTE Confidence: 0.99162704
00:50:53.205 --> 00:50:54.985 tapering or discontinuation.
NOTE Confidence: 0.9678818
00:50:55.364 --> 00:50:55.685 So I
NOTE Confidence: 0.94210184
00:50:56.805 --> 00:50:58.805 my I think the the
NOTE Confidence: 0.94210184

00:50:58.805 --> 00:51:00.165 short answer to Shelley is
NOTE Confidence: 0.94210184

00:51:00.165 --> 00:51:01.765 there's huge amount of practice
NOTE Confidence: 0.94210184

00:51:01.765 --> 00:51:02.265 variation
NOTE Confidence: 0.9983231

00:51:02.805 --> 00:51:04.505 that is very much institutionally
NOTE Confidence: 0.8649104

00:51:04.885 --> 00:51:06.105 determined, and, unfortunately,
NOTE Confidence: 0.99733764

00:51:07.370 --> 00:51:08.489 not as many patients are
NOTE Confidence: 0.99733764

00:51:08.489 --> 00:51:10.090 continued as we would expect
NOTE Confidence: 0.99733764

00:51:10.090 --> 00:51:11.710 around the country at large.
NOTE Confidence: 0.99584615

00:51:12.570 --> 00:51:13.070 Definitely.
NOTE Confidence: 0.9853652

00:51:13.370 --> 00:51:14.650 And this this will actually
NOTE Confidence: 0.9853652

00:51:14.650 --> 00:51:15.150 answer,
NOTE Confidence: 0.9749126

00:51:16.330 --> 00:51:18.250 the another question that patients
NOTE Confidence: 0.9749126

00:51:18.250 --> 00:51:19.625 had was how many of
NOTE Confidence: 0.9749126

00:51:19.625 --> 00:51:20.984 these studies were outside the
NOTE Confidence: 0.9749126

00:51:20.984 --> 00:51:22.105 US? I will say in
NOTE Confidence: 0.9749126

00:51:22.105 --> 00:51:23.625 the non US studies, it

NOTE Confidence: 0.9749126
00:51:23.625 --> 00:51:25.065 was very rare for those
NOTE Confidence: 0.9749126
00:51:25.065 --> 00:51:27.165 people to be started on
NOTE Confidence: 0.9749126
00:51:27.464 --> 00:51:28.925 any form of MOUD,
NOTE Confidence: 0.9943374
00:51:29.785 --> 00:51:31.244 and most of these individuals
NOTE Confidence: 0.9943374
00:51:31.385 --> 00:51:31.945 were treated
NOTE Confidence: 0.9887176
00:51:32.450 --> 00:51:33.570 The majority of them were
NOTE Confidence: 0.9887176
00:51:33.570 --> 00:51:35.110 in treated in Iran.
NOTE Confidence: 0.9947311
00:51:35.650 --> 00:51:36.930 There was one study in
NOTE Confidence: 0.9947311
00:51:36.930 --> 00:51:38.070 Egypt, I believe.
NOTE Confidence: 0.9368883
00:51:38.610 --> 00:51:39.910 That's right. And interestingly,
NOTE Confidence: 0.969877
00:51:41.250 --> 00:51:42.690 almost a hundred percent of
NOTE Confidence: 0.969877
00:51:42.690 --> 00:51:43.810 the people in the study
NOTE Confidence: 0.969877
00:51:43.810 --> 00:51:44.630 were male.
NOTE Confidence: 0.99775636
00:51:45.645 --> 00:51:47.105 So a hundred percent men
NOTE Confidence: 0.97556764
00:51:47.405 --> 00:51:48.705 who used opium,
NOTE Confidence: 0.99977046

00:51:49.565 --> 00:51:50.065 not
NOTE Confidence: 0.9757014

00:51:50.525 --> 00:51:52.785 opioids, not heroin, not fentanyl,
NOTE Confidence: 0.9757014

00:51:53.005 --> 00:51:53.505 opium
NOTE Confidence: 0.8935461

00:51:54.445 --> 00:51:55.185 in Iran
NOTE Confidence: 0.9487594

00:51:55.885 --> 00:51:57.825 coming in with a traumatic
NOTE Confidence: 0.7651967

