

WEBVTT

NOTE duration:"00:52:27"

NOTE recognizability:0.893

NOTE language:en-us

NOTE Confidence: 0.902902842941177

00:00:14.020 --> 00:00:16.065 Perfect so good afternoon everyone

NOTE Confidence: 0.902902842941177

00:00:16.065 --> 00:00:18.532 and welcome to sleep seminar and

NOTE Confidence: 0.902902842941177

00:00:18.532 --> 00:00:20.644 so just a couple of announcements.

NOTE Confidence: 0.902902842941177

00:00:20.650 --> 00:00:22.360 Remember this leap seminar lectures

NOTE Confidence: 0.902902842941177

00:00:22.360 --> 00:00:24.349 are available for CME credit and

NOTE Confidence: 0.902902842941177

00:00:24.349 --> 00:00:25.917 to get credit just text the ID

NOTE Confidence: 0.902902842941177

00:00:25.917 --> 00:00:27.600 for the lecture to Yale Cloud.

NOTE Confidence: 0.902902842941177

00:00:27.600 --> 00:00:30.043 See any that needs to be done within

NOTE Confidence: 0.902902842941177

00:00:30.043 --> 00:00:31.458 15 minutes after the lecture.

NOTE Confidence: 0.902902842941177

00:00:31.460 --> 00:00:33.320 Friends and information will show up

NOTE Confidence: 0.902902842941177

00:00:33.320 --> 00:00:35.432 in the chat recordings of the lecture

NOTE Confidence: 0.902902842941177

00:00:35.432 --> 00:00:37.070 are available within two weeks at

NOTE Confidence: 0.902902842941177

00:00:37.070 --> 00:00:39.162 the site noted in the chat and if

NOTE Confidence: 0.902902842941177

00:00:39.162 --> 00:00:41.102 you have questions during the talk,  
NOTE Confidence: 0.902902842941177

00:00:41.102 --> 00:00:42.678 use the chat feature.  
NOTE Confidence: 0.902902842941177

00:00:42.680 --> 00:00:44.036 Feel free to use it throughout.  
NOTE Confidence: 0.902902842941177

00:00:44.040 --> 00:00:45.580 I'll moderate the questions at the end  
NOTE Confidence: 0.902902842941177

00:00:45.580 --> 00:00:47.739 and if you and also at the end I will  
NOTE Confidence: 0.902902842941177

00:00:47.739 --> 00:00:49.260 give you permission to unmute yourself,  
NOTE Confidence: 0.902902842941177

00:00:49.260 --> 00:00:52.140 so feel free to ask your own questions.  
NOTE Confidence: 0.902902842941177

00:00:52.140 --> 00:00:54.289 So now it's my pleasure to introduce  
NOTE Confidence: 0.902902842941177

00:00:54.289 --> 00:00:55.608 today's sleep seminar speaker  
NOTE Confidence: 0.902902842941177

00:00:55.608 --> 00:00:57.772 Doctor Jamie \*\*\*\*\* Dr \*\*\*\*\* is an  
NOTE Confidence: 0.902902842941177

00:00:57.772 --> 00:00:59.187 associate professor in the Department  
NOTE Confidence: 0.902902842941177

00:00:59.187 --> 00:01:01.066 of Anesthesia and also Division  
NOTE Confidence: 0.902902842941177

00:01:01.066 --> 00:01:02.610 Chief of ambulatory anesthesia.  
NOTE Confidence: 0.902902842941177

00:01:02.610 --> 00:01:03.564 Here at Yale,  
NOTE Confidence: 0.902902842941177

00:01:03.564 --> 00:01:05.472 she received her MD from Albert  
NOTE Confidence: 0.902902842941177

00:01:05.472 --> 00:01:07.343 Einstein College of Medicine and

NOTE Confidence: 0.902902842941177  
00:01:07.343 --> 00:01:09.208 her internship at Memorial Sloan,  
NOTE Confidence: 0.902902842941177  
00:01:09.210 --> 00:01:12.325 Kettering and her residency at Mount Sinai.  
NOTE Confidence: 0.902902842941177  
00:01:12.330 --> 00:01:14.010 She stayed on the faculty at Mount  
NOTE Confidence: 0.902902842941177  
00:01:14.010 --> 00:01:16.006 Sinai and there she served as clinical  
NOTE Confidence: 0.902902842941177  
00:01:16.006 --> 00:01:17.234 coordinator of the Perioperative  
NOTE Confidence: 0.902902842941177  
00:01:17.234 --> 00:01:18.810 and Pain Management Service.  
NOTE Confidence: 0.902902842941177  
00:01:18.810 --> 00:01:20.749 The chair of the difficult Area Response  
NOTE Confidence: 0.902902842941177  
00:01:20.749 --> 00:01:22.705 Team and the Fellowship director of  
NOTE Confidence: 0.902902842941177  
00:01:22.705 --> 00:01:24.841 the head and Neck Anesthesiology and  
NOTE Confidence: 0.902902842941177  
00:01:24.841 --> 00:01:26.608 Advanced Airway Management program,  
NOTE Confidence: 0.902902842941177  
00:01:26.610 --> 00:01:28.188 she moved to Yale in 2020,  
NOTE Confidence: 0.902902842941177  
00:01:28.190 --> 00:01:29.470 so still a relative newcomer.  
NOTE Confidence: 0.902902842941177  
00:01:29.470 --> 00:01:30.518 As we were saying,  
NOTE Confidence: 0.902902842941177  
00:01:30.518 --> 00:01:32.730 and she's now division chief of ambulatory.  
NOTE Confidence: 0.902902842941177  
00:01:32.730 --> 00:01:34.991 Anesthesiology so she is an active member  
NOTE Confidence: 0.902902842941177

00:01:34.991 --> 00:01:37.520 of the Society for Ambulatory Anesthesia.

NOTE Confidence: 0.902902842941177

00:01:37.520 --> 00:01:38.834 She Co chairs,

NOTE Confidence: 0.902902842941177

00:01:38.834 --> 00:01:40.586 the Anesthesia Education committee.

NOTE Confidence: 0.902902842941177

00:01:40.590 --> 00:01:42.390 She is also a member of the New York

NOTE Confidence: 0.902902842941177

00:01:42.390 --> 00:01:44.601 State Society of Anesthesiologist and the

NOTE Confidence: 0.902902842941177

00:01:44.601 --> 00:01:46.169 American Society of Anesthesiologists.

NOTE Confidence: 0.902902842941177

00:01:46.170 --> 00:01:47.810 She has received numerous awards

NOTE Confidence: 0.902902842941177

00:01:47.810 --> 00:01:49.122 really throughout her career,

NOTE Confidence: 0.902902842941177

00:01:49.130 --> 00:01:49.720 including intranet,

NOTE Confidence: 0.902902842941177

00:01:49.720 --> 00:01:51.490 the year resident of the Year,

NOTE Confidence: 0.902902842941177

00:01:51.490 --> 00:01:53.110 Outstanding Mentor of the year,

NOTE Confidence: 0.902902842941177

00:01:53.110 --> 00:01:54.454 several Faculty research awards,

NOTE Confidence: 0.902902842941177

00:01:54.454 --> 00:01:56.960 and even during her time here at Yale,

NOTE Confidence: 0.902902842941177

00:01:56.960 --> 00:01:59.198 she received a faculty Award for

NOTE Confidence: 0.902902842941177

00:01:59.198 --> 00:02:01.440 Excellence in Education and Leadership.

NOTE Confidence: 0.902902842941177

00:02:01.440 --> 00:02:03.305 Her work has been published

NOTE Confidence: 0.902902842941177  
00:02:03.305 --> 00:02:04.797 in diverse journals including  
NOTE Confidence: 0.902902842941177  
00:02:04.797 --> 00:02:05.880 anesthesiologist laryngoscope,  
NOTE Confidence: 0.902902842941177  
00:02:05.880 --> 00:02:07.326 anesthesiology and analgesia.  
NOTE Confidence: 0.902902842941177  
00:02:07.326 --> 00:02:09.254 Journal of Emergency Medicine,  
NOTE Confidence: 0.902902842941177  
00:02:09.260 --> 00:02:10.660 Journal of Quality Health.  
NOTE Confidence: 0.902902842941177  
00:02:10.660 --> 00:02:12.060 So really diverse group.  
NOTE Confidence: 0.902902842941177  
00:02:12.060 --> 00:02:14.146 She's currently a member of a combined  
NOTE Confidence: 0.902902842941177  
00:02:14.146 --> 00:02:15.788 writing group including members from  
NOTE Confidence: 0.902902842941177  
00:02:15.788 --> 00:02:17.538 the Society for Ambulatory Anesthesia,  
NOTE Confidence: 0.902902842941177  
00:02:17.540 --> 00:02:19.736 Society of Anesthesia and Sleep Medicine,  
NOTE Confidence: 0.902902842941177  
00:02:19.740 --> 00:02:20.920 and Society of Critical Care.  
NOTE Confidence: 0.902902842941177  
00:02:20.920 --> 00:02:22.985 Anesthesiologists who have been developing  
NOTE Confidence: 0.902902842941177  
00:02:22.985 --> 00:02:24.637 guidelines for the perioperative  
NOTE Confidence: 0.902902842941177  
00:02:24.637 --> 00:02:26.500 management of patients with sleep apnea,  
NOTE Confidence: 0.902902842941177  
00:02:26.500 --> 00:02:28.078 so this is a really timely  
NOTE Confidence: 0.902902842941177

00:02:28.078 --> 00:02:28.867 and important topic,  
NOTE Confidence: 0.902902842941177

00:02:28.870 --> 00:02:30.262 and I'm so pleased that Doctor  
NOTE Confidence: 0.902902842941177

00:02:30.262 --> 00:02:31.660 \*\*\*\*\* can join us today.  
NOTE Confidence: 0.902902842941177

00:02:31.660 --> 00:02:32.240 So welcome.  
NOTE Confidence: 0.909297801818182

00:02:33.410 --> 00:02:35.012 Thank you so much Doctor Hilbert  
NOTE Confidence: 0.909297801818182

00:02:35.012 --> 00:02:36.790 for that really kind introduction.  
NOTE Confidence: 0.909297801818182

00:02:36.790 --> 00:02:38.245 I'm really thrilled with the  
NOTE Confidence: 0.909297801818182

00:02:38.245 --> 00:02:39.409 opportunity to speak today,  
NOTE Confidence: 0.909297801818182

00:02:39.410 --> 00:02:42.378 and I'm also humbled to be speaking to  
NOTE Confidence: 0.909297801818182

00:02:42.378 --> 00:02:45.049 an audience that is so expert in OSA.  
NOTE Confidence: 0.909297801818182

00:02:45.050 --> 00:02:47.360 But hoping that I can provide some  
NOTE Confidence: 0.909297801818182

00:02:47.360 --> 00:02:49.723 insight into our sort of everyday  
NOTE Confidence: 0.909297801818182

00:02:49.723 --> 00:02:51.467 experience of as anesthesiologists  
NOTE Confidence: 0.909297801818182

00:02:51.467 --> 00:02:53.674 in caring for and providing the best  
NOTE Confidence: 0.909297801818182

00:02:53.674 --> 00:02:55.540 possible care for this challenging,  
NOTE Confidence: 0.909297801818182

00:02:55.540 --> 00:02:57.028 patient and population which

NOTE Confidence: 0.909297801818182  
00:02:57.028 --> 00:02:58.888 you all know very well.  
NOTE Confidence: 0.909297801818182  
00:02:58.890 --> 00:03:01.125 I have no disclosures related  
NOTE Confidence: 0.909297801818182  
00:03:01.125 --> 00:03:04.159 to the talk today and the CME.  
NOTE Confidence: 0.909297801818182  
00:03:04.160 --> 00:03:08.440 Voters here. So this will be well  
NOTE Confidence: 0.909297801818182  
00:03:08.440 --> 00:03:10.140 known to this audience today.  
NOTE Confidence: 0.909297801818182  
00:03:10.140 --> 00:03:11.499 But you know,  
NOTE Confidence: 0.909297801818182  
00:03:11.499 --> 00:03:14.217 OSA has a tremendous prevalence worldwide,  
NOTE Confidence: 0.909297801818182  
00:03:14.220 --> 00:03:15.680 with an estimated overall  
NOTE Confidence: 0.909297801818182  
00:03:15.680 --> 00:03:17.140 prevalence of 1 billion,  
NOTE Confidence: 0.909297801818182  
00:03:17.140 --> 00:03:19.780 with 425 million patients in the  
NOTE Confidence: 0.909297801818182  
00:03:19.780 --> 00:03:22.023 moderate to severe category based  
NOTE Confidence: 0.909297801818182  
00:03:22.023 --> 00:03:24.038 on American Academy of Sleep  
NOTE Confidence: 0.909297801818182  
00:03:24.038 --> 00:03:26.540 Medicine to the 2012 guidelines.  
NOTE Confidence: 0.909297801818182  
00:03:26.540 --> 00:03:28.646 And if you overlay that with  
NOTE Confidence: 0.909297801818182  
00:03:28.646 --> 00:03:30.700 the global volume of surgery,  
NOTE Confidence: 0.909297801818182

00:03:30.700 --> 00:03:32.488 which is just tremendous,  
NOTE Confidence: 0.909297801818182

00:03:32.488 --> 00:03:34.276 you know several 100,000,000.  
NOTE Confidence: 0.909297801818182

00:03:34.280 --> 00:03:36.810 It just really speaks to.  
NOTE Confidence: 0.909297801818182

00:03:36.810 --> 00:03:39.210 The volume of this problem of  
NOTE Confidence: 0.909297801818182

00:03:39.210 --> 00:03:40.810 caring for these patients,  
NOTE Confidence: 0.909297801818182

00:03:40.810 --> 00:03:42.770 who are as I'll discuss,  
NOTE Confidence: 0.909297801818182

00:03:42.770 --> 00:03:45.610 at elevated risk of perioperative  
NOTE Confidence: 0.909297801818182

00:03:45.610 --> 00:03:46.178 complications.  
NOTE Confidence: 0.8984026

00:03:48.270 --> 00:03:50.606 And because of the volume of the problem,  
NOTE Confidence: 0.8984026

00:03:50.610 --> 00:03:52.164 there is quite a volume of  
NOTE Confidence: 0.8984026

00:03:52.164 --> 00:03:53.200 literature on the topic,  
NOTE Confidence: 0.8984026

00:03:53.200 --> 00:03:55.013 and it was a challenge to figure  
NOTE Confidence: 0.8984026

00:03:55.013 --> 00:03:57.017 out exactly what to focus in on in  
NOTE Confidence: 0.8984026

00:03:57.017 --> 00:03:59.138 preparing for the talk for all of you today.  
NOTE Confidence: 0.8984026

00:03:59.140 --> 00:04:00.805 So before I get into the bulk of it,  
NOTE Confidence: 0.8984026

00:04:00.810 --> 00:04:02.442 I just want to give this disclaimer and



NOTE Confidence: 0.8984026

00:04:02.442 --> 00:04:04.551 it's a quote from a recent review article

NOTE Confidence: 0.8984026

00:04:04.551 --> 00:04:06.150 published in anesthesia and Analgesia.

NOTE Confidence: 0.8984026

00:04:06.150 --> 00:04:08.362 One of our main journals on the

NOTE Confidence: 0.8984026

00:04:08.362 --> 00:04:09.749 topic of perioperative management

NOTE Confidence: 0.8984026

00:04:09.749 --> 00:04:11.249 of patients with OSA,

NOTE Confidence: 0.8984026

00:04:11.250 --> 00:04:13.539 and that is that despite a plethora

NOTE Confidence: 0.8984026

00:04:13.539 --> 00:04:15.501 of clinical evidence delineating the

NOTE Confidence: 0.8984026

00:04:15.501 --> 00:04:17.796 perioperative risk associated with OSA,

NOTE Confidence: 0.8984026

00:04:17.800 --> 00:04:19.627 much of which I'll go over today.