00:51:58.285 --> 00:51:58.785 injury.
NOTE Confidence: 0.97121406

00:52:00.320 --> 00:52:01.440 That was what the majority
NOTE Confidence: 0.97121406

00:52:01.440 --> 00:52:02.960 of those studies were. But
NOTE Confidence: 0.97121406

00:52:02.960 --> 00:52:04.160 those were all the studies
NOTE Confidence: 0.97121406

00:52:04.160 --> 00:52:05.280 that were actually looking at
NOTE Confidence: 0.97121406

00:52:05.280 --> 00:52:06.500 some of these non,
NOTE Confidence: 0.9597624

00:52:08.160 --> 00:52:09.920 opioid interventions, which is kind
NOTE Confidence: 0.9597624

00:52:09.920 --> 00:52:11.200 of interesting. So you do
NOTE Confidence: 0.9597624

00:52:11.200 --> 00:52:12.500 have to think about generalizability.
NOTE Confidence: 0.9563563

00:52:13.775 --> 00:52:15.055 The total number of those
NOTE Confidence: 0.9563563

00:52:15.055 --> 00:52:16.515 studies, there were maybe

NOTE Confidence: 0.95101464

00:52:17.855 --> 00:52:18.995 ten, Michelle.

NOTE Confidence: 0.99578404

00:52:21.135 --> 00:52:21.875 I think,

NOTE Confidence: 0.9850354

00:52:22.575 --> 00:52:24.175 the rest were from were

NOTE Confidence: 0.9850354

00:52:24.175 --> 00:52:25.155 from the US.

NOTE Confidence: 0.99626434

00:52:26.094 --> 00:52:26.835 That's right.

NOTE Confidence: 0.99937975

00:52:27.160 --> 00:52:27.900 Yeah. So

NOTE Confidence: 0.9869032

00:52:28.200 --> 00:52:29.960 interesting. And then because I

NOTE Confidence: 0.9869032

00:52:29.960 --> 00:52:30.920 know we're out of time.

NOTE Confidence: 0.9869032

00:52:30.920 --> 00:52:32.860 I saw Natalie's question about

NOTE Confidence: 0.99541295

00:52:33.560 --> 00:52:35.420 the benefits of regional blocks,

NOTE Confidence: 0.9879518

00:52:36.200 --> 00:52:37.960 on acute pain. And I

NOTE Confidence: 0.9879518

00:52:37.960 --> 00:52:39.000 think this is a really

NOTE Confidence: 0.9879518

00:52:39.000 --> 00:52:40.440 important question and something that

NOTE Confidence: 0.9879518

00:52:40.440 --> 00:52:42.114 I'm always advocating for our

NOTE Confidence: 0.9879518

00:52:42.114 --> 00:52:42.935 patients who

NOTE Confidence: 0.9685338

00:52:43.635 --> 00:52:44.915 have OUD. Because if you
NOTE Confidence: 0.9685338

00:52:44.915 --> 00:52:45.415 can,
NOTE Confidence: 0.9766114

00:52:45.715 --> 00:52:47.555 you know, block someone's foot
NOTE Confidence: 0.9766114

00:52:47.555 --> 00:52:49.075 who has osteo in their
NOTE Confidence: 0.9766114

00:52:49.075 --> 00:52:49.575 foot,
NOTE Confidence: 0.99837446

00:52:49.955 --> 00:52:51.555 you can really improve their,
NOTE Confidence: 0.97138184

00:52:52.355 --> 00:52:53.395 their pain, or at least
NOTE Confidence: 0.97138184

00:52:53.395 --> 00:52:54.435 we think you can improve
NOTE Confidence: 0.97138184

00:52:54.435 --> 00:52:55.175 their pain.
NOTE Confidence: 0.99176246

00:52:55.610 --> 00:52:56.110 Unfortunately,
NOTE Confidence: 0.9867876

00:52:56.489 --> 00:52:58.170 most of those studies, and
NOTE Confidence: 0.9867876

00:52:58.170 --> 00:52:59.290 this would be something that
NOTE Confidence: 0.9867876

00:52:59.290 --> 00:53:00.890 I would hope Natalie would
NOTE Confidence: 0.9867876

00:53:00.890 --> 00:53:02.090 want to study in the
NOTE Confidence: 0.9867876

00:53:02.090 --> 00:53:02.590 future,
NOTE Confidence: 0.97189504

00:53:03.610 --> 00:53:05.370 most of those studies were

NOTE Confidence: 0.97189504

00:53:05.370 --> 00:53:07.550 only looking at block duration.