NOTE Confidence: 0.8984026

00:04:19.630 --> 00:04:21.485 Scientific data on the efficacy

NOTE Confidence: 0.8984026

00:04:21.485 --> 00:04:22.969 of perioperative safety measures

NOTE Confidence: 0.8984026

00:04:22.969 --> 00:04:24.269 are largely lacking,

NOTE Confidence: 0.8984026

00:04:24.270 --> 00:04:26.172 so a lot of those recommendations

NOTE Confidence: 0.8984026

00:04:26.172 --> 00:04:28.122 are really still based on expert

NOTE Confidence: 0.8984026

00:04:28.122 --> 00:04:29.988 opinion for maybe lower levels of

NOTE Confidence: 0.8984026

00:04:29.988 --> 00:04:32.071 evidence at this point and then also  
NOTE Confidence: 0.8984026

00:04:32.071 --> 00:04:33.733 of interest to the audience today.  
NOTE Confidence: 0.8984026

00:04:33.740 --> 00:04:34.081 Moreover,  
NOTE Confidence: 0.8984026

00:04:34.081 --> 00:04:35.786 OSA is increasingly acknowledged as  
NOTE Confidence: 0.8984026

00:04:35.786 --> 00:04:37.582 a complex condition with significant  
NOTE Confidence: 0.8984026

00:04:37.582 --> 00:04:39.874 heterogeneity in terms of disease severity,  
NOTE Confidence: 0.8984026

00:04:39.880 --> 00:04:40.310 comorbidity,  
NOTE Confidence: 0.8984026

00:04:40.310 --> 00:04:42.030 burden and complication risks.  
NOTE Confidence: 0.8984026

00:04:42.030 --> 00:04:43.620 So, as you all know,  
NOTE Confidence: 0.8984026

00:04:43.620 --> 00:04:44.996 far in far more detail than I do.  
NOTE Confidence: 0.8984026

00:04:45.000 --> 00:04:46.470 There are many phenotypes of OSA  
NOTE Confidence: 0.8984026

00:04:46.470 --> 00:04:48.367 and so that makes the study of  
NOTE Confidence: 0.8984026

00:04:48.367 --> 00:04:49.807 this problem in the perioperative.  
NOTE Confidence: 0.8984026

00:04:49.810 --> 00:04:50.122 Period,  
NOTE Confidence: 0.8984026

00:04:50.122 --> 00:04:51.994 you know ever more complex and  
NOTE Confidence: 0.8984026

00:04:51.994 --> 00:04:53.300 and something that's gonna,

NOTE Confidence: 0.8984026  
00:04:53.300 --> 00:04:53.952 you know,  
NOTE Confidence: 0.8984026  
00:04:53.952 --> 00:04:56.484 take a lot more you know body  
NOTE Confidence: 0.8984026  
00:04:56.484 --> 00:04:58.524 of literature in the future.  
NOTE Confidence: 0.8984026  
00:04:58.530 --> 00:05:00.866 So with that sort of disclaimer in mind,  
NOTE Confidence: 0.8984026  
00:05:00.870 --> 00:05:02.700 the learning objectives for the next  
NOTE Confidence: 0.8984026  
00:05:02.700 --> 00:05:05.127 40 minutes or so of this talk for  
NOTE Confidence: 0.8984026  
00:05:05.127 --> 00:05:06.849 you are to lift the perioperative  
NOTE Confidence: 0.8984026  
00:05:06.915 --> 00:05:08.930 adverse events associated with OSA.  
NOTE Confidence: 0.8984026  
00:05:08.930 --> 00:05:10.698 Review recommendations for the  
NOTE Confidence: 0.8984026  
00:05:10.698 --> 00:05:12.908 perative management of OSA patients,  
NOTE Confidence: 0.8984026  
00:05:12.910 --> 00:05:15.164 identify gaps in evidence for the rabbit.  
NOTE Confidence: 0.8984026  
00:05:15.170 --> 00:05:17.240 If management OSA patients that warrant  
NOTE Confidence: 0.8984026  
00:05:17.240 --> 00:05:19.112 research and then possibly inspire one  
NOTE Confidence: 0.8984026  
00:05:19.112 --> 00:05:21.549 or more of you who are here at Yale to see.  
NOTE Confidence: 0.8984026  
00:05:21.550 --> 00:05:24.525 How we can work within our institution  
NOTE Confidence: 0.8984026

00:05:24.525 --> 00:05:27.176 to possibly improve the pathways for  
NOTE Confidence: 0.8984026

00:05:27.176 --> 00:05:29.768 perative care for our patients here?  
NOTE Confidence: 0.8984026

00:05:29.770 --> 00:05:30.662 So as I said,  
NOTE Confidence: 0.8984026

00:05:30.662 --> 00:05:31.777 there's a plethora of literature  
NOTE Confidence: 0.8984026

00:05:31.777 --> 00:05:32.549 on this topic,  
NOTE Confidence: 0.8984026

00:05:32.550 --> 00:05:34.038 and there are a plethora of  
NOTE Confidence: 0.8984026

00:05:34.038 --> 00:05:35.030 guidelines on this topic,  
NOTE Confidence: 0.8984026

00:05:35.030 --> 00:05:37.140 probably because of the just  
NOTE Confidence: 0.8984026

00:05:37.140 --> 00:05:38.828 magnitude of the problem.  
NOTE Confidence: 0.8984026

00:05:38.830 --> 00:05:40.666 So these are the available guidelines  
NOTE Confidence: 0.8984026

00:05:40.666 --> 00:05:42.375 right now for the perioperative  
NOTE Confidence: 0.8984026

00:05:42.375 --> 00:05:44.510 management of patients with OSA,  
NOTE Confidence: 0.8984026

00:05:44.510 --> 00:05:46.562 and they all really do still have a place,  
NOTE Confidence: 0.8984026

00:05:46.570 --> 00:05:47.536 despite some of them being a  
NOTE Confidence: 0.8984026

00:05:47.536 --> 00:05:48.609 little bit on the older side.  
NOTE Confidence: 0.8984026

00:05:48.610 --> 00:05:50.810 So the Society of ambulatory

NOTE Confidence: 0.8984026

00:05:50.810 --> 00:05:52.570 anesthesia guidelines or Samba

NOTE Confidence: 0.8984026

00:05:52.570 --> 00:05:54.190 guidelines are now a decade old,

NOTE Confidence: 0.8984026

00:05:54.190 --> 00:05:56.549 but are still really do inform my

NOTE Confidence: 0.8984026

00:05:56.549 --> 00:05:58.609 clinical decision making on a daily basis.

NOTE Confidence: 0.8984026

00:05:58.610 --> 00:06:00.164 And I will be touching upon those.

NOTE Confidence: 0.8984026

00:06:00.170 --> 00:06:02.780 Abet as an inventory anesthesiologist

NOTE Confidence: 0.8984026

00:06:02.780 --> 00:06:04.664 our main professional society,

NOTE Confidence: 0.8984026

00:06:04.664 --> 00:06:07.019 the American Society of Anesthesiologists

NOTE Confidence: 0.8984026

00:06:07.019 --> 00:06:08.993 guidelines were last updated in 2013

NOTE Confidence: 0.8984026

00:06:08.993 --> 00:06:11.425 and are probably the most well known

NOTE Confidence: 0.8984026

00:06:11.425 --> 00:06:13.277 among clinical anesthesiologist sasom,

NOTE Confidence: 0.8984026

00:06:13.280 --> 00:06:15.638 the Society of Anesthesia and Sleep

NOTE Confidence: 0.8984026

00:06:15.638 --> 00:06:17.210 Medicine has preoperative guidelines

NOTE Confidence: 0.8984026

00:06:17.271 --> 00:06:19.434 from 2016 as well as intra operative

NOTE Confidence: 0.8984026

00:06:19.434 --> 00:06:21.172 guidelines for 2018 and the work

NOTE Confidence: 0.8984026

00:06:21.172 --> 00:06:22.840 in progress that I'm part of.  
NOTE Confidence: 0.8984026

00:06:22.840 --> 00:06:25.018 The writing group is for the  
NOTE Confidence: 0.8984026

00:06:25.018 --> 00:06:26.107 post operative guidelines,  
NOTE Confidence: 0.8984026

00:06:26.110 --> 00:06:27.450 which will hopefully be published  
NOTE Confidence: 0.8984026

00:06:27.450 --> 00:06:28.790 in the next year or  
NOTE Confidence: 0.891997541818182

00:06:28.848 --> 00:06:30.053 so. There are guidelines  
NOTE Confidence: 0.891997541818182

00:06:30.053 --> 00:06:31.808 specific to patients with OSA.  
NOTE Confidence: 0.891997541818182

00:06:31.810 --> 00:06:33.485 Having bariatric surgery since it's  
NOTE Confidence: 0.891997541818182

00:06:33.485 --> 00:06:35.160 obviously going to be prevalent  
NOTE Confidence: 0.891997541818182

00:06:35.216 --> 00:06:36.751 problem in that patient population  
NOTE Confidence: 0.891997541818182

00:06:36.751 --> 00:06:38.336 and then also of interest.  
NOTE Confidence: 0.891997541818182

00:06:38.336 --> 00:06:39.946 The most recent guidelines to  
NOTE Confidence: 0.891997541818182

00:06:39.946 --> 00:06:41.766 be published back in 2019 are  
NOTE Confidence: 0.891997541818182

00:06:41.766 --> 00:06:43.166 specific to patients with OSA.  
NOTE Confidence: 0.891997541818182

00:06:43.170 --> 00:06:44.330 Have been having upper airway  
NOTE Confidence: 0.891997541818182

00:06:44.330 --> 00:06:45.773 surgery and I'm going to highlight

NOTE Confidence: 0.891997541818182  
00:06:45.773 --> 00:06:47.397 these a little bit because of my  
NOTE Confidence: 0.891997541818182  
00:06:47.397 --> 00:06:48.988 interest in head and neck anesthesia.  
NOTE Confidence: 0.891997541818182  
00:06:48.990 --> 00:06:50.698 So I care for these patients pretty  
NOTE Confidence: 0.891997541818182  
00:06:50.698 --> 00:06:51.903 frequently and also because I  
NOTE Confidence: 0.891997541818182  
00:06:51.903 --> 00:06:53.394 thought it would be of interest to  
NOTE Confidence: 0.891997541818182  
00:06:53.394 --> 00:06:54.942 you as Sleep Medicine specialists  
NOTE Confidence: 0.891997541818182  
00:06:54.942 --> 00:06:56.230 today because your patients,  
NOTE Confidence: 0.891997541818182  
00:06:56.230 --> 00:06:58.805 you know obviously present for  
NOTE Confidence: 0.891997541818182  
00:06:58.805 --> 00:06:59.835 these surgeries.  
NOTE Confidence: 0.891997541818182  
00:06:59.840 --> 00:07:01.460 So the for the first portion  
NOTE Confidence: 0.891997541818182  
00:07:01.460 --> 00:07:03.800 of the talk I'll focus in on an  
NOTE Confidence: 0.891997541818182  
00:07:03.800 --> 00:07:05.300 adverse events and the evidence  
NOTE Confidence: 0.891997541818182  
00:07:05.300 --> 00:07:07.676 for our patients with OSA being at  
NOTE Confidence: 0.891997541818182  
00:07:07.676 --> 00:07:09.460 elevated risk for adverse events  
NOTE Confidence: 0.891997541818182  
00:07:09.460 --> 00:07:11.220 in the perioperative period.  
NOTE Confidence: 0.891997541818182

00:07:11.220 --> 00:07:13.159 So the literature and this is heterogeneous.  
NOTE Confidence: 0.891997541818182

00:07:13.160 --> 00:07:15.610 We do have a meta analysis that  
NOTE Confidence: 0.891997541818182

00:07:15.610 --> 00:07:18.035 I'd like to highlight here that's  
NOTE Confidence: 0.891997541818182

00:07:18.035 --> 00:07:20.440 has a series of cohort studies  
NOTE Confidence: 0.891997541818182

00:07:20.440 --> 00:07:21.800 and case control studies.  
NOTE Confidence: 0.891997541818182

00:07:21.800 --> 00:07:23.204 17 studies in all,  
NOTE Confidence: 0.891997541818182

00:07:23.204 --> 00:07:25.980 and when these studies were pooled together,  
NOTE Confidence: 0.891997541818182

00:07:25.980 --> 00:07:28.284 there was an increased risk of  
NOTE Confidence: 0.891997541818182

00:07:28.284 --> 00:07:30.292 respiratory failure found for patients  
NOTE Confidence: 0.891997541818182

00:07:30.292 --> 00:07:32.704 with OSA relative to those without.  
NOTE Confidence: 0.891997541818182

00:07:32.710 --> 00:07:34.378 That includes reactivation,  
NOTE Confidence: 0.891997541818182

00:07:34.378 --> 00:07:36.046 prolonged mechanical ventilation,  
NOTE Confidence: 0.891997541818182

00:07:36.050 --> 00:07:36.581 etc,  
NOTE Confidence: 0.891997541818182

00:07:36.581 --> 00:07:39.767 as well as cardiac events including  
NOTE Confidence: 0.891997541818182

00:07:39.767 --> 00:07:41.360 acute myocardial infarction.  
NOTE Confidence: 0.891997541818182

00:07:41.360 --> 00:07:43.320 Arrhythmia is cardiac arrests



NOTE Confidence: 0.891997541818182  
00:07:43.320 --> 00:07:45.770 as well as icing transfer,  
NOTE Confidence: 0.891997541818182  
00:07:45.770 --> 00:07:47.288 so the overall risk is elevated,  
NOTE Confidence: 0.891997541818182  
00:07:47.290 --> 00:07:49.066 but when you look at the individual studies,  
NOTE Confidence: 0.891997541818182  
00:07:49.070 --> 00:07:51.104 the results are really quite heterogeneous  
NOTE Confidence: 0.891997541818182  
00:07:51.104 --> 00:07:53.271 and it probably speaks to the fact  
NOTE Confidence: 0.891997541818182  
00:07:53.271 --> 00:07:55.021 that the method of diagnosis of OSA,  
NOTE Confidence: 0.891997541818182  
00:07:55.030 --> 00:07:56.445 whether the gold standard price  
NOTE Confidence: 0.891997541818182  
00:07:56.445 --> 00:07:57.856 \*\*\*\*\* versus screening,  
NOTE Confidence: 0.891997541818182  
00:07:57.856 --> 00:08:01.964 is variable between studies as well as.  
NOTE Confidence: 0.891997541818182  
00:08:01.964 --> 00:08:04.436 The adherence to prescribed  
NOTE Confidence: 0.891997541818182  
00:08:04.436 --> 00:08:07.919 treatment is variable across studies.  
NOTE Confidence: 0.891997541818182  
00:08:07.920 --> 00:08:09.560 So just to really drive home this point,  
NOTE Confidence: 0.891997541818182  
00:08:09.560 --> 00:08:12.430 I wanted to share this table from  
NOTE Confidence: 0.891997541818182  
00:08:12.430 --> 00:08:13.660 Sassins preoperative guidelines,  
NOTE Confidence: 0.891997541818182  
00:08:13.660 --> 00:08:16.084 which summarizes the literature on the  
NOTE Confidence: 0.891997541818182

00:08:16.084 --> 00:08:18.139 elevated risk of complications from  
NOTE Confidence: 0.891997541818182

00:08:18.139 --> 00:08:20.395 patients having OSA in aperitive period.  
NOTE Confidence: 0.891997541818182

00:08:20.400 --> 00:08:22.626 And if you look in at pulmonary  
NOTE Confidence: 0.891997541818182

00:08:22.626 --> 00:08:23.580 complications in particular,  
NOTE Confidence: 0.891997541818182

00:08:23.580 --> 00:08:24.625 really all the studies looked  
NOTE Confidence: 0.891997541818182

00:08:24.625 --> 00:08:26.040 at that as a possible outcome,  
NOTE Confidence: 0.891997541818182

00:08:26.040 --> 00:08:28.025 which makes sense given the  
NOTE Confidence: 0.891997541818182

00:08:28.025 --> 00:08:29.216 pathophysiology of OSA.  
NOTE Confidence: 0.891997541818182

00:08:29.220 --> 00:08:30.756 Of those 17 studies,  
NOTE Confidence: 0.891997541818182

00:08:30.756 --> 00:08:33.680 11 found that OSA was predictive of  
NOTE Confidence: 0.891997541818182

00:08:33.680 --> 00:08:36.400 increased risk of pulmonary complications,  
NOTE Confidence: 0.891997541818182

00:08:36.400 --> 00:08:37.501 but six phones.  
NOTE Confidence: 0.891997541818182

00:08:37.501 --> 00:08:39.703 No impact of OSA on increased  
NOTE Confidence: 0.891997541818182

00:08:39.703 --> 00:08:42.139 risk of pulmonary complications.  
NOTE Confidence: 0.891997541818182

00:08:42.140 --> 00:08:44.520 When it comes to a cardiac complications,  
NOTE Confidence: 0.891997541818182

00:08:44.520 --> 00:08:46.536 2 of the 11 studies did show

NOTE Confidence: 0.891997541818182  
00:08:46.536 --> 00:08:48.079 that there was a doctor.  
NOTE Confidence: 0.891997541818182  
00:08:48.080 --> 00:08:50.108 Mental impact of OSA on the  
NOTE Confidence: 0.891997541818182  
00:08:50.108 --> 00:08:51.460 risk of cardiac complications,  
NOTE Confidence: 0.891997541818182  
00:08:51.460 --> 00:08:54.820 but nine found no significant difference  
NOTE Confidence: 0.891997541818182  
00:08:54.820 --> 00:08:56.588 and then really, interestingly,  
NOTE Confidence: 0.891997541818182  
00:08:56.588 --> 00:08:58.798 when it comes to mortality,  
NOTE Confidence: 0.891997541818182  
00:08:58.800 --> 00:09:01.019 there have been 13 studies that have  
NOTE Confidence: 0.891997541818182  
00:09:01.019 --> 00:09:03.146 reported on whether OSA increases the  
NOTE Confidence: 0.891997541818182  
00:09:03.146 --> 00:09:04.638 risk for mortality perioperatively  
NOTE Confidence: 0.891997541818182  
00:09:04.638 --> 00:09:06.499 and one found that it did.  
NOTE Confidence: 0.891997541818182  
00:09:06.500 --> 00:09:08.402 Nine found that there was no  
NOTE Confidence: 0.891997541818182  
00:09:08.402 --> 00:09:09.036 significant impact,  
NOTE Confidence: 0.891997541818182  
00:09:09.040 --> 00:09:11.050 and three studies actually found a  
NOTE Confidence: 0.891997541818182  
00:09:11.050 --> 00:09:13.050 beneficial impact of obstructive sleep apnea.  
NOTE Confidence: 0.891997541818182  
00:09:13.050 --> 00:09:15.130 On patients mortality after surgery,  
NOTE Confidence: 0.891997541818182

00:09:15.130 --> 00:09:16.888 which probably speaks to the fact  
NOTE Confidence: 0.891997541818182

00:09:16.888 --> 00:09:18.499 that maybe these patients underwent  
NOTE Confidence: 0.891997541818182

00:09:18.499 --> 00:09:20.047 greater levels of monitoring,  
NOTE Confidence: 0.891997541818182

00:09:20.050 --> 00:09:21.782 there was heightened vigilance  
NOTE Confidence: 0.891997541818182

00:09:21.782 --> 00:09:23.947 surrounding their care or possibly  
NOTE Confidence: 0.891997541818182

00:09:23.950 --> 00:09:25.602 positive area pressure treatment.  
NOTE Confidence: 0.891997541818182

00:09:25.602 --> 00:09:27.667 But this doesn't mean that  
NOTE Confidence: 0.891997541818182

00:09:27.667 --> 00:09:29.270 as anesthesiologist,  
NOTE Confidence: 0.737679468461539

00:09:29.270 --> 00:09:30.682 as para poder physicians,  
NOTE Confidence: 0.737679468461539

00:09:30.682 --> 00:09:32.447 we don't worry about mortality  
NOTE Confidence: 0.737679468461539

00:09:32.447 --> 00:09:33.859 for our OSA patients.  
NOTE Confidence: 0.737679468461539

00:09:33.860 --> 00:09:36.044 Of course, we do think it's just  
NOTE Confidence: 0.737679468461539

00:09:36.044 --> 00:09:38.380 luckily a rare complication due to,  
NOTE Confidence: 0.737679468461539

00:09:38.380 --> 00:09:39.704 you know, heightened vigilance.  
NOTE Confidence: 0.737679468461539

00:09:39.704 --> 00:09:41.028 But that being said,  
NOTE Confidence: 0.737679468461539

00:09:41.030 --> 00:09:43.010 there are definitely reports of

NOTE Confidence: 0.737679468461539  
00:09:43.010 --> 00:09:44.990 mismanagement of OSA patients in  
NOTE Confidence: 0.737679468461539  
00:09:45.060 --> 00:09:47.050 the perioperative period leading to  
NOTE Confidence: 0.737679468461539  
00:09:47.050 --> 00:09:49.134 what this editorial author writes.  
NOTE Confidence: 0.737679468461539  
00:09:49.134 --> 00:09:50.520 So bluntly, those patients  
NOTE Confidence: 0.737679468461539  
00:09:50.520 --> 00:09:51.845 being found dead in bed.  
NOTE Confidence: 0.737679468461539  
00:09:51.850 --> 00:09:53.474 And I think this is the kind of  
NOTE Confidence: 0.737679468461539  
00:09:53.474 --> 00:09:54.836 scenario that really keeps you  
NOTE Confidence: 0.737679468461539  
00:09:54.836 --> 00:09:56.048 up at night anesthesiologists.  
NOTE Confidence: 0.737679468461539  
00:09:56.050 --> 00:09:59.200 If we miss the diagnosis if.  
NOTE Confidence: 0.737679468461539  
00:09:59.200 --> 00:10:01.587 Don't don't plan for an elevated level  
NOTE Confidence: 0.737679468461539  
00:10:01.587 --> 00:10:03.186 of monitoring postoperatively in a  
NOTE Confidence: 0.737679468461539  
00:10:03.186 --> 00:10:05.020 patient that would have benefited from it.  
NOTE Confidence: 0.737679468461539  
00:10:05.020 --> 00:10:06.100 Could one of our patients  
NOTE Confidence: 0.737679468461539  
00:10:06.100 --> 00:10:07.180 be found dead in bed?  
NOTE Confidence: 0.737679468461539  
00:10:07.180 --> 00:10:09.608 And in this editorial  
NOTE Confidence: 0.8822315675

00:10:10.200 --> 00:10:11.688 the author highlighted 12  
NOTE Confidence: 0.837486471428571

00:10:12.140 --> 00:10:13.553 closed claims analysis  
NOTE Confidence: 0.837486471428571

00:10:13.553 --> 00:10:15.899 closed claim study is closed,  
NOTE Confidence: 0.837486471428571

00:10:15.899 --> 00:10:19.112 claims cases rather of the patients with  
NOTE Confidence: 0.837486471428571

00:10:19.112 --> 00:10:22.699 OSA were just that exactly that happened.  
NOTE Confidence: 0.837486471428571

00:10:22.700 --> 00:10:24.638 So because death is so rare,  
NOTE Confidence: 0.837486471428571

00:10:24.640 --> 00:10:26.362 the best way to study it really  
NOTE Confidence: 0.837486471428571

00:10:26.362 --> 00:10:28.219 is going to be through case  
NOTE Confidence: 0.837486471428571

00:10:28.219 --> 00:10:29.974 series and medical legal reports.  
NOTE Confidence: 0.837486471428571

00:10:29.980 --> 00:10:33.816 And this study of 60 patients total  
NOTE Confidence: 0.837486471428571

00:10:33.816 --> 00:10:37.619 looked at those who died related to  
NOTE Confidence: 0.837486471428571

00:10:37.620 --> 00:10:39.720 OSA in the postoperative period or  
NOTE Confidence: 0.837486471428571

00:10:39.720 --> 00:10:42.214 had a noxious brain injury as well  
NOTE Confidence: 0.837486471428571

00:10:42.214 --> 00:10:44.056 as those who had very critical  
NOTE Confidence: 0.837486471428571

00:10:44.056 --> 00:10:45.683 respiratory events are near death  
NOTE Confidence: 0.837486471428571

00:10:45.683 --> 00:10:47.268 patients who had cardiac arrest.

NOTE Confidence: 0.837486471428571

00:10:47.270 --> 00:10:49.573 But where we cited in patients with

NOTE Confidence: 0.837486471428571

00:10:49.573 --> 00:10:52.262 heart block also related to OSA and.

NOTE Confidence: 0.837486471428571

00:10:52.262 --> 00:10:53.284 Interestingly importantly,

NOTE Confidence: 0.837486471428571

00:10:53.284 --> 00:10:56.350 the vast majority of events were

NOTE Confidence: 0.837486471428571

00:10:56.432 --> 00:10:58.987 in the 1st 24 hours after surgery,

NOTE Confidence: 0.837486471428571

00:10:58.990 --> 00:11:00.565 so that seems to be the really

NOTE Confidence: 0.837486471428571

00:11:00.565 --> 00:11:01.972 critical time period and the majority

NOTE Confidence: 0.837486471428571

00:11:01.972 --> 00:11:03.575 happened on the floor as opposed to

NOTE Confidence: 0.837486471428571

00:11:03.624 --> 00:11:05.080 in operating room or in the pacu,

NOTE Confidence: 0.837486471428571

00:11:05.080 --> 00:11:07.018 where there's higher levels of monitoring.

NOTE Confidence: 0.891966842941176

00:11:09.420 --> 00:11:13.200 There can also be lessons learned from

NOTE Confidence: 0.891966842941176

00:11:13.200 --> 00:11:16.234 comparing those patients who had death

NOTE Confidence: 0.891966842941176

00:11:16.234 --> 00:11:19.800 or anoxic brain injury to those who

NOTE Confidence: 0.891966842941176

00:11:19.800 --> 00:11:22.800 who had respiratory adverse events,

NOTE Confidence: 0.891966842941176

00:11:22.800 --> 00:11:26.591 to see which ones end to

NOTE Confidence: 0.891966842941176

00:11:26.591 --> 00:11:29.546 see which factors may have.  
NOTE Confidence: 0.891966842941176

00:11:29.550 --> 00:11:31.554 Increase their risk for actual death  
NOTE Confidence: 0.891966842941176

00:11:31.554 --> 00:11:33.589 and a future study. I'll show next.  
NOTE Confidence: 0.891966842941176

00:11:33.589 --> 00:11:35.450 Will will elaborate on that a little bit,  
NOTE Confidence: 0.891966842941176

00:11:35.450 --> 00:11:38.132 but I also just briefly wanted to point out  
NOTE Confidence: 0.891966842941176

00:11:38.132 --> 00:11:40.665 that of those 60 patients in this study,  
NOTE Confidence: 0.891966842941176

00:11:40.670 --> 00:11:44.086 35 of them had diagnosed OSA preoperatively.  
NOTE Confidence: 0.891966842941176

00:11:44.090 --> 00:11:48.086 11 of those 35 were on preoperative C Pap.  
NOTE Confidence: 0.891966842941176

00:11:48.090 --> 00:11:49.002 The remaining were not,  
NOTE Confidence: 0.891966842941176

00:11:49.002 --> 00:11:50.929 and then only four of those eleven were  
NOTE Confidence: 0.891966842941176

00:11:50.929 --> 00:11:52.714 on who are on preoperative have actually  
NOTE Confidence: 0.891966842941176

00:11:52.714 --> 00:11:54.268 used their seat post operatively,  
NOTE Confidence: 0.891966842941176

00:11:54.270 --> 00:11:57.784 so not using CPAP or you know,  
NOTE Confidence: 0.891966842941176

00:11:57.790 --> 00:11:59.407 not using it in the postoperative period.  
NOTE Confidence: 0.891966842941176

00:11:59.410 --> 00:12:00.620 When I was prescribed Preoperatively  
NOTE Confidence: 0.891966842941176

00:12:00.620 --> 00:12:01.830 could have been risk factors.



NOTE Confidence: 0.891966842941176  
00:12:01.830 --> 00:12:02.586 For those patients,  
NOTE Confidence: 0.891966842941176  
00:12:02.586 --> 00:12:03.846 and then also of note,  
NOTE Confidence: 0.891966842941176  
00:12:03.850 --> 00:12:06.034 the majority of patients and with these  
NOTE Confidence: 0.891966842941176  
00:12:06.034 --> 00:12:07.605 really critical adverse events and  
NOTE Confidence: 0.891966842941176  
00:12:07.605 --> 00:12:09.357 deaths we're receiving less than 10  
NOTE Confidence: 0.891966842941176  
00:12:09.357 --> 00:12:11.429 milligram of morphine equivalents per day,  
NOTE Confidence: 0.891966842941176  
00:12:11.430 --> 00:12:13.320 which suggests that it's a very modest  
NOTE Confidence: 0.891966842941176  
00:12:13.320 --> 00:12:15.649 dose of suggests that you know opioid  
NOTE Confidence: 0.891966842941176  
00:12:15.649 --> 00:12:16.744 induced respiratory depression,  
NOTE Confidence: 0.891966842941176  
00:12:16.750 --> 00:12:17.998 while contributory was probably  
NOTE Confidence: 0.891966842941176  
00:12:17.998 --> 00:12:19.246 not the whole picture,  
NOTE Confidence: 0.891966842941176  
00:12:19.250 --> 00:12:21.446 and what led to death and oxyc brain injury  
NOTE Confidence: 0.891966842941176  
00:12:21.446 --> 00:12:23.875 or other critical events in these patients.  
NOTE Confidence: 0.891966842941176  
00:12:23.880 --> 00:12:25.416 So lessons can also be learned from the  
NOTE Confidence: 0.891966842941176  
00:12:25.416 --> 00:12:26.990 Society of anesthesia and Sleep Medicine,  
NOTE Confidence: 0.891966842941176

00:12:26.990 --> 00:12:29.450 death and near Miss Miss Registry.  
NOTE Confidence: 0.891966842941176

00:12:29.450 --> 00:12:31.840 This registry study included 60.  
NOTE Confidence: 0.891966842941176

00:12:31.840 --> 00:12:33.996 Six patients who died had an accident,  
NOTE Confidence: 0.891966842941176

00:12:34.000 --> 00:12:35.968 brain injury or a handful that  
NOTE Confidence: 0.891966842941176

00:12:35.968 --> 00:12:37.280 had other critical events.  
NOTE Confidence: 0.891966842941176

00:12:37.280 --> 00:12:37.968 And again,  
NOTE Confidence: 0.891966842941176

00:12:37.968 --> 00:12:40.376 most of the events were on the  
NOTE Confidence: 0.891966842941176

00:12:40.376 --> 00:12:42.650 hospital floor as opposed to  
NOTE Confidence: 0.891966842941176

00:12:42.650 --> 00:12:44.039 higher monitored locations,  
NOTE Confidence: 0.891966842941176

00:12:44.040 --> 00:12:45.348 although some did occur in the  
NOTE Confidence: 0.891966842941176

00:12:45.348 --> 00:12:46.220 ICU or step down,  
NOTE Confidence: 0.891966842941176

00:12:46.220 --> 00:12:48.280 so that's important to note.  
NOTE Confidence: 0.891966842941176

00:12:48.280 --> 00:12:48.757 And for me,  
NOTE Confidence: 0.891966842941176

00:12:48.757 --> 00:12:49.870 as someone who does a lot of  
NOTE Confidence: 0.891966842941176

00:12:49.914 --> 00:12:50.950 ambulatory anesthesiology,  
NOTE Confidence: 0.891966842941176

00:12:50.950 --> 00:12:52.930 I'm of course you know concerned

NOTE Confidence: 0.891966842941176  
00:12:52.930 --> 00:12:54.852 about the 14 patients who died  
NOTE Confidence: 0.891966842941176  
00:12:54.852 --> 00:12:56.735 or had a noxic brain injury at  
NOTE Confidence: 0.891966842941176  
00:12:56.735 --> 00:12:58.780 home after ambulatory anesthesia.  
NOTE Confidence: 0.891966842941176  
00:12:58.780 --> 00:12:59.936 So that's particularly concerning.  
NOTE Confidence: 0.891966842941176  
00:12:59.936 --> 00:13:01.993 And when you look at the patients  
NOTE Confidence: 0.891966842941176  
00:13:01.993 --> 00:13:03.876 who had death or brain damage versus  
NOTE Confidence: 0.891966842941176  
00:13:03.876 --> 00:13:05.568 those who had other critical events  
NOTE Confidence: 0.891966842941176  
00:13:05.568 --> 00:13:07.525 but were rescued for that from them.  
NOTE Confidence: 0.891966842941176  
00:13:07.525 --> 00:13:09.660 Death and brain damage were less common  
NOTE Confidence: 0.891966842941176  
00:13:09.660 --> 00:13:11.919 when the event was witnessed less  
NOTE Confidence: 0.891966842941176  
00:13:11.919 --> 00:13:14.295 common when supplemental oxygen was utilized.  
NOTE Confidence: 0.891966842941176  
00:13:14.300 --> 00:13:15.900 Less common when respiratory  
NOTE Confidence: 0.891966842941176  
00:13:15.900 --> 00:13:17.100 monitoring was utilized.  
NOTE Confidence: 0.891966842941176  
00:13:17.100 --> 00:13:19.602 More common when opioids and sedatives  
NOTE Confidence: 0.891966842941176  
00:13:19.602 --> 00:13:23.290 were given compared to just opioids alone.  
NOTE Confidence: 0.891966842941176

00:13:23.290 --> 00:13:25.666 And in this small registry study,  
NOTE Confidence: 0.891966842941176

00:13:25.670 --> 00:13:27.973 there was no evidence for an association  
NOTE Confidence: 0.891966842941176

00:13:27.973 --> 00:13:30.499 with OSA severity or cumulative opioid dose,  
NOTE Confidence: 0.891966842941176

00:13:30.500 --> 00:13:32.082 and the risk of death or bearing  
NOTE Confidence: 0.891966842941176

00:13:32.082 --> 00:13:33.180 damage being the outcome,  
NOTE Confidence: 0.891966842941176

00:13:33.180 --> 00:13:35.208 with the caveat that it's obviously  
NOTE Confidence: 0.891966842941176

00:13:35.208 --> 00:13:36.930 a very small sample size,  
NOTE Confidence: 0.891966842941176

00:13:36.930 --> 00:13:37.980 so I don't know what conclusions  
NOTE Confidence: 0.891966842941176

00:13:37.980 --> 00:13:39.060 we can really draw from that.  
NOTE Confidence: 0.91016224

00:13:42.130 --> 00:13:44.410 So now that I've touched upon the risks  
NOTE Confidence: 0.91016224

00:13:44.410 --> 00:13:46.518 of adverse events in terms of cardio,  
NOTE Confidence: 0.91016224

00:13:46.520 --> 00:13:47.350 pulmonary complications,  
NOTE Confidence: 0.91016224

00:13:47.350 --> 00:13:49.764 and the rare but really feared  
NOTE Confidence: 0.91016224

00:13:49.764 --> 00:13:52.026 risk of death or not sticker,  
NOTE Confidence: 0.91016224

00:13:52.030 --> 00:13:54.358 brain and brain damage and our  
NOTE Confidence: 0.91016224

00:13:54.358 --> 00:13:56.145 patients with OSA perioperatively,

NOTE Confidence: 0.91016224

00:13:56.145 --> 00:13:59.835 how can we approach preoperative risk

NOTE Confidence: 0.91016224

00:13:59.835 --> 00:14:03.757 assessment and then planning to reduce risk?