NOTE Confidence: 0.9946807

00:53:08.535 --> 00:53:10.214 They weren't actually looking at

NOTE Confidence: 0.9946807

00:53:10.214 --> 00:53:11.194 pain outcomes.

NOTE Confidence: 0.9798635

00:53:11.895 --> 00:53:13.415 So we don't wanna just

NOTE Confidence: 0.9798635

00:53:13.415 --> 00:53:14.614 know how long did the

NOTE Confidence: 0.9798635

00:53:14.614 --> 00:53:16.375 block last. We wanna know

NOTE Confidence: 0.9798635

00:53:16.375 --> 00:53:17.835 how it helped the patient.

NOTE Confidence: 0.99529123

00:53:18.214 --> 00:53:19.035 And so

NOTE Confidence: 0.9426676

00:53:19.415 --> 00:53:21.114 though there are block studies,

NOTE Confidence: 0.9983663

00:53:21.880 --> 00:53:23.400 they were limited in the

NOTE Confidence: 0.9983663

00:53:23.400 --> 00:53:24.440 outcomes that we could look

NOTE Confidence: 0.9983663

00:53:24.440 --> 00:53:24.940 at.

NOTE Confidence: 0.9950473

00:53:25.480 --> 00:53:26.520 I would actually be happy

NOTE Confidence: 0.9950473

00:53:26.520 --> 00:53:27.480 to share some of those

NOTE Confidence: 0.9950473

00:53:27.480 --> 00:53:29.800 studies with anybody interested because,

NOTE Confidence: 0.99693906

00:53:30.440 --> 00:53:31.900 Tom Hickey was our anesthesia

NOTE Confidence: 0.9904062

00:53:32.280 --> 00:53:32.780 colleague

NOTE Confidence: 0.9995545

00:53:33.080 --> 00:53:33.735 on this

NOTE Confidence: 0.97957027

00:53:34.135 --> 00:53:35.255 review, and we we did

NOTE Confidence: 0.97957027

00:53:35.255 --> 00:53:36.614 have amongst the authors and

NOTE Confidence: 0.97957027

00:53:36.614 --> 00:53:38.215 then with the editorial team

NOTE Confidence: 0.97957027

00:53:38.215 --> 00:53:39.415 of the journal a bit

NOTE Confidence: 0.97957027

00:53:39.415 --> 00:53:41.335 of a debate about whether

NOTE Confidence: 0.97957027

00:53:41.335 --> 00:53:43.095 duration of block is a

NOTE Confidence: 0.97957027

00:53:43.095 --> 00:53:45.515 sufficiently pain related outcome to

NOTE Confidence: 0.97957027

00:53:45.575 --> 00:53:46.855 include in the study and

NOTE Confidence: 0.97957027

00:53:46.855 --> 00:53:47.835 report on.