NOTE Confidence: 0.91016224

00:14:03.760 --> 00:14:05.356 We have robust guidelines from the

NOTE Confidence: 0.91016224

00:14:05.356 --> 00:14:07.139 Society of Anesthesia and Sleep Medicine.

NOTE Confidence: 0.91016224

00:14:07.140 --> 00:14:08.796 As I mentioned at the outset.

NOTE Confidence: 0.91016224

00:14:08.800 --> 00:14:11.512 And of course the gold standard

NOTE Confidence: 0.91016224

00:14:11.512 --> 00:14:13.320 for diagnosis is polysomnography.

NOTE Confidence: 0.91016224

00:14:13.320 --> 00:14:15.420 But a lot of our patients present

NOTE Confidence: 0.91016224

00:14:15.420 --> 00:14:18.596 to us for surgery and have not had

NOTE Confidence: 0.91016224

00:14:18.596 --> 00:14:20.796 polysomnography to diagnose their OSA.

NOTE Confidence: 0.91016224

00:14:20.800 --> 00:14:21.860 And of course, many,

NOTE Confidence: 0.91016224

00:14:21.860 --> 00:14:24.110 many patients present to us with undiagnosed.

NOTE Confidence: 0.91016224

00:14:24.110 --> 00:14:27.687 So, in the absence of formal testing,

NOTE Confidence: 0.91016224

00:14:27.690 --> 00:14:29.140 we're left with screening questionnaires.

NOTE Confidence: 0.91016224

00:14:29.140 --> 00:14:31.528 My name, which have been validated

NOTE Confidence: 0.91016224

00:14:31.528 --> 00:14:33.490 and the most popular one.  
NOTE Confidence: 0.91016224

00:14:33.490 --> 00:14:35.566 Is certainly the Stop Bang score  
NOTE Confidence: 0.91016224

00:14:35.570 --> 00:14:37.122 and there's currently insufficient  
NOTE Confidence: 0.91016224

00:14:37.122 --> 00:14:39.062 evidence to suggest that for  
NOTE Confidence: 0.91016224

00:14:39.062 --> 00:14:41.017 the vast majority of patients,  
NOTE Confidence: 0.91016224

00:14:41.020 --> 00:14:42.868 presenting for the vast majority of  
NOTE Confidence: 0.91016224

00:14:42.868 --> 00:14:45.592 types of surgery that you know delaying  
NOTE Confidence: 0.91016224

00:14:45.592 --> 00:14:48.909 surgery that isn't urgent in order to  
NOTE Confidence: 0.91016224

00:14:48.909 --> 00:14:51.901 get formal testing with polysomnography is,  
NOTE Confidence: 0.91016224

00:14:51.901 --> 00:14:53.829 you know is not the best way to  
NOTE Confidence: 0.91016224

00:14:53.829 --> 00:14:55.597 utilize resources for for our  
NOTE Confidence: 0.91016224

00:14:55.597 --> 00:14:57.432 perioperative patients at this point,  
NOTE Confidence: 0.91016224

00:14:57.440 --> 00:15:00.715 which leaves us with these  
NOTE Confidence: 0.91016224

00:15:00.715 --> 00:15:02.025 screening questionnaires.  
NOTE Confidence: 0.91016224

00:15:02.030 --> 00:15:03.730 So on a daily basis,  
NOTE Confidence: 0.91016224

00:15:03.730 --> 00:15:05.685 we are then confronted with

NOTE Confidence: 0.91016224

00:15:05.685 --> 00:15:07.249 diagnosed patients with OSA,

NOTE Confidence: 0.91016224

00:15:07.250 --> 00:15:09.474 who are treated which is our favorite type.

NOTE Confidence: 0.91016224

00:15:09.480 --> 00:15:11.290 Those with OSA that's diagnosed

NOTE Confidence: 0.91016224

00:15:11.290 --> 00:15:13.100 but are either partially treated

NOTE Confidence: 0.91016224

00:15:13.163 --> 00:15:15.335 or untreated or maybe not adherent

NOTE Confidence: 0.91016224

00:15:15.335 --> 00:15:17.215 to their prescribed treatment and

NOTE Confidence: 0.91016224

00:15:17.215 --> 00:15:19.423 then those with suspected OSA based

NOTE Confidence: 0.91016224

00:15:19.423 --> 00:15:21.042 on preoperative screening tools

NOTE Confidence: 0.91016224

00:15:21.042 --> 00:15:22.578 such as stopping.

NOTE Confidence: 0.888116942222222

00:15:24.920 --> 00:15:27.368 And here at Yale in our

NOTE Confidence: 0.888116942222222

00:15:27.368 --> 00:15:28.592 preanesthesia evaluation note,

NOTE Confidence: 0.888116942222222

00:15:28.600 --> 00:15:30.555 which is standard throughout the

NOTE Confidence: 0.888116942222222

00:15:30.555 --> 00:15:32.351 health system, we do document

NOTE Confidence: 0.888116942222222

00:15:32.351 --> 00:15:34.373 unknown diagnosis of OSA and then

NOTE Confidence: 0.888116942222222

00:15:34.373 --> 00:15:36.398 whether or not the patient is on C.

NOTE Confidence: 0.888116942222222

00:15:36.400 --> 00:15:38.367 Pap and then in the absence of  
NOTE Confidence: 0.888116942222222

00:15:38.367 --> 00:15:41.061 that we can document using a pre op  
NOTE Confidence: 0.888116942222222

00:15:41.061 --> 00:15:43.380 screening tool section of our pre op.  
NOTE Confidence: 0.888116942222222

00:15:43.380 --> 00:15:44.540 Note whether we used,  
NOTE Confidence: 0.888116942222222

00:15:44.540 --> 00:15:47.507 we did a stop bang score and then if the  
NOTE Confidence: 0.888116942222222

00:15:47.507 --> 00:15:49.820 patient has three or more risk factors,  
NOTE Confidence: 0.888116942222222

00:15:49.820 --> 00:15:51.927 whether they are at risk for OSA.  
NOTE Confidence: 0.974904794

00:15:54.620 --> 00:15:55.920 So that begs the question,  
NOTE Confidence: 0.974904794

00:15:55.920 --> 00:15:58.290 if we're frequently taking care of  
NOTE Confidence: 0.974904794

00:15:58.290 --> 00:16:00.340 patients who screen positive for  
NOTE Confidence: 0.974904794

00:16:00.340 --> 00:16:02.330 OSA and aren't formally diagnosed,  
NOTE Confidence: 0.974904794

00:16:02.330 --> 00:16:04.328 and therefore of course don't have  
NOTE Confidence: 0.974904794

00:16:04.328 --> 00:16:05.660 any treatment, they're not going  
NOTE Confidence: 0.974904794

00:16:05.660 --> 00:16:06.980 to be in positive area pressure.  
NOTE Confidence: 0.974904794

00:16:06.980 --> 00:16:10.500 And what is the impact of positive air  
NOTE Confidence: 0.974904794

00:16:10.500 --> 00:16:14.198 pressure on adverse outcomes after surgery?



NOTE Confidence: 0.974904794

00:16:14.200 --> 00:16:15.488 Well, there's a bit of literature on it.

NOTE Confidence: 0.974904794

00:16:15.490 --> 00:16:17.422 It's hard to study and really

NOTE Confidence: 0.974904794

00:16:17.422 --> 00:16:19.519 tease out what the benefit is,

NOTE Confidence: 0.974904794

00:16:19.520 --> 00:16:23.072 but here there is a meta

NOTE Confidence: 0.974904794

00:16:23.072 --> 00:16:24.860 analysis of six studies.

NOTE Confidence: 0.974904794

00:16:24.860 --> 00:16:26.960 Two of them are randomized controlled trials.

NOTE Confidence: 0.974904794

00:16:26.960 --> 00:16:28.720 The remaining were observation,

NOTE Confidence: 0.974904794

00:16:28.720 --> 00:16:31.724 ULL that included almost 1000 patients and

NOTE Confidence: 0.974904794

00:16:31.724 --> 00:16:34.636 in terms of the impact on adverse outcomes,

NOTE Confidence: 0.974904794

00:16:34.640 --> 00:16:37.448 I'll give go over that in just a moment.

NOTE Confidence: 0.974904794

00:16:37.450 --> 00:16:39.826 But I first wanted to point out that

NOTE Confidence: 0.974904794

00:16:39.826 --> 00:16:42.447 of the patients who were in the see

NOTE Confidence: 0.974904794

00:16:42.447 --> 00:16:44.859 PAP group in these pooled studies,

NOTE Confidence: 0.974904794

00:16:44.860 --> 00:16:46.135 the vast majority of them

NOTE Confidence: 0.974904794

00:16:46.135 --> 00:16:47.155 around preoperative C PAP.

NOTE Confidence: 0.974904794

00:16:47.160 --> 00:16:47.439 However,  
NOTE Confidence: 0.974904794

00:16:47.439 --> 00:16:48.834 fewer than half actually used  
NOTE Confidence: 0.974904794

00:16:48.834 --> 00:16:50.658 their C PAP in the postoperative  
NOTE Confidence: 0.974904794

00:16:50.658 --> 00:16:52.278 period and that could be,  
NOTE Confidence: 0.974904794

00:16:52.280 --> 00:16:54.200 for various reasons,  
NOTE Confidence: 0.974904794

00:16:54.200 --> 00:16:55.480 noncompliance clinicians.  
NOTE Confidence: 0.974904794

00:16:55.480 --> 00:16:57.508 Didn't prescribe it and no protocols  
NOTE Confidence: 0.974904794

00:16:57.508 --> 00:16:59.748 in the hospitals that they were at  
NOTE Confidence: 0.974904794

00:16:59.748 --> 00:17:01.666 in order to make sure the patients  
NOTE Confidence: 0.974904794

00:17:01.729 --> 00:17:03.537 got their CPAP postoperatively.  
NOTE Confidence: 0.974904794

00:17:03.540 --> 00:17:06.795 So with that caveat that the postoperative  
NOTE Confidence: 0.974904794

00:17:06.795 --> 00:17:09.030 adherence was only about 50%.  
NOTE Confidence: 0.974904794

00:17:09.030 --> 00:17:11.413 This meta analysis found that there was  
NOTE Confidence: 0.974904794

00:17:11.413 --> 00:17:13.318 no significant difference in adverse  
NOTE Confidence: 0.974904794

00:17:13.318 --> 00:17:14.699 events postoperatively in patients  
NOTE Confidence: 0.974904794

00:17:14.700 --> 00:17:16.608 who were on positive air pressure

NOTE Confidence: 0.974904794

00:17:16.608 --> 00:17:18.419 therapy versus those that were not.

NOTE Confidence: 0.931978999166667

00:17:21.740 --> 00:17:23.858 Another kind of creative study designed

NOTE Confidence: 0.931978999166667

00:17:23.858 --> 00:17:26.745 to try to answer this question comes

NOTE Confidence: 0.931978999166667

00:17:26.745 --> 00:17:30.542 from this match cohort study where where

NOTE Confidence: 0.931978999166667

00:17:30.542 --> 00:17:32.516 patients were divided up into three groups,

NOTE Confidence: 0.931978999166667

00:17:32.520 --> 00:17:34.790 those that had diagnosed OSA

NOTE Confidence: 0.931978999166667

00:17:34.790 --> 00:17:37.060 prior to presenting to surgery.

NOTE Confidence: 0.931978999166667

00:17:37.060 --> 00:17:42.226 Those that had OSA diagnosed and.

NOTE Confidence: 0.931978999166667

00:17:42.230 --> 00:17:43.778 After their surgery within

NOTE Confidence: 0.931978999166667

00:17:43.778 --> 00:17:45.326 the next five years,

NOTE Confidence: 0.931978999166667

00:17:45.330 --> 00:17:47.424 with the presumption that they probably

NOTE Confidence: 0.931978999166667

00:17:47.424 --> 00:17:50.307 had OSA at the time of their surgery,

NOTE Confidence: 0.931978999166667

00:17:50.310 --> 00:17:52.557 it just wasn't diagnosed yet and so

NOTE Confidence: 0.931978999166667

00:17:52.557 --> 00:17:54.748 therefore they weren't on any treatment yet.

NOTE Confidence: 0.931978999166667

00:17:54.750 --> 00:17:56.850 And then those matched controls that

NOTE Confidence: 0.931978999166667

00:17:56.850 --> 00:17:59.810 did not have an elevated risk for OSA.  
NOTE Confidence: 0.931978999166667

00:17:59.810 --> 00:18:02.342 And when you pulled together the  
NOTE Confidence: 0.931978999166667

00:18:02.342 --> 00:18:04.949 patients with diagnosed and treated OSA,  
NOTE Confidence: 0.931978999166667

00:18:04.950 --> 00:18:06.924 undiagnosed OSA at the time of surgery  
NOTE Confidence: 0.931978999166667

00:18:06.924 --> 00:18:08.930 and compared them to the match controls,  
NOTE Confidence: 0.931978999166667

00:18:08.930 --> 00:18:11.030 OSA, whether diagnosed or undiagnosed,  
NOTE Confidence: 0.931978999166667

00:18:11.030 --> 00:18:13.274 did lead to an increased risk  
NOTE Confidence: 0.931978999166667

00:18:13.274 --> 00:18:14.396 of respiratory complications.  
NOTE Confidence: 0.931978999166667

00:18:14.400 --> 00:18:16.880 For all patients with OSA.  
NOTE Confidence: 0.931978999166667

00:18:16.880 --> 00:18:17.444 Interestingly,  
NOTE Confidence: 0.931978999166667

00:18:17.444 --> 00:18:19.700 the cardiac comma cardiovascular  
NOTE Confidence: 0.931978999166667

00:18:19.700 --> 00:18:21.392 complications including cardiac  
NOTE Confidence: 0.931978999166667

00:18:21.392 --> 00:18:22.960 arrest and shock.  
NOTE Confidence: 0.931978999166667

00:18:22.960 --> 00:18:25.516 The patients who had undiagnosed OSA,  
NOTE Confidence: 0.931978999166667

00:18:25.520 --> 00:18:27.284 meaning that they ended up getting diagnosed  
NOTE Confidence: 0.931978999166667

00:18:27.284 --> 00:18:29.260 in the five years after their surgery,

NOTE Confidence: 0.931978999166667  
00:18:29.260 --> 00:18:32.314 had nearly had over twice increased  
NOTE Confidence: 0.931978999166667  
00:18:32.314 --> 00:18:35.060 risk of having cardiac arrests  
NOTE Confidence: 0.931978999166667  
00:18:35.060 --> 00:18:37.520 and or shock in the postoperative  
NOTE Confidence: 0.931978999166667  
00:18:37.520 --> 00:18:40.016 period compared to those that were  
NOTE Confidence: 0.931978999166667  
00:18:40.016 --> 00:18:41.961 diagnosed with OSA and prescribed  
NOTE Confidence: 0.931978999166667  
00:18:41.961 --> 00:18:44.620 CPAP in the preoperative period,  
NOTE Confidence: 0.931978999166667  
00:18:44.620 --> 00:18:46.645 suggesting that it may be  
NOTE Confidence: 0.931978999166667  
00:18:46.645 --> 00:18:47.455 cardiovascular complications.  
NOTE Confidence: 0.931978999166667  
00:18:47.460 --> 00:18:50.850 That CPAP use and adherence could  
NOTE Confidence: 0.931978999166667  
00:18:50.850 --> 00:18:53.110 be particularly beneficial for.  
NOTE Confidence: 0.931978999166667  
00:18:53.110 --> 00:18:54.699 And then one final study that I  
NOTE Confidence: 0.931978999166667  
00:18:54.699 --> 00:18:56.459 wanted to share trying to delve into  
NOTE Confidence: 0.931978999166667  
00:18:56.459 --> 00:18:57.995 this question of whether kpap is  
NOTE Confidence: 0.931978999166667  
00:18:58.051 --> 00:18:59.766 protective in the perioperative period  
NOTE Confidence: 0.931978999166667  
00:18:59.766 --> 00:19:01.481 comes from the Michigan Surgical  
NOTE Confidence: 0.931978999166667

00:19:01.490 --> 00:19:05.408 Quality Collaborative 2646 patients  
NOTE Confidence: 0.931978999166667

00:19:05.408 --> 00:19:07.853 were extracted from this database  
NOTE Confidence: 0.931978999166667

00:19:07.853 --> 00:19:10.507 that had diagnosed or suspected OSA  
NOTE Confidence: 0.931978999166667

00:19:10.507 --> 00:19:12.818 based on clinician documentation  
NOTE Confidence: 0.931978999166667

00:19:12.818 --> 00:19:16.822 of preoperative screening and of  
NOTE Confidence: 0.931978999166667

00:19:16.822 --> 00:19:18.703 those 26155.4% were untreated.  
NOTE Confidence: 0.931978999166667

00:19:18.703 --> 00:19:20.809 So either because they just screen  
NOTE Confidence: 0.931978999166667

00:19:20.809 --> 00:19:22.421 positive or they had diagnosed  
NOTE Confidence: 0.931978999166667

00:19:22.421 --> 00:19:23.327 but were untreated.  
NOTE Confidence: 0.931978999166667

00:19:23.330 --> 00:19:25.255 And when you compare the two groups,  
NOTE Confidence: 0.931978999166667

00:19:25.260 --> 00:19:26.995 the untreated patients with OSA  
NOTE Confidence: 0.931978999166667

00:19:26.995 --> 00:19:29.202 or suspected OSA had an increased  
NOTE Confidence: 0.931978999166667

00:19:29.202 --> 00:19:30.818 risk of pooled cardio,  
NOTE Confidence: 0.931978999166667

00:19:30.820 --> 00:19:32.156 pulmonary complications,  
NOTE Confidence: 0.931978999166667

00:19:32.156 --> 00:19:33.492 unplanned reintubation's,  
NOTE Confidence: 0.931978999166667

00:19:33.492 --> 00:19:35.496 and postoperative MI's.