NOTE Confidence: 0.9656107

00:53:48.239 --> 00:53:50.020 And we ended up concluding

NOTE Confidence: 0.9656107

00:53:50.080 --> 00:53:51.300 that if postoperative

NOTE Confidence: 0.9900125

00:53:51.600 --> 00:53:53.680 pain itself was measured and

NOTE Confidence: 0.9900125

00:53:53.680 --> 00:53:55.920 reported, that was sufficient. But

NOTE Confidence: 0.9900125
00:53:55.920 --> 00:53:57.520 if it was just duration
NOTE Confidence: 0.9900125
00:53:57.520 --> 00:53:58.820 of block, it was not.
NOTE Confidence: 0.9597233
00:53:59.200 --> 00:54:00.239 But we did find a
NOTE Confidence: 0.9597233
00:54:00.239 --> 00:54:01.940 number of studies, including about,
NOTE Confidence: 0.9905388
00:54:02.805 --> 00:54:04.665 lidocaine infusions intraoperatively,
NOTE Confidence: 0.98261535
00:54:05.925 --> 00:54:07.464 as they relate to postoperative,
NOTE Confidence: 0.89374286
00:54:08.244 --> 00:54:10.025 block, and perhaps you could
NOTE Confidence: 0.89374286
00:54:10.085 --> 00:54:11.545 transferably say pain,
NOTE Confidence: 0.9912402
00:54:12.244 --> 00:54:13.204 and I'd be happy to
NOTE Confidence: 0.9912402
00:54:13.204 --> 00:54:14.724 kinda dig those up and,
NOTE Confidence: 0.9987687
00:54:15.285 --> 00:54:16.425 share them with folks.
NOTE Confidence: 0.94483364
00:54:18.069 --> 00:54:19.589 Yeah. Shelley gets the last
NOTE Confidence: 0.94483364
00:54:19.589 --> 00:54:21.530 question. She says the MME
NOTE Confidence: 0.94483364
00:54:21.589 --> 00:54:23.210 levels across MOUDs
NOTE Confidence: 0.9960519
00:54:23.989 --> 00:54:25.030 seem to show that there
NOTE Confidence: 0.9960519

00:54:25.030 --> 00:54:27.109 isn't a direct relationship between
NOTE Confidence: 0.9960519

00:54:27.109 --> 00:54:29.770 MOUD type and MME
NOTE Confidence: 0.96489334

00:54:30.230 --> 00:54:31.450 slash pain control,
NOTE Confidence: 0.9848262

00:54:32.469 --> 00:54:33.849 assuming that the MMEs
NOTE Confidence: 0.9686986

00:54:34.445 --> 00:54:35.805 may not be calculated the
NOTE Confidence: 0.9686986

00:54:35.805 --> 00:54:37.025 same across studies.
NOTE Confidence: 0.95558906

00:54:38.765 --> 00:54:40.364 I love this comment, Shelley,
NOTE Confidence: 0.95558906

00:54:40.364 --> 00:54:41.085 I will say.
NOTE Confidence: 0.9927487

00:54:41.565 --> 00:54:43.245 I got down a whole
NOTE Confidence: 0.9927487

00:54:43.245 --> 00:54:45.485 rabbit hole with this and
NOTE Confidence: 0.9927487

00:54:45.485 --> 00:54:47.745 made tables on tables of
NOTE Confidence: 0.9927487

00:54:47.885 --> 00:54:48.989 looking at how each
NOTE Confidence: 0.98661906

00:54:49.950 --> 00:54:51.469 study calculated their MMEs. Did
NOTE Confidence: 0.98661906

00:54:51.469 --> 00:54:53.070 they include methadone? Did they
NOTE Confidence: 0.98661906

00:54:53.070 --> 00:54:55.010 include buprenorphine? Did they not?
NOTE Confidence: 0.98661906

00:54:55.230 --> 00:54:56.830 And it was honestly, it

NOTE Confidence: 0.98661906
00:54:56.830 --> 00:54:57.310 was so
NOTE Confidence: 0.944964
00:54:57.950 --> 00:54:58.610 the the heterogeneity
NOTE Confidence: 0.9991346
00:54:59.469 --> 00:55:00.369 made it impossible
NOTE Confidence: 0.96519804
00:55:00.750 --> 00:55:01.410 to compare,
NOTE Confidence: 0.96138525
00:55:02.110 --> 00:55:04.265 in any meaningful way. And
NOTE Confidence: 0.96138525
00:55:04.265 --> 00:55:05.705 so the best we could
NOTE Confidence: 0.96138525
00:55:05.705 --> 00:55:06.905 do is just kinda report
NOTE Confidence: 0.96138525
00:55:06.905 --> 00:55:07.625 a range, and you can
NOTE Confidence: 0.96138525
00:55:07.625 --> 00:55:08.425 even see the range. I
NOTE Confidence: 0.96138525
00:55:08.425 --> 00:55:09.645 mean, the range in methadone,
NOTE Confidence: 0.96138525
00:55:09.785 --> 00:55:11.325 five to seven hundred
NOTE Confidence: 0.922103
00:55:11.864 --> 00:55:13.085 MMEs per day,
NOTE Confidence: 0.9918591
00:55:14.025 --> 00:55:15.545 is quite a wide range.
NOTE Confidence: 0.9918591
00:55:15.545 --> 00:55:17.065 And so I I don't
NOTE Confidence: 0.9918591
00:55:17.065 --> 00:55:18.344 think there is data yet
NOTE Confidence: 0.9918591