NOTE Confidence: 0.915130083157895  
00:19:39.720 --> 00:19:42.331 So, given that we don't yet have  
NOTE Confidence: 0.915130083157895  
00:19:42.331 --> 00:19:45.086 enough evidence to refer to all of  
NOTE Confidence: 0.915130083157895  
00:19:45.086 --> 00:19:47.036 our patients for Sleep Medicine,  
NOTE Confidence: 0.915130083157895  
00:19:47.040 --> 00:19:48.165 consultation and treatment,  
NOTE Confidence: 0.915130083157895  
00:19:48.165 --> 00:19:50.790 and we are going to be taking  
NOTE Confidence: 0.915130083157895  
00:19:50.862 --> 00:19:53.076 care of patients you know with  
NOTE Confidence: 0.915130083157895  
00:19:53.076 --> 00:19:55.079 just a presumed diagnosis of OSA,  
NOTE Confidence: 0.915130083157895  
00:19:55.080 --> 00:19:57.066 which patient should we not go  
NOTE Confidence: 0.915130083157895  
00:19:57.066 --> 00:19:59.083 ahead with that plan and actually  
NOTE Confidence: 0.915130083157895  
00:19:59.083 --> 00:20:01.253 pause in the case of you know,  
NOTE Confidence: 0.915130083157895  
00:20:01.260 --> 00:20:03.576 non urgent surgery and send our  
NOTE Confidence: 0.915130083157895  
00:20:03.576 --> 00:20:05.120 patients for Sleep Medicine,  
NOTE Confidence: 0.915130083157895  
00:20:05.120 --> 00:20:06.932 consultation and possible  
NOTE Confidence: 0.915130083157895  
00:20:06.932 --> 00:20:08.140 treatment preoperatively?  
NOTE Confidence: 0.915130083157895  
00:20:08.140 --> 00:20:08.848 Well, pretty much.  
NOTE Confidence: 0.915130083157895

00:20:08.848 --> 00:20:10.924 All of the guidelines I share at the  
NOTE Confidence: 0.915130083157895

00:20:10.924 --> 00:20:12.408 outset have similar recommendations,  
NOTE Confidence: 0.915130083157895

00:20:12.410 --> 00:20:14.145 which is those patients with  
NOTE Confidence: 0.915130083157895

00:20:14.145 --> 00:20:14.839 particular comorbidities,  
NOTE Confidence: 0.915130083157895

00:20:14.840 --> 00:20:16.958 including hypoventilation syndromes,  
NOTE Confidence: 0.915130083157895

00:20:16.958 --> 00:20:18.370 pulmonary hypertension,  
NOTE Confidence: 0.915130083157895

00:20:18.370 --> 00:20:21.370 and resting hypoxemia diagnosed  
NOTE Confidence: 0.915130083157895

00:20:21.370 --> 00:20:23.554 preoperatively most certainly will  
NOTE Confidence: 0.915130083157895

00:20:23.554 --> 00:20:25.466 benefit from preoperative Sleep  
NOTE Confidence: 0.915130083157895

00:20:25.466 --> 00:20:27.404 Medicine consultation and possibly  
NOTE Confidence: 0.915130083157895

00:20:27.404 --> 00:20:29.144 initiating positive air pressure  
NOTE Confidence: 0.915130083157895

00:20:29.144 --> 00:20:32.190 therapy prior to going ahead with surgery,  
NOTE Confidence: 0.915130083157895

00:20:32.190 --> 00:20:35.214 and so that's that's a pretty consistent  
NOTE Confidence: 0.915130083157895

00:20:35.214 --> 00:20:36.510 recommendation across guidelines.  
NOTE Confidence: 0.906437991851852

00:20:38.990 --> 00:20:40.695 Another clinical decision that we're  
NOTE Confidence: 0.906437991851852

00:20:40.695 --> 00:20:43.136 faced with when we do ambulatory surgery



NOTE Confidence: 0.906437991851852  
00:20:43.136 --> 00:20:45.481 on a daily basis is which patients  
NOTE Confidence: 0.906437991851852  
00:20:45.481 --> 00:20:47.647 are safe to send home and this is,  
NOTE Confidence: 0.906437991851852  
00:20:47.650 --> 00:20:50.009 you know, the the low clinical location.  
NOTE Confidence: 0.906437991851852  
00:20:50.010 --> 00:20:51.816 I work in most commonly the  
NOTE Confidence: 0.906437991851852  
00:20:51.816 --> 00:20:53.758 East pavilion here at the York  
NOTE Confidence: 0.906437991851852  
00:20:53.758 --> 00:20:55.428 Street Street campus of Yale,  
NOTE Confidence: 0.906437991851852  
00:20:55.430 --> 00:20:56.165 New Haven Hospital.  
NOTE Confidence: 0.906437991851852  
00:20:56.165 --> 00:20:57.880 There really isn't a day that goes  
NOTE Confidence: 0.906437991851852  
00:20:57.926 --> 00:20:59.669 by where I don't have a patient  
NOTE Confidence: 0.906437991851852  
00:20:59.669 --> 00:21:00.830 scheduled for inventory surgery.  
NOTE Confidence: 0.906437991851852  
00:21:00.830 --> 00:21:02.302 Who has a diagnosis of OSA and I  
NOTE Confidence: 0.906437991851852  
00:21:02.302 --> 00:21:04.187 have to decide whether or not it's safe.  
NOTE Confidence: 0.906437991851852  
00:21:04.190 --> 00:21:05.326 So as I mentioned,  
NOTE Confidence: 0.906437991851852  
00:21:05.326 --> 00:21:07.534 the 2012 Samba Guidelines Society  
NOTE Confidence: 0.906437991851852  
00:21:07.534 --> 00:21:08.977 of Ambulatory Anesthesia.  
NOTE Confidence: 0.906437991851852

00:21:08.980 --> 00:21:10.984 Really do still guide our decision  
NOTE Confidence: 0.906437991851852

00:21:10.984 --> 00:21:12.990 making and despite the age of  
NOTE Confidence: 0.906437991851852

00:21:12.990 --> 00:21:14.500 the guidelines at this point,  
NOTE Confidence: 0.906437991851852

00:21:14.500 --> 00:21:16.048 and like other guidelines,  
NOTE Confidence: 0.906437991851852

00:21:16.048 --> 00:21:18.370 it divides patients into known OSA  
NOTE Confidence: 0.906437991851852

00:21:18.437 --> 00:21:20.417 versus presumed OSA and those with  
NOTE Confidence: 0.906437991851852

00:21:20.417 --> 00:21:22.942 known OSA who are compliant with C PAP  
NOTE Confidence: 0.906437991851852

00:21:22.942 --> 00:21:25.158 at home have their C PAP machine at  
NOTE Confidence: 0.906437991851852

00:21:25.158 --> 00:21:27.498 home and are going to be able to use  
NOTE Confidence: 0.906437991851852

00:21:27.498 --> 00:21:29.479 it and here to it post operatively.  
NOTE Confidence: 0.906437991851852

00:21:29.480 --> 00:21:32.644 It's safe to proceed with ambulatory surgery.  
NOTE Confidence: 0.906437991851852

00:21:32.650 --> 00:21:35.723 Patients who either don't use CPAP or  
NOTE Confidence: 0.906437991851852

00:21:35.723 --> 00:21:38.026 haven't been prescribed but but are  
NOTE Confidence: 0.906437991851852

00:21:38.026 --> 00:21:40.810 going to be able to have their pain  
NOTE Confidence: 0.906437991851852

00:21:40.810 --> 00:21:43.618 mostly controlled by non opioid techniques,  
NOTE Confidence: 0.906437991851852

00:21:43.620 --> 00:21:45.280 probably also safe to proceed

NOTE Confidence: 0.906437991851852  
00:21:45.280 --> 00:21:46.276 with ambulatory surgery,  
NOTE Confidence: 0.906437991851852  
00:21:46.280 --> 00:21:48.128 but it's those patients without paper,  
NOTE Confidence: 0.906437991851852  
00:21:48.130 --> 00:21:49.570 certainly with non optimized  
NOTE Confidence: 0.906437991851852  
00:21:49.570 --> 00:21:50.290 comorbid conditions,  
NOTE Confidence: 0.906437991851852  
00:21:50.290 --> 00:21:51.742 and in particular if they're going  
NOTE Confidence: 0.906437991851852  
00:21:51.742 --> 00:21:53.074 to be using opioids postoperatively  
NOTE Confidence: 0.906437991851852  
00:21:53.074 --> 00:21:54.982 that are not suitable for ambulatory  
NOTE Confidence: 0.906437991851852  
00:21:54.982 --> 00:21:56.627 surgery and should be done in a  
NOTE Confidence: 0.906437991851852  
00:21:56.627 --> 00:21:58.113 place where inpatient admission  
NOTE Confidence: 0.906437991851852  
00:21:58.113 --> 00:21:59.877 afterwards is is possible.  
NOTE Confidence: 0.846571955  
00:22:04.480 --> 00:22:07.016 So both the Samba guidelines and also the  
NOTE Confidence: 0.846571955  
00:22:07.016 --> 00:22:09.523 saw some guidelines recommend that CPAP  
NOTE Confidence: 0.846571955  
00:22:09.523 --> 00:22:12.229 should be available in the perioperative  
NOTE Confidence: 0.846571955  
00:22:12.292 --> 00:22:14.956 period and for ambulatory surgery centers,  
NOTE Confidence: 0.846571955  
00:22:14.960 --> 00:22:17.151 which unlike a hospital setting like here  
NOTE Confidence: 0.846571955

00:22:17.151 --> 00:22:19.406 at Yale, are not going to have respiratory  
NOTE Confidence: 0.846571955

00:22:19.406 --> 00:22:20.980 therapists and CPAP machines available.  
NOTE Confidence: 0.846571955

00:22:20.980 --> 00:22:22.700 The recommendation is for patients  
NOTE Confidence: 0.846571955

00:22:22.700 --> 00:22:25.045 to bring their own CPAP machines on  
NOTE Confidence: 0.846571955

00:22:25.045 --> 00:22:27.277 the day of surgery so that they can  
NOTE Confidence: 0.846571955

00:22:27.340 --> 00:22:29.416 use it in the postoperative period.  
NOTE Confidence: 0.846571955

00:22:29.420 --> 00:22:32.647 A recent survey of ambulatory Surgery center  
NOTE Confidence: 0.846571955

00:22:32.647 --> 00:22:34.978 medical directors found that only 60.  
NOTE Confidence: 0.846571955

00:22:34.980 --> 00:22:36.982 Present facilities did have a policy that  
NOTE Confidence: 0.846571955

00:22:36.982 --> 00:22:38.744 required their patients to bring their CPAP  
NOTE Confidence: 0.846571955

00:22:38.744 --> 00:22:40.958 devices in the day of surgery and only a  
NOTE Confidence: 0.846571955

00:22:40.958 --> 00:22:42.794 quarter of facility facility is reported.  
NOTE Confidence: 0.846571955

00:22:42.800 --> 00:22:44.612 Patients actually using their C PAP  
NOTE Confidence: 0.846571955

00:22:44.612 --> 00:22:46.559 machines at some point in their AFC.  
NOTE Confidence: 0.846571955

00:22:46.560 --> 00:22:48.820 Within the past two years.  
NOTE Confidence: 0.846571955

00:22:48.820 --> 00:22:51.909 So in all, this means that 40% of ASD

NOTE Confidence: 0.846571955

00:22:51.909 --> 00:22:54.030 in the United States are likely not

NOTE Confidence: 0.846571955

00:22:54.102 --> 00:22:56.556 compliant with Samba and saw some

NOTE Confidence: 0.846571955

00:22:56.556 --> 00:22:58.920 recommendations to have CPAP available.

NOTE Confidence: 0.846571955

00:22:58.920 --> 00:22:59.500 Despite that,

NOTE Confidence: 0.846571955

00:22:59.500 --> 00:23:01.240 none of the medical directors did

NOTE Confidence: 0.846571955

00:23:01.240 --> 00:23:03.178 report any adverse outcomes or adverse

NOTE Confidence: 0.846571955

00:23:03.178 --> 00:23:04.813 events that to their knowledge,

NOTE Confidence: 0.846571955

00:23:04.820 --> 00:23:06.500 in patients with OSA at their ASC.

NOTE Confidence: 0.846571955

00:23:06.500 --> 00:23:07.912 Which may reflect pay,

NOTE Confidence: 0.846571955

00:23:07.912 --> 00:23:09.677 careful patient selection as opposed

NOTE Confidence: 0.846571955

00:23:09.677 --> 00:23:11.853 to the fact that you know the idea

NOTE Confidence: 0.846571955

00:23:11.853 --> 00:23:13.799 that our OSA patients don't need

NOTE Confidence: 0.846571955

00:23:13.799 --> 00:23:15.689 CPAP in the perioperative period.

NOTE Confidence: 0.924928207222222

00:23:19.040 --> 00:23:21.375 As promised, I'm going to

NOTE Confidence: 0.924928207222222

00:23:21.375 --> 00:23:23.243 briefly highlight some specific

NOTE Confidence: 0.924928207222222

00:23:23.243 --> 00:23:25.434 recommendations from the upper airway  
NOTE Confidence: 0.924928207222222

00:23:25.434 --> 00:23:27.094 surgery guidelines and namely,  
NOTE Confidence: 0.924928207222222

00:23:27.100 --> 00:23:28.258 I wanted to point out here.  
NOTE Confidence: 0.924928207222222

00:23:28.260 --> 00:23:29.940 These are more statements than  
NOTE Confidence: 0.924928207222222

00:23:29.940 --> 00:23:32.236 recommendations, but when you look at every  
NOTE Confidence: 0.924928207222222

00:23:32.236 --> 00:23:34.720 type of upper airway surgery that is,  
NOTE Confidence: 0.924928207222222

00:23:34.720 --> 00:23:37.180 you know common in current practice,  
NOTE Confidence: 0.924928207222222

00:23:37.180 --> 00:23:38.520 bleeding is, you know,  
NOTE Confidence: 0.924928207222222

00:23:38.520 --> 00:23:40.530 the main risk factor for complications  
NOTE Confidence: 0.924928207222222

00:23:40.593 --> 00:23:42.297 post-op really for all of them.  
NOTE Confidence: 0.924928207222222

00:23:42.300 --> 00:23:43.720 And as you can imagine,  
NOTE Confidence: 0.924928207222222

00:23:43.720 --> 00:23:45.516 bleeding Airways in patients  
NOTE Confidence: 0.924928207222222

00:23:45.516 --> 00:23:47.761 with OSA is definitely something  
NOTE Confidence: 0.924928207222222

00:23:47.761 --> 00:23:50.792 that presents a challenge from a  
NOTE Confidence: 0.924928207222222

00:23:50.792 --> 00:23:52.298 clinical management standpoint.  
NOTE Confidence: 0.924928207222222

00:23:52.300 --> 00:23:54.183 And then when it comes to a

NOTE Confidence: 0.924928207222222

00:23:54.183 --> 00:23:55.660 couple of recommendations for the

NOTE Confidence: 0.924928207222222

00:23:55.660 --> 00:23:57.185 preoperative phase of care for

NOTE Confidence: 0.924928207222222

00:23:57.185 --> 00:23:58.920 patients having upper airway surgery,

NOTE Confidence: 0.924928207222222

00:23:58.920 --> 00:24:00.160 you know there's some soft

NOTE Confidence: 0.924928207222222

00:24:00.160 --> 00:24:01.152 recommendations for if patients

NOTE Confidence: 0.924928207222222

00:24:01.152 --> 00:24:02.440 are in positive air pressure.