00:55:18.344 --> 00:55:20.450 to support that it differs
NOTE Confidence: 0.9918591

00:55:20.670 --> 00:55:21.730 by MOUD.
NOTE Confidence: 0.99976003

00:55:22.030 --> 00:55:22.530 However,
NOTE Confidence: 0.9997806

00:55:23.310 --> 00:55:23.810 I
NOTE Confidence: 0.99645597

00:55:24.349 --> 00:55:25.890 am not confident
NOTE Confidence: 0.99993306

00:55:26.510 --> 00:55:27.410 that we can
NOTE Confidence: 0.9850314

00:55:27.790 --> 00:55:29.170 say we've sufficiently
NOTE Confidence: 0.996775

00:55:29.950 --> 00:55:31.469 determined that there isn't. I
NOTE Confidence: 0.996775

00:55:31.469 --> 00:55:32.670 think it's just that the
NOTE Confidence: 0.996775

00:55:32.670 --> 00:55:34.050 the data is too
NOTE Confidence: 0.797709

00:55:35.395 --> 00:55:35.895 heterogeneous
NOTE Confidence: 0.9732836

00:55:36.435 --> 00:55:37.335 at this time.
NOTE Confidence: 0.9943094

00:55:38.114 --> 00:55:38.995 And I I would be
NOTE Confidence: 0.9943094

00:55:38.995 --> 00:55:40.455 interested in a more rigorous,
NOTE Confidence: 0.9997627

00:55:41.315 --> 00:55:41.815 comparison.
NOTE Confidence: 0.9945075

00:55:43.875 --> 00:55:44.515 I don't know if you

NOTE Confidence: 0.9945075
00:55:44.515 --> 00:55:45.735 wanna add to that, Melissa.
NOTE Confidence: 0.9452991
00:55:46.675 --> 00:55:48.135 I would just say, though,
NOTE Confidence: 0.9452991
00:55:48.355 --> 00:55:50.295 right, we did find studies
NOTE Confidence: 0.9452991
00:55:50.355 --> 00:55:50.855 that
NOTE Confidence: 0.99393326
00:55:51.210 --> 00:55:53.290 that helped us rigorously answer
NOTE Confidence: 0.99393326
00:55:53.290 --> 00:55:54.030 this question.
NOTE Confidence: 0.96801156
00:55:54.810 --> 00:55:55.690 I would say in my
NOTE Confidence: 0.96801156
00:55:55.690 --> 00:55:56.750 clinical practice,
NOTE Confidence: 0.9968765
00:55:57.210 --> 00:55:57.710 interestingly,
NOTE Confidence: 0.9986211
00:55:58.089 --> 00:55:59.550 I am seeing individuals
NOTE Confidence: 0.9314849
00:56:00.330 --> 00:56:02.030 who are treating with methadone
NOTE Confidence: 0.9785117
00:56:02.410 --> 00:56:04.270 need much higher doses
NOTE Confidence: 0.9894197
00:56:04.570 --> 00:56:05.550 of full agonist
NOTE Confidence: 0.98664695
00:56:06.094 --> 00:56:07.614 than those who are are
NOTE Confidence: 0.98664695
00:56:07.614 --> 00:56:08.914 receiving buprenorphine.
NOTE Confidence: 0.9960019

00:56:09.214 --> 00:56:10.094 And I think some of
NOTE Confidence: 0.9960019

00:56:10.094 --> 00:56:11.075 that could be related
NOTE Confidence: 0.9977039

00:56:11.775 --> 00:56:12.835 to some of the hyperalgesia
NOTE Confidence: 0.9831902

00:56:13.295 --> 00:56:14.914 that we see with methadone
NOTE Confidence: 0.9831902

00:56:15.055 --> 00:56:16.434 and the need to overcome
NOTE Confidence: 0.99910814