NOTE Confidence: 0.924928207222222

00:24:02.440 --> 00:24:03.676 It should be.

NOTE Confidence: 0.924928207222222

00:24:03.676 --> 00:24:05.890 It should be continued in the

NOTE Confidence: 0.924928207222222

00:24:05.890 --> 00:24:06.450 perioperative period.

NOTE Confidence: 0.924928207222222

00:24:06.450 --> 00:24:08.130 But of course patients are presenting

NOTE Confidence: 0.924928207222222

00:24:08.178 --> 00:24:09.238 for upper airway surgery.

NOTE Confidence: 0.924928207222222

00:24:09.240 --> 00:24:10.696 Often we're not able to tolerate or

NOTE Confidence: 0.924928207222222

00:24:10.696 --> 00:24:12.259 adhere to their positive air pressure,

NOTE Confidence: 0.924928207222222

00:24:12.260 --> 00:24:14.040 hence the plan for surgery.

NOTE Confidence: 0.924928207222222

00:24:14.040 --> 00:24:16.776 So maybe potentially not as relevant

NOTE Confidence: 0.924928207222222

00:24:16.776 --> 00:24:18.600 in this patient population.  
NOTE Confidence: 0.924928207222222

00:24:18.600 --> 00:24:21.736 So moving on to intra operative management,  
NOTE Confidence: 0.924928207222222

00:24:21.740 --> 00:24:23.980 I'm I'm gonna go through this section,  
NOTE Confidence: 0.924928207222222

00:24:23.980 --> 00:24:24.464 you know,  
NOTE Confidence: 0.924928207222222

00:24:24.464 --> 00:24:25.916 not the greatest of detail because  
NOTE Confidence: 0.924928207222222

00:24:25.916 --> 00:24:27.709 it's more relevant to an anesthesiology  
NOTE Confidence: 0.924928207222222

00:24:27.709 --> 00:24:29.593 audience than a Sleep Medicine audience.  
NOTE Confidence: 0.924928207222222

00:24:29.600 --> 00:24:31.088 But I did want to highlight  
NOTE Confidence: 0.924928207222222

00:24:31.088 --> 00:24:32.817 the literature on OSA and its  
NOTE Confidence: 0.924928207222222

00:24:32.817 --> 00:24:34.177 association with difficult airway  
NOTE Confidence: 0.924928207222222

00:24:34.177 --> 00:24:36.145 management because I know there are  
NOTE Confidence: 0.924928207222222

00:24:36.145 --> 00:24:37.819 of course a lot of pulmonologists,  
NOTE Confidence: 0.924928207222222

00:24:37.820 --> 00:24:38.254 intensivists,  
NOTE Confidence: 0.924928207222222

00:24:38.254 --> 00:24:40.858 and respiratory therapists in the audience.  
NOTE Confidence: 0.924928207222222

00:24:40.860 --> 00:24:43.835 And today there are six studies that  
NOTE Confidence: 0.924928207222222

00:24:43.835 --> 00:24:45.688 evaluate the association between



NOTE Confidence: 0.924928207222222

00:24:45.688 --> 00:24:48.188 OSA and difficult mask ventilation,

NOTE Confidence: 0.924928207222222

00:24:48.190 --> 00:24:49.710 five of which so that.

NOTE Confidence: 0.924928207222222

00:24:49.710 --> 00:24:52.190 OSA does have a significant impact on OSA,

NOTE Confidence: 0.924928207222222

00:24:52.190 --> 00:24:54.514 one which did not when it comes

NOTE Confidence: 0.924928207222222

00:24:54.514 --> 00:24:55.510 to tracheal intubation,

NOTE Confidence: 0.924928207222222

00:24:55.510 --> 00:24:57.070 12 studies have examined this,

NOTE Confidence: 0.924928207222222

00:24:57.070 --> 00:24:59.618 and seven of them found a significant

NOTE Confidence: 0.924928207222222

00:24:59.618 --> 00:25:02.198 impact of OSA, whereas 5 did not.

NOTE Confidence: 0.924928207222222

00:25:02.198 --> 00:25:03.686 The dreaded combined difficult

NOTE Confidence: 0.924928207222222

00:25:03.686 --> 00:25:05.210 ventilation and intubation has

NOTE Confidence: 0.924928207222222

00:25:05.210 --> 00:25:07.010 been examined in two studies,

NOTE Confidence: 0.924928207222222

00:25:07.010 --> 00:25:09.285 and both did find that OSA was

NOTE Confidence: 0.924928207222222

00:25:09.285 --> 00:25:11.212 a significant predictor of this

NOTE Confidence: 0.924928207222222

00:25:11.212 --> 00:25:12.547 airway management difficulty.

NOTE Confidence: 0.924928207222222

00:25:12.550 --> 00:25:13.174 So far,

NOTE Confidence: 0.924928207222222

00:25:13.174 --> 00:25:14.734 there's been two studies on  
NOTE Confidence: 0.924928207222222

00:25:14.734 --> 00:25:15.670 supraglottic airway insertion,  
NOTE Confidence: 0.924928207222222

00:25:15.670 --> 00:25:17.440 and neither of them found that  
NOTE Confidence: 0.924928207222222

00:25:17.440 --> 00:25:18.977 OSA predicted increased risk with  
NOTE Confidence: 0.924928207222222

00:25:18.977 --> 00:25:19.877 Super Matic airway.  
NOTE Confidence: 0.924928207222222

00:25:19.880 --> 00:25:21.326 Management and to my knowledge no  
NOTE Confidence: 0.924928207222222

00:25:21.326 --> 00:25:23.282 one has done a study of whether  
NOTE Confidence: 0.924928207222222

00:25:23.282 --> 00:25:24.842 surgical airway is more difficult  
NOTE Confidence: 0.924928207222222

00:25:24.842 --> 00:25:25.969 in patients with OSA.  
NOTE Confidence: 0.84657051125

00:25:28.820 --> 00:25:30.360 I wanted to briefly bring up the  
NOTE Confidence: 0.84657051125

00:25:30.360 --> 00:25:32.313 idea of the rostral fluid shift which  
NOTE Confidence: 0.84657051125

00:25:32.313 --> 00:25:34.173 has not received very much attention  
NOTE Confidence: 0.84657051125

00:25:34.228 --> 00:25:35.880 in the anesthesiology literature.  
NOTE Confidence: 0.84657051125

00:25:35.880 --> 00:25:38.760 But my understanding is that it has been  
NOTE Confidence: 0.84657051125

00:25:38.760 --> 00:25:41.220 covered in the Sleep Medicine literature,  
NOTE Confidence: 0.84657051125

00:25:41.220 --> 00:25:42.942 and you know with the idea being

NOTE Confidence: 0.84657051125

00:25:42.942 --> 00:25:44.599 that when patients lie down at night,

NOTE Confidence: 0.84657051125

00:25:44.600 --> 00:25:46.562 the fluid shifts from the lower

NOTE Confidence: 0.84657051125

00:25:46.562 --> 00:25:48.781 extremities up to the neck and and

NOTE Confidence: 0.84657051125

00:25:48.781 --> 00:25:50.887 upper airway can increase upper airway

NOTE Confidence: 0.84657051125

00:25:50.887 --> 00:25:53.128 collapsibility as well as neck fluid volume,

NOTE Confidence: 0.84657051125

00:25:53.130 --> 00:25:56.357 leading to you know one of the

NOTE Confidence: 0.84657051125

00:25:56.357 --> 00:25:58.430 pathophysiologic mechanisms of OSA and.

NOTE Confidence: 0.84657051125

00:25:58.430 --> 00:26:00.110 Certainly there could be, you know,

NOTE Confidence: 0.84657051125

00:26:00.110 --> 00:26:02.273 a component of this relevant to the

NOTE Confidence: 0.84657051125

00:26:02.273 --> 00:26:03.610 interop and postoperative period.

NOTE Confidence: 0.84657051125

00:26:03.610 --> 00:26:05.612 Our patients do tend to be supine

NOTE Confidence: 0.84657051125

00:26:05.612 --> 00:26:08.251 and you tend to get fluid and salt

NOTE Confidence: 0.84657051125

00:26:08.251 --> 00:26:09.961 loads in response to hypotension.

NOTE Confidence: 0.84657051125

00:26:09.970 --> 00:26:12.560 After induction you know blood loss in

NOTE Confidence: 0.84657051125

00:26:12.560 --> 00:26:15.430 the operating room medication administration,

NOTE Confidence: 0.84657051125

00:26:15.430 --> 00:26:18.455 so the implication being that  
NOTE Confidence: 0.84657051125

00:26:18.455 --> 00:26:20.668 potentially management could include  
NOTE Confidence: 0.84657051125

00:26:20.668 --> 00:26:22.276 judicious fluid administration,  
NOTE Confidence: 0.84657051125

00:26:22.280 --> 00:26:24.548 giving fluids with less salt content and  
NOTE Confidence: 0.84657051125

00:26:24.548 --> 00:26:26.850 putting our patients in the head up position.  
NOTE Confidence: 0.84657051125

00:26:26.850 --> 00:26:28.690 After surgery when possible,  
NOTE Confidence: 0.84657051125

00:26:28.690 --> 00:26:31.450 wanted to briefly touch upon regional  
NOTE Confidence: 0.84657051125

00:26:31.523 --> 00:26:32.290 anesthesia.  
NOTE Confidence: 0.84657051125

00:26:32.290 --> 00:26:34.257 You know there are some types of  
NOTE Confidence: 0.84657051125

00:26:34.257 --> 00:26:35.408 surgery as anesthesiologists where  
NOTE Confidence: 0.84657051125

00:26:35.408 --> 00:26:37.186 we have the option to do either  
NOTE Confidence: 0.84657051125

00:26:37.186 --> 00:26:38.653 complete regional or primary regional  
NOTE Confidence: 0.84657051125

00:26:38.653 --> 00:26:40.173 technique as opposed to general  
NOTE Confidence: 0.84657051125

00:26:40.173 --> 00:26:41.962 anesthesia and it make you know.  
NOTE Confidence: 0.84657051125

00:26:41.962 --> 00:26:43.427 Seems like common sense that  
NOTE Confidence: 0.84657051125

00:26:43.427 --> 00:26:45.136 avoiding airway instrumentation and

NOTE Confidence: 0.84657051125  
00:26:45.136 --> 00:26:46.948 sedative medications and potentially  
NOTE Confidence: 0.84657051125  
00:26:46.948 --> 00:26:48.768 sparing opioids would improve  
NOTE Confidence: 0.84657051125  
00:26:48.768 --> 00:26:50.388 outcomes for patients overall.  
NOTE Confidence: 0.84657051125  
00:26:50.390 --> 00:26:52.679 But particularly with OSA and this large  
NOTE Confidence: 0.84657051125  
00:26:52.679 --> 00:26:55.248 database study in the total joint population,  
NOTE Confidence: 0.84657051125  
00:26:55.250 --> 00:26:56.746 including over 400 hospitals.  
NOTE Confidence: 0.84657051125  
00:26:56.746 --> 00:26:59.509 Did show that the adjusted risk of  
NOTE Confidence: 0.84657051125  
00:26:59.509 --> 00:27:01.112 major complications for patients  
NOTE Confidence: 0.84657051125  
00:27:01.112 --> 00:27:03.218 having total joint with OSA was  
NOTE Confidence: 0.84657051125  
00:27:03.218 --> 00:27:05.173 lower when neuraxial anesthesia  
NOTE Confidence: 0.84657051125  
00:27:05.173 --> 00:27:06.511 meaning spinal's or epidurals,  
NOTE Confidence: 0.84657051125  
00:27:06.511 --> 00:27:08.585 or a combination of the two were used  
NOTE Confidence: 0.84657051125  
00:27:08.585 --> 00:27:10.045 as compared to general anesthesia.  
NOTE Confidence: 0.84657051125  
00:27:10.050 --> 00:27:12.372 So there was a modest reduction  
NOTE Confidence: 0.84657051125  
00:27:12.372 --> 00:27:13.620 in adverse events.  
NOTE Confidence: 0.898136451538462

00:27:16.120 --> 00:27:17.895 And finally circling back again  
NOTE Confidence: 0.898136451538462

00:27:17.895 --> 00:27:19.670 to our upper airway surgery  
NOTE Confidence: 0.898136451538462

00:27:19.734 --> 00:27:21.360 intra operative guidelines.  
NOTE Confidence: 0.898136451538462

00:27:21.360 --> 00:27:24.500 Now there's some, you know,  
NOTE Confidence: 0.898136451538462

00:27:24.500 --> 00:27:25.348 strong recommendations,  
NOTE Confidence: 0.898136451538462

00:27:25.348 --> 00:27:28.316 but based on pretty low levels of  
NOTE Confidence: 0.898136451538462

00:27:28.316 --> 00:27:30.110 evidence that premedication that  
NOTE Confidence: 0.898136451538462

00:27:30.110 --> 00:27:32.280 is sedative should be avoided,  
NOTE Confidence: 0.898136451538462

00:27:32.280 --> 00:27:34.524 that opioids should be minimized when  
NOTE Confidence: 0.898136451538462

00:27:34.524 --> 00:27:36.020 possible and multimodal energies  
NOTE Confidence: 0.898136451538462

00:27:36.082 --> 00:27:37.826 that should be used when possible.  
NOTE Confidence: 0.898136451538462

00:27:37.826 --> 00:27:40.004 And these guidelines do do mention  
NOTE Confidence: 0.898136451538462

00:27:40.004 --> 00:27:42.708 that OSA is a risk factor for  
NOTE Confidence: 0.898136451538462

00:27:42.708 --> 00:27:43.857 difficult airway management.  
NOTE Confidence: 0.93749946

00:27:46.840 --> 00:27:50.656 So moving on to postoperative management,  
NOTE Confidence: 0.93749946

00:27:50.660 --> 00:27:53.700 which is where you know a lot of

NOTE Confidence: 0.93749946

00:27:53.700 --> 00:27:56.012 our complications or most of the

NOTE Confidence: 0.93749946

00:27:56.012 --> 00:27:58.152 complications of of OSA happen

NOTE Confidence: 0.93749946

00:27:58.152 --> 00:28:00.216 in the perioperative period.

NOTE Confidence: 0.93749946

00:28:00.220 --> 00:28:01.795 So obviously, opioids have to

NOTE Confidence: 0.93749946

00:28:01.795 --> 00:28:03.756 factor into the discussion and it

NOTE Confidence: 0.93749946

00:28:03.756 --> 00:28:05.416 really is a complicated discussion.

NOTE Confidence: 0.93749946

00:28:05.420 --> 00:28:07.324 Opioids have gotten kind of a bad

NOTE Confidence: 0.93749946

00:28:07.324 --> 00:28:09.130 rap over the last several years

NOTE Confidence: 0.93749946

00:28:09.130 --> 00:28:11.286 due to the opioid epidemic and of

NOTE Confidence: 0.93749946

00:28:11.348 --> 00:28:12.912 course opioid induced respiratory

NOTE Confidence: 0.93749946

00:28:12.912 --> 00:28:15.258 depression is a major problem in

NOTE Confidence: 0.93749946

00:28:15.260 --> 00:28:17.620 hospital patients as well as.

NOTE Confidence: 0.93749946

00:28:17.620 --> 00:28:19.160 Post operative patients and

NOTE Confidence: 0.93749946

00:28:19.160 --> 00:28:20.700 OSA patients in particular,

NOTE Confidence: 0.93749946

00:28:20.700 --> 00:28:22.665 but it's complicated because they're

NOTE Confidence: 0.93749946

00:28:22.665 --> 00:28:24.630 also very effective pain medications.  
NOTE Confidence: 0.93749946

00:28:24.630 --> 00:28:26.260 And there's of course acute  
NOTE Confidence: 0.93749946

00:28:26.260 --> 00:28:27.238 pain after surgery,  
NOTE Confidence: 0.93749946

00:28:27.240 --> 00:28:29.256 and they're titratable and they're effective.  
NOTE Confidence: 0.93749946

00:28:29.260 --> 00:28:32.076 So so we're kind of stuck with them.  
NOTE Confidence: 0.93749946

00:28:32.080 --> 00:28:32.935 For, you know,  
NOTE Confidence: 0.93749946

00:28:32.935 --> 00:28:34.930 multiple types of surgeries and it is  
NOTE Confidence: 0.93749946

00:28:34.988 --> 00:28:36.853 a complicated picture of observational  
NOTE Confidence: 0.93749946

00:28:36.853 --> 00:28:38.718 studies of patients with OSA.  
NOTE Confidence: 0.93749946

00:28:38.720 --> 00:28:40.904 Do suggest an association between opioids  
NOTE Confidence: 0.93749946

00:28:40.904 --> 00:28:43.320 and opioid dose and adverse events,  
NOTE Confidence: 0.93749946

00:28:43.320 --> 00:28:44.682 but not consistently.  
NOTE Confidence: 0.93749946

00:28:44.682 --> 00:28:47.406 And it's possible that mitigating measures.  
NOTE Confidence: 0.93749946

00:28:47.410 --> 00:28:48.650 Such as increased monitoring  
NOTE Confidence: 0.93749946

00:28:48.650 --> 00:28:49.890 or positive air pressure,  
NOTE Confidence: 0.93749946

00:28:49.890 --> 00:28:53.327 do overcome some of those those risks,



NOTE Confidence: 0.93749946  
00:28:53.330 --> 00:28:54.430 and for what it's worth,  
NOTE Confidence: 0.93749946  
00:28:54.430 --> 00:28:56.656 you know there's not much that's  
NOTE Confidence: 0.93749946  
00:28:56.656 --> 00:28:58.140 prospective but one randomized  
NOTE Confidence: 0.93749946  
00:28:58.204 --> 00:28:59.852 controlled trial that randomized  
NOTE Confidence: 0.93749946  
00:28:59.852 --> 00:29:01.500 patients either morphine PCA  
NOTE Confidence: 0.93749946  
00:29:01.500 --> 00:29:03.752 versus a multimodal opioid sparing  
NOTE Confidence: 0.93749946  
00:29:03.752 --> 00:29:06.022 technique didn't find a significant  
NOTE Confidence: 0.93749946  
00:29:06.022 --> 00:29:08.091 difference with the opioid sparing  
NOTE Confidence: 0.93749946  
00:29:08.091 --> 00:29:10.026 technique in terms of apneas,  
NOTE Confidence: 0.93749946  
00:29:10.030 --> 00:29:12.510 hypopneas or overall respiratory events.  
NOTE Confidence: 0.933739643333333  
00:29:15.060 --> 00:29:18.196 But what we are kind of more  
NOTE Confidence: 0.933739643333333  
00:29:18.196 --> 00:29:20.656 confident in is that patients who  
NOTE Confidence: 0.933739643333333  
00:29:20.656 --> 00:29:22.601 do have respiratory events apneas  
NOTE Confidence: 0.933739643333333  
00:29:22.601 --> 00:29:25.131 high pop me as desaturations early  
NOTE Confidence: 0.933739643333333  
00:29:25.131 --> 00:29:27.206 on in their postoperative course,  
NOTE Confidence: 0.933739643333333

00:29:27.210 --> 00:29:29.210 are likely to have them later on in  
NOTE Confidence: 0.9337396433333333

00:29:29.210 --> 00:29:30.439 their postoperative course as well.  
NOTE Confidence: 0.9337396433333333

00:29:30.440 --> 00:29:31.544 So this observation,  
NOTE Confidence: 0.9337396433333333

00:29:31.544 --> 00:29:33.752 ULL study of patients who screened  
NOTE Confidence: 0.9337396433333333

00:29:33.752 --> 00:29:36.146 as being highly likely to be at risk  
NOTE Confidence: 0.9337396433333333

00:29:36.146 --> 00:29:38.141 for OSA in the preoperative period  
NOTE Confidence: 0.9337396433333333

00:29:38.141 --> 00:29:40.675 were observed in the pacu and the  
NOTE Confidence: 0.9337396433333333

00:29:40.680 --> 00:29:42.288 patients who were observed who were  
NOTE Confidence: 0.9337396433333333

00:29:42.288 --> 00:29:44.307 thought to be high risk and then had.  
NOTE Confidence: 0.9337396433333333

00:29:44.310 --> 00:29:46.830 Pack you index events such as  
NOTE Confidence: 0.9337396433333333

00:29:46.830 --> 00:29:48.510 hypoxemia or witnessed apnea.  
NOTE Confidence: 0.9337396433333333

00:29:48.510 --> 00:29:50.148 Went on later on in their hospital  
NOTE Confidence: 0.9337396433333333

00:29:50.148 --> 00:29:51.428 course to have a you know,  
NOTE Confidence: 0.9337396433333333

00:29:51.430 --> 00:29:53.762 tremendously increased odds of  
NOTE Confidence: 0.9337396433333333

00:29:53.762 --> 00:29:56.094 having further respiratory events,  
NOTE Confidence: 0.9337396433333333

00:29:56.100 --> 00:29:57.500 which suggests that this is

NOTE Confidence: 0.933739643333333  
00:29:57.500 --> 00:29:59.280 where really you know we could.  
NOTE Confidence: 0.933739643333333  
00:29:59.280 --> 00:30:02.466 We could focus our expensive resources  
NOTE Confidence: 0.933739643333333  
00:30:02.466 --> 00:30:05.170 in terms of specialized pathways  
NOTE Confidence: 0.933739643333333  
00:30:05.170 --> 00:30:07.610 in terms of increased monitoring  
NOTE Confidence: 0.933739643333333  
00:30:07.610 --> 00:30:10.256 and in terms of possibly initiating  
NOTE Confidence: 0.933739643333333  
00:30:10.256 --> 00:30:11.628 positive airway pressure when  
NOTE Confidence: 0.933739643333333  
00:30:11.628 --> 00:30:13.529 someone hasn't been on it before.  
NOTE Confidence: 0.784598908  
00:30:17.640 --> 00:30:19.932 And a quick plug too. That's awesome.  
NOTE Confidence: 0.784598908  
00:30:19.932 --> 00:30:21.556 Soca and Samba postoperative  
NOTE Confidence: 0.784598908  
00:30:21.556 --> 00:30:24.485 guidelines that are a work in progress  
NOTE Confidence: 0.784598908  
00:30:24.485 --> 00:30:26.137 that doctor Hilbert mentioned.  
NOTE Confidence: 0.784598908  
00:30:26.140 --> 00:30:27.140 It's been, you know,  
NOTE Confidence: 0.784598908  
00:30:27.140 --> 00:30:28.970 a real honor to be part of  
NOTE Confidence: 0.784598908  
00:30:28.970 --> 00:30:30.300 the writing group so far.  
NOTE Confidence: 0.784598908  
00:30:30.300 --> 00:30:32.562 We're currently in the data extraction  
NOTE Confidence: 0.784598908

00:30:32.562 --> 00:30:34.738 phase and the methodology for this  
NOTE Confidence: 0.784598908

00:30:34.738 --> 00:30:36.845 guideline is really state of the art.  
NOTE Confidence: 0.784598908

00:30:36.850 --> 00:30:38.338 All this awesome guidelines were but  
NOTE Confidence: 0.784598908

00:30:38.338 --> 00:30:40.059 this one we're trying to even approve,  
NOTE Confidence: 0.784598908

00:30:40.060 --> 00:30:43.846 improve upon further with having patient  
NOTE Confidence: 0.784598908

00:30:43.846 --> 00:30:45.620 representatives as well as you know,  
NOTE Confidence: 0.784598908

00:30:45.620 --> 00:30:47.700 other other aspects of.  
NOTE Confidence: 0.784598908

00:30:47.700 --> 00:30:51.099 Really state of the art guideline formation,  
NOTE Confidence: 0.784598908

00:30:51.099 --> 00:30:53.331 and so we're hoping to be able to  
NOTE Confidence: 0.784598908

00:30:53.331 --> 00:30:54.988 make recommendations on as many  
NOTE Confidence: 0.784598908

00:30:54.988 --> 00:30:56.968 of these topics that are really  
NOTE Confidence: 0.784598908

00:30:57.028 --> 00:30:58.508 important for the postoperative  
NOTE Confidence: 0.784598908

00:30:58.508 --> 00:31:00.728 care of OSA patients as possible.  
NOTE Confidence: 0.784598908

00:31:00.730 --> 00:31:02.978 So hopefully stay tuned within the next year.  
NOTE Confidence: 0.784598908

00:31:02.980 --> 00:31:05.479 So we published in anesthesia and analgesia.  
NOTE Confidence: 0.92626429125

00:31:08.330 --> 00:31:10.440 Going back to our upper

NOTE Confidence: 0.92626429125

00:31:10.440 --> 00:31:11.706 airway surgery guidelines,

NOTE Confidence: 0.92626429125

00:31:11.710 --> 00:31:14.160 there's you know multiple recommendations

NOTE Confidence: 0.92626429125

00:31:14.160 --> 00:31:16.610 for the postoperative period which

NOTE Confidence: 0.92626429125

00:31:16.684 --> 00:31:18.880 speaks to the tenuous time period.

NOTE Confidence: 0.92626429125

00:31:18.880 --> 00:31:20.987 This is for our patients with OSA,

NOTE Confidence: 0.92626429125

00:31:20.990 --> 00:31:24.104 a couple of kind of weak recommendations,

NOTE Confidence: 0.92626429125

00:31:24.104 --> 00:31:26.909 but not too hard to to follow to avoid

NOTE Confidence: 0.92626429125

00:31:26.909 --> 00:31:29.153 the supine position in the postoperative

NOTE Confidence: 0.92626429125

00:31:29.153 --> 00:31:31.430 setting and elevating the head of the bed,

NOTE Confidence: 0.92626429125

00:31:31.430 --> 00:31:34.218 which makes good sense.

NOTE Confidence: 0.92626429125

00:31:34.220 --> 00:31:36.134 And then there's a recommendation for

NOTE Confidence: 0.92626429125

00:31:36.134 --> 00:31:38.052 in addition to standard monitoring in

NOTE Confidence: 0.92626429125

00:31:38.052 --> 00:31:40.103 the pack you that patients with OSA

NOTE Confidence: 0.92626429125

00:31:40.103 --> 00:31:41.790 having upper airway surgery should

NOTE Confidence: 0.92626429125

00:31:41.790 --> 00:31:43.800 have breathing monitoring as well be

NOTE Confidence: 0.92626429125

00:31:43.800 --> 00:31:47.256 entitled CL two or impedance monitoring.  
NOTE Confidence: 0.92626429125

00:31:47.260 --> 00:31:48.708 There's a recommendation specifically  
NOTE Confidence: 0.92626429125

00:31:48.708 --> 00:31:50.518 about which patients are candidates  
NOTE Confidence: 0.92626429125

00:31:50.518 --> 00:31:52.487 for positive air pressure afterwards,  
NOTE Confidence: 0.92626429125

00:31:52.490 --> 00:31:54.070 and it's recommended versus those  
NOTE Confidence: 0.92626429125

00:31:54.070 --> 00:31:56.414 where you may want to avoid it  
NOTE Confidence: 0.92626429125

00:31:56.414 --> 00:31:58.169 due to possibly disrupting tissue  
NOTE Confidence: 0.92626429125

00:31:58.169 --> 00:31:59.740 planes right after surgery.  
NOTE Confidence: 0.92626429125

00:31:59.740 --> 00:32:01.588 And a recommendation that OSA severity  
NOTE Confidence: 0.92626429125

00:32:01.588 --> 00:32:03.733 should be one factor in the decision  
NOTE Confidence: 0.92626429125

00:32:03.733 --> 00:32:05.490 making regarding whether a patient can  
NOTE Confidence: 0.92626429125

00:32:05.490 --> 00:32:08.238 go home on the same day as their surgery.  
NOTE Confidence: 0.92626429125

00:32:08.240 --> 00:32:09.944 There's some specific recommendations  
NOTE Confidence: 0.92626429125

00:32:09.944 --> 00:32:12.491 I wanted to highlight about nasal  
NOTE Confidence: 0.92626429125

00:32:12.491 --> 00:32:14.546 surgery in particular and minimally  
NOTE Confidence: 0.92626429125

00:32:14.546 --> 00:32:16.700 invasive surgery in the pallet,

NOTE Confidence: 0.92626429125

00:32:16.700 --> 00:32:19.210 and whether those patients need

NOTE Confidence: 0.92626429125

00:32:19.210 --> 00:32:21.218 prolonged monitoring versus are

NOTE Confidence: 0.92626429125

00:32:21.218 --> 00:32:23.799 able to have ambulatory surgery,

NOTE Confidence: 0.92626429125

00:32:23.800 --> 00:32:25.652 and specifically the patients

NOTE Confidence: 0.92626429125

00:32:25.652 --> 00:32:27.967 having invasive palatal surgery do

NOTE Confidence: 0.92626429125

00:32:27.967 --> 00:32:30.267 not need to receive prolonged.

NOTE Confidence: 0.92626429125

00:32:30.270 --> 00:32:31.671 Postoperative monitoring and

NOTE Confidence: 0.92626429125

00:32:31.671 --> 00:32:33.539 potentially could be appropriate

NOTE Confidence: 0.92626429125

00:32:33.539 --> 00:32:36.305 for a floor bed if if the surgeon

NOTE Confidence: 0.92626429125

00:32:36.305 --> 00:32:37.525 in the anesthesiologist degree,

NOTE Confidence: 0.92626429125

00:32:37.530 --> 00:32:39.525 however patients with invasive lower

NOTE Confidence: 0.92626429125

00:32:39.525 --> 00:32:41.520 pharyngeal airway surgery should have

NOTE Confidence: 0.92626429125

00:32:41.580 --> 00:32:43.470 prolonged postoperative monitoring.

NOTE Confidence: 0.89681443

00:32:46.940 --> 00:32:49.748 So given the plethora of guidelines

NOTE Confidence: 0.89681443

00:32:49.748 --> 00:32:52.100 for this complicated problem of the

NOTE Confidence: 0.89681443

00:32:52.172 --> 00:32:54.200 perioperative management of OSA,  
NOTE Confidence: 0.89681443

00:32:54.200 --> 00:32:56.640 how are we doing at following the guidelines?  
NOTE Confidence: 0.89681443

00:32:56.640 --> 00:32:58.835 As you know, perioperative physicians  
NOTE Confidence: 0.89681443

00:32:58.835 --> 00:33:01.872 and physicians involved in the care of  
NOTE Confidence: 0.89681443

00:33:01.872 --> 00:33:04.194 patients with OSA either Sleep Medicine,  
NOTE Confidence: 0.89681443

00:33:04.200 --> 00:33:05.452 specialist surgeons,  
NOTE Confidence: 0.89681443

00:33:05.452 --> 00:33:07.330 or family practitioners,  
NOTE Confidence: 0.89681443

00:33:07.330 --> 00:33:08.878 or primary care provider as well.  
NOTE Confidence: 0.89681443

00:33:08.880 --> 00:33:11.085 This is a large survey study of  
NOTE Confidence: 0.89681443

00:33:11.085 --> 00:33:12.779 USA physicians involved in the  
NOTE Confidence: 0.89681443

00:33:12.779 --> 00:33:14.499 perioperative care of OSA patients,  
NOTE Confidence: 0.89681443

00:33:14.500 --> 00:33:16.990 and unfortunately, only 27% reported that  
NOTE Confidence: 0.89681443

00:33:16.990 --> 00:33:19.789 their hospital had a specific policy.  
NOTE Confidence: 0.89681443

00:33:19.790 --> 00:33:21.446 For the pre operative care of OSA patients,  
NOTE Confidence: 0.89681443

00:33:21.450 --> 00:33:23.774 there's definitely still work to be done.  
NOTE Confidence: 0.89681443

00:33:23.780 --> 00:33:25.555 And then the survey respondents



NOTE Confidence: 0.89681443

00:33:25.555 --> 00:33:27.330 were asked with a hypothetical

NOTE Confidence: 0.89681443

00:33:27.389 --> 00:33:29.049 patient who presents to them,

NOTE Confidence: 0.89681443

00:33:29.050 --> 00:33:31.205 and they suspect the patient

NOTE Confidence: 0.89681443

00:33:31.205 --> 00:33:33.720 probably has moderate to severe OSA.

NOTE Confidence: 0.89681443

00:33:33.720 --> 00:33:35.620 What would their recommendation be

NOTE Confidence: 0.89681443

00:33:35.620 --> 00:33:37.944 in terms of proceeding with surgery

NOTE Confidence: 0.89681443

00:33:37.944 --> 00:33:40.098 versus doing further work up and?

NOTE Confidence: 0.89681443

00:33:40.100 --> 00:33:41.365 Anesthesiologist the majority said that

NOTE Confidence: 0.89681443

00:33:41.365 --> 00:33:43.518 they would go ahead and proceed with surgery,

NOTE Confidence: 0.89681443

00:33:43.520 --> 00:33:46.698 but manage the patients as if they

NOTE Confidence: 0.89681443

00:33:46.698 --> 00:33:48.832 had suspected OSA Sleep Medicine

NOTE Confidence: 0.89681443

00:33:48.832 --> 00:33:51.148 specialists said either the same or

NOTE Confidence: 0.89681443

00:33:51.148 --> 00:33:53.247 that they would delay surgery to

NOTE Confidence: 0.89681443

00:33:53.247 --> 00:33:55.720 get a sleep study prior to surgery.