00:56:17.135 --> 00:56:17.635 the
NOTE Confidence: 0.9990079

00:56:18.335 --> 00:56:18.835 blockade
NOTE Confidence: 0.94617254

00:56:19.135 --> 00:56:20.494 of methadone, which I think
NOTE Confidence: 0.94617254

00:56:20.494 --> 00:56:20.994 actually,
NOTE Confidence: 0.9711825

00:56:22.070 --> 00:56:24.310 strangely, is higher than with
NOTE Confidence: 0.9711825

00:56:24.310 --> 00:56:24.810 buprenorphine.
NOTE Confidence: 0.9933387

00:56:26.310 --> 00:56:27.050 And so,
NOTE Confidence: 0.99927115

00:56:27.510 --> 00:56:28.650 you know, we've been
NOTE Confidence: 0.9318687

00:56:29.430 --> 00:56:31.290 in our practice seeing individuals
NOTE Confidence: 0.9038302

00:56:31.830 --> 00:56:32.330 postoperatively,
NOTE Confidence: 0.9662639

00:56:33.844 --> 00:56:35.625 say, going through cardiac surgery,

NOTE Confidence: 0.9779158
00:56:36.085 --> 00:56:37.204 if they are treated with
NOTE Confidence: 0.9779158
00:56:37.204 --> 00:56:38.805 methadone, it's gonna be much,
NOTE Confidence: 0.9779158
00:56:38.805 --> 00:56:40.005 much harder to get their
NOTE Confidence: 0.9779158
00:56:40.005 --> 00:56:41.444 acute pain under control than
NOTE Confidence: 0.9779158
00:56:41.444 --> 00:56:42.484 if they are treated with
NOTE Confidence: 0.9779158
00:56:42.484 --> 00:56:42.984 buprenorphine.
NOTE Confidence: 0.99595004
00:56:43.684 --> 00:56:45.045 We're actually able to get
NOTE Confidence: 0.99595004
00:56:45.045 --> 00:56:46.825 their pain under control with,
NOTE Confidence: 0.99854815
00:56:47.605 --> 00:56:48.424 much fewer
NOTE Confidence: 0.97935504
00:56:49.190 --> 00:56:51.369 lower doses of opioids. So
NOTE Confidence: 0.9974453
00:56:51.750 --> 00:56:52.569 I think there's
NOTE Confidence: 0.9810505
00:56:53.190 --> 00:56:54.950 that is a huge open
NOTE Confidence: 0.9810505
00:56:54.950 --> 00:56:56.329 question that I think,
NOTE Confidence: 0.9978715
00:56:57.190 --> 00:56:58.549 would be great to to
NOTE Confidence: 0.9978715
00:56:58.549 --> 00:56:59.509 be able to have more
NOTE Confidence: 0.9978715

00:56:59.509 --> 00:57:00.730 rigorous study about.
NOTE Confidence: 0.92895454

00:57:01.715 --> 00:57:03.475 Wonderful. Thank you everybody for
NOTE Confidence: 0.92895454

00:57:03.475 --> 00:57:05.335 joining. Thank you, Michelle and
NOTE Confidence: 0.92895454

00:57:05.395 --> 00:57:05.895 Melissa.
NOTE Confidence: 0.9617712

00:57:06.915 --> 00:57:07.955 I think you all see
NOTE Confidence: 0.9617712

00:57:07.955 --> 00:57:09.315 that there's a research road
NOTE Confidence: 0.9617712

00:57:09.315 --> 00:57:10.915 map that has just been
NOTE Confidence: 0.9617712

00:57:10.915 --> 00:57:13.495 outlined for you. Emergency medicine,
NOTE Confidence: 0.9985002

00:57:14.035 --> 00:57:14.535 anesthesiology,
NOTE Confidence: 0.8804915

00:57:15.748 --> 00:57:16.249 hospitalist,
NOTE Confidence: 0.8868474

00:57:16.789 --> 00:57:17.849 addiction medicine.
NOTE Confidence: 0.9870817

00:57:18.629 --> 00:57:19.929 Go forth and,
NOTE Confidence: 0.9986652

00:57:20.789 --> 00:57:21.289 prosper.
NOTE Confidence: 0.9469648

00:57:21.589 --> 00:57:22.569 Thank you, everybody.