NOTE Confidence: 0.89681443

00:33:55.720 --> 00:33:57.184 Surgeons were kind of split in

NOTE Confidence: 0.89681443

00:33:57.184 --> 00:33:58.160 terms of their response.  
NOTE Confidence: 0.89681443

00:33:58.160 --> 00:33:59.434 A good number of them said that  
NOTE Confidence: 0.89681443

00:33:59.434 --> 00:34:00.794 they would just proceed to surgery  
NOTE Confidence: 0.89681443

00:34:00.794 --> 00:34:02.079 with no special measures measures.  
NOTE Confidence: 0.89681443

00:34:02.080 --> 00:34:03.598 Some said that they would proceed  
NOTE Confidence: 0.89681443

00:34:03.598 --> 00:34:05.119 and assume the patient had OSA  
NOTE Confidence: 0.89681443

00:34:05.119 --> 00:34:06.505 and others said they would refer.  
NOTE Confidence: 0.89681443

00:34:06.510 --> 00:34:08.795 But primary care physicians for  
NOTE Confidence: 0.89681443

00:34:08.795 --> 00:34:12.070 the most part, you know.  
NOTE Confidence: 0.89681443

00:34:12.070 --> 00:34:13.790 Which said that they would,  
NOTE Confidence: 0.89681443

00:34:13.790 --> 00:34:14.418 you know,  
NOTE Confidence: 0.89681443

00:34:14.418 --> 00:34:15.988 proceed to surgery without any  
NOTE Confidence: 0.89681443

00:34:15.988 --> 00:34:16.616 particular recommendations.  
NOTE Confidence: 0.945555182857143

00:34:20.900 --> 00:34:22.524 How are we doing here at Yale?  
NOTE Confidence: 0.945555182857143

00:34:22.530 --> 00:34:25.780 Well, we have some.  
NOTE Confidence: 0.945555182857143

00:34:25.780 --> 00:34:27.436 I wouldn't say protocols in place,

NOTE Confidence: 0.945555182857143  
00:34:27.440 --> 00:34:30.576 but some in addition to, you know,  
NOTE Confidence: 0.945555182857143  
00:34:30.576 --> 00:34:32.094 recognizing in our pre operative note  
NOTE Confidence: 0.945555182857143  
00:34:32.094 --> 00:34:34.115 whether a patient has OSA or suspected OSA.  
NOTE Confidence: 0.945555182857143  
00:34:34.120 --> 00:34:36.542 We do have a modification to our  
NOTE Confidence: 0.945555182857143  
00:34:36.542 --> 00:34:39.419 pack you order set that is relevant  
NOTE Confidence: 0.945555182857143  
00:34:39.419 --> 00:34:41.183 to this patient population.  
NOTE Confidence: 0.945555182857143  
00:34:41.190 --> 00:34:42.434 So just for comparison,  
NOTE Confidence: 0.945555182857143  
00:34:42.434 --> 00:34:44.300 this is what our regular pacu  
NOTE Confidence: 0.945555182857143  
00:34:44.362 --> 00:34:46.297 discharge orders that looks like,  
NOTE Confidence: 0.945555182857143  
00:34:46.300 --> 00:34:48.226 or as a component of it.  
NOTE Confidence: 0.945555182857143  
00:34:48.230 --> 00:34:49.690 It's not the whole thing, but in while  
NOTE Confidence: 0.945555182857143  
00:34:49.690 --> 00:34:51.690 in the packet the patients vital signs are.  
NOTE Confidence: 0.945555182857143  
00:34:51.690 --> 00:34:54.026 Monitored rich in every 15 minutes and then  
NOTE Confidence: 0.945555182857143  
00:34:54.026 --> 00:34:56.127 patients can be discharged from the pack.  
NOTE Confidence: 0.945555182857143  
00:34:56.130 --> 00:34:57.544 You either to the floor or it's  
NOTE Confidence: 0.945555182857143

00:34:57.544 --> 00:34:59.169 a home for ambulatory patients.  
NOTE Confidence: 0.945555182857143

00:34:59.170 --> 00:35:01.335 Once they've met certain packet  
NOTE Confidence: 0.945555182857143

00:35:01.335 --> 00:35:03.600 criteria known as the already criteria,  
NOTE Confidence: 0.945555182857143

00:35:03.600 --> 00:35:04.810 but it's really a nurse,  
NOTE Confidence: 0.945555182857143

00:35:04.810 --> 00:35:06.602 a nursing driven decision.  
NOTE Confidence: 0.945555182857143

00:35:06.602 --> 00:35:09.290 There's a special section of the  
NOTE Confidence: 0.945555182857143

00:35:09.375 --> 00:35:12.189 discharge order set for OSA patients.  
NOTE Confidence: 0.945555182857143

00:35:12.190 --> 00:35:14.926 Which one clicked will provide an  
NOTE Confidence: 0.945555182857143

00:35:14.926 --> 00:35:16.750 order specifically for ambulatory  
NOTE Confidence: 0.945555182857143

00:35:16.818 --> 00:35:19.140 patients with known or suspected OSA  
NOTE Confidence: 0.945555182857143

00:35:19.140 --> 00:35:21.649 to be observed prior to discharge.  
NOTE Confidence: 0.945555182857143

00:35:21.650 --> 00:35:23.426 Home in a quiet, you know,  
NOTE Confidence: 0.945555182857143

00:35:23.430 --> 00:35:26.041 setting on room air to make sure  
NOTE Confidence: 0.945555182857143

00:35:26.041 --> 00:35:28.792 that they don't have signs of of  
NOTE Confidence: 0.945555182857143

00:35:28.792 --> 00:35:30.388 desaturation or hypoventilation.  
NOTE Confidence: 0.945555182857143

00:35:30.388 --> 00:35:34.207 And then after that could be considered

NOTE Confidence: 0.945555182857143  
00:35:34.207 --> 00:35:36.798 OK to discharge a special order for  
NOTE Confidence: 0.945555182857143  
00:35:36.798 --> 00:35:38.450 patients own CPAP if they have it.  
NOTE Confidence: 0.945555182857143  
00:35:38.450 --> 00:35:40.175 And then importantly that the  
NOTE Confidence: 0.945555182857143  
00:35:40.175 --> 00:35:41.900 patient should be discharged from  
NOTE Confidence: 0.945555182857143  
00:35:41.959 --> 00:35:44.063 the pack you either to home or to  
NOTE Confidence: 0.945555182857143  
00:35:44.063 --> 00:35:46.081 an unmonitored floor bed only after  
NOTE Confidence: 0.945555182857143  
00:35:46.081 --> 00:35:47.876 evaluation by an anesthesia attending.  
NOTE Confidence: 0.945555182857143  
00:35:47.880 --> 00:35:49.553 I think the use of this is  
NOTE Confidence: 0.945555182857143  
00:35:49.553 --> 00:35:50.713 pretty variable among different  
NOTE Confidence: 0.945555182857143  
00:35:50.713 --> 00:35:52.269 anesthesiologists as well as.  
NOTE Confidence: 0.945555182857143  
00:35:52.270 --> 00:35:54.022 Got different delivery networks  
NOTE Confidence: 0.945555182857143  
00:35:54.022 --> 00:35:56.650 within the Yale New Haven Health  
NOTE Confidence: 0.945555182857143  
00:35:56.719 --> 00:35:59.146 system and aside from this I only know  
NOTE Confidence: 0.945555182857143  
00:35:59.146 --> 00:36:01.311 of one other OSA related specific  
NOTE Confidence: 0.945555182857143  
00:36:01.311 --> 00:36:02.959 perioperative pathway which is  
NOTE Confidence: 0.945555182857143

00:36:02.959 --> 00:36:05.655 used at the Saint Rayfield campus  
NOTE Confidence: 0.945555182857143

00:36:05.655 --> 00:36:07.975 specifically for patients having spine  
NOTE Confidence: 0.945555182857143

00:36:07.975 --> 00:36:10.131 surgery or total joint replacement,  
NOTE Confidence: 0.945555182857143

00:36:10.131 --> 00:36:12.166 but definitely room for improvement  
NOTE Confidence: 0.945555182857143

00:36:12.166 --> 00:36:14.008 in perioperative pathways of patients  
NOTE Confidence: 0.945555182857143

00:36:14.008 --> 00:36:15.946 with OSA within the health system.  
NOTE Confidence: 0.945555182857143

00:36:15.950 --> 00:36:17.854 So if anyone is interested in partnering  
NOTE Confidence: 0.945555182857143

00:36:17.854 --> 00:36:20.890 on that note, please do reach out.  
NOTE Confidence: 0.945555182857143

00:36:20.890 --> 00:36:21.871 And then finally,  
NOTE Confidence: 0.945555182857143

00:36:21.871 --> 00:36:24.160 before I give a summary and open  
NOTE Confidence: 0.945555182857143

00:36:24.228 --> 00:36:26.335 it up for questions I wanted to  
NOTE Confidence: 0.945555182857143

00:36:26.335 --> 00:36:28.433 talk about the public health impact  
NOTE Confidence: 0.945555182857143

00:36:28.433 --> 00:36:30.835 of screening patients for OSA in  
NOTE Confidence: 0.945555182857143

00:36:30.835 --> 00:36:32.050 the perioperative period,  
NOTE Confidence: 0.945555182857143

00:36:32.050 --> 00:36:33.832 getting them safely through surgery and  
NOTE Confidence: 0.945555182857143

00:36:33.832 --> 00:36:35.713 then referring them to Sleep Medicine

NOTE Confidence: 0.945555182857143

00:36:35.713 --> 00:36:37.318 for Poly sonography and potential

NOTE Confidence: 0.945555182857143

00:36:37.318 --> 00:36:39.289 treatment of their OSA postoperatively.

NOTE Confidence: 0.945555182857143

00:36:39.290 --> 00:36:41.005 So this is a study that followed

NOTE Confidence: 0.945555182857143

00:36:41.005 --> 00:36:42.284 patients who screen positive for

NOTE Confidence: 0.945555182857143

00:36:42.284 --> 00:36:43.999 OSA in a preoperative clinic and of

NOTE Confidence: 0.945555182857143

00:36:43.999 --> 00:36:45.642 the couple thousand patients over a

NOTE Confidence: 0.945555182857143

00:36:45.642 --> 00:36:48.690 few year period of screen positive.

NOTE Confidence: 0.945555182857143

00:36:48.690 --> 00:36:50.510 They were able to follow up with

NOTE Confidence: 0.945555182857143

00:36:50.510 --> 00:36:52.535 211 of them who went on to have Poly

NOTE Confidence: 0.945555182857143

00:36:52.535 --> 00:36:54.350 sonography and a official diagnosis of OSA.

NOTE Confidence: 0.945555182857143

00:36:54.350 --> 00:36:55.706 And of those 211,

NOTE Confidence: 0.945555182857143

00:36:55.706 --> 00:36:57.401 eighty 8 received a prescription

NOTE Confidence: 0.945555182857143

00:36:57.401 --> 00:36:59.506 for CPAP and answered a survey,

NOTE Confidence: 0.945555182857143

00:36:59.510 --> 00:37:02.836 and of those 8855% were non compliant

NOTE Confidence: 0.945555182857143

00:37:02.836 --> 00:37:05.645 and 45% were compliant with their

NOTE Confidence: 0.945555182857143

00:37:05.645 --> 00:37:07.106 C PAP treatment.  
NOTE Confidence: 0.945555182857143

00:37:07.110 --> 00:37:09.750 For those 40 patients they did  
NOTE Confidence: 0.945555182857143

00:37:09.750 --> 00:37:11.070 report improved snoring,  
NOTE Confidence: 0.945555182857143

00:37:11.070 --> 00:37:12.995 sleep quality and daytime sleep  
NOTE Confidence: 0.945555182857143

00:37:12.995 --> 00:37:14.535 sleepiness relative to those  
NOTE Confidence: 0.945555182857143

00:37:14.535 --> 00:37:16.709 who are not compliant with C PAP  
NOTE Confidence: 0.945555182857143

00:37:16.709 --> 00:37:17.861 or not treated with  
NOTE Confidence: 0.877548800454545

00:37:17.929 --> 00:37:20.450 C PAP and they also really importantly.  
NOTE Confidence: 0.877548800454545

00:37:20.450 --> 00:37:22.370 Reported a decrease need for medications  
NOTE Confidence: 0.877548800454545

00:37:22.370 --> 00:37:24.190 for comorbidities that they had originally  
NOTE Confidence: 0.877548800454545

00:37:24.190 --> 00:37:26.150 been on at the time of their surgery.  
NOTE Confidence: 0.877548800454545

00:37:26.150 --> 00:37:27.419 Hypertension, diabetes, asthma,  
NOTE Confidence: 0.877548800454545

00:37:27.419 --> 00:37:29.534 GERD need for medication for  
NOTE Confidence: 0.877548800454545

00:37:29.534 --> 00:37:31.609 all of these comorbidities had  
NOTE Confidence: 0.877548800454545

00:37:31.609 --> 00:37:33.925 decreased with the use of CPAP,  
NOTE Confidence: 0.877548800454545

00:37:33.930 --> 00:37:35.245 which this audience knows well



NOTE Confidence: 0.877548800454545  
00:37:35.245 --> 00:37:36.944 of all the benefits of treating  
NOTE Confidence: 0.877548800454545  
00:37:36.944 --> 00:37:38.599 sleep apnea for overall health,  
NOTE Confidence: 0.877548800454545  
00:37:38.600 --> 00:37:40.832 so these patients were discovered in  
NOTE Confidence: 0.877548800454545  
00:37:40.832 --> 00:37:42.645 the perioperative period and those  
NOTE Confidence: 0.877548800454545  
00:37:42.645 --> 00:37:44.749 that did go on to get a prescription  
NOTE Confidence: 0.877548800454545  
00:37:44.749 --> 00:37:46.930 for CPAP after a diagnosis of OSA  
NOTE Confidence: 0.877548800454545  
00:37:46.930 --> 00:37:48.650 and then actually adhere to that  
NOTE Confidence: 0.877548800454545  
00:37:48.650 --> 00:37:49.850 treatment had an improvement in  
NOTE Confidence: 0.877548800454545  
00:37:49.850 --> 00:37:50.929 their overall quality of life.  
NOTE Confidence: 0.877548800454545  
00:37:50.930 --> 00:37:53.499 So a big impact that we can  
NOTE Confidence: 0.877548800454545  
00:37:53.499 --> 00:37:55.360 make in perioperative medicine.  
NOTE Confidence: 0.877548800454545  
00:37:55.360 --> 00:37:57.593 So in summary OSA is associated with  
NOTE Confidence: 0.877548800454545  
00:37:57.593 --> 00:37:59.615 increased risk of cardio pulmonary  
NOTE Confidence: 0.877548800454545  
00:37:59.615 --> 00:38:02.110 complications in the perioperative period.  
NOTE Confidence: 0.877548800454545  
00:38:02.110 --> 00:38:03.124 Mortality, while rare,  
NOTE Confidence: 0.877548800454545

00:38:03.124 --> 00:38:05.490 has definitely been reported in case reports,  
NOTE Confidence: 0.877548800454545

00:38:05.490 --> 00:38:06.638 registries and closed claims,  
NOTE Confidence: 0.877548800454545

00:38:06.638 --> 00:38:07.786 and as you know,  
NOTE Confidence: 0.877548800454545

00:38:07.790 --> 00:38:11.038 a fear that we deal with everyday as as  
NOTE Confidence: 0.877548800454545

00:38:11.038 --> 00:38:12.646 practicing perioperative physicians,  
NOTE Confidence: 0.877548800454545

00:38:12.650 --> 00:38:14.146 there is currently insufficient  
NOTE Confidence: 0.877548800454545

00:38:14.146 --> 00:38:16.016 evidence to recommend delaying surgery  
NOTE Confidence: 0.877548800454545

00:38:16.016 --> 00:38:18.010 for polysomnography for all comers.  
NOTE Confidence: 0.877548800454545

00:38:18.010 --> 00:38:19.110 But for the highest risk,  
NOTE Confidence: 0.877548800454545

00:38:19.110 --> 00:38:20.712 patients with comorbidities,  
NOTE Confidence: 0.877548800454545

00:38:20.712 --> 00:38:22.848 that is a recommendation.  
NOTE Confidence: 0.877548800454545

00:38:22.850 --> 00:38:24.758 There's indirect evidence that suggests CPAP  
NOTE Confidence: 0.877548800454545

00:38:24.758 --> 00:38:27.349 may reduce risk in the perioperative period.  
NOTE Confidence: 0.877548800454545

00:38:27.350 --> 00:38:28.590 Many hospitals lack protocols  
NOTE Confidence: 0.877548800454545

00:38:28.590 --> 00:38:30.450 for period of management of OSA  
NOTE Confidence: 0.877548800454545

00:38:30.509 --> 00:38:32.189 despite a plethora of guidelines.

NOTE Confidence: 0.877548800454545

00:38:32.190 --> 00:38:33.902 Suggesting protocols for perioperative

NOTE Confidence: 0.877548800454545

00:38:33.902 --> 00:38:36.039 management of OSA and then further

NOTE Confidence: 0.877548800454545

00:38:36.039 --> 00:38:37.737 study is needed to determine the

NOTE Confidence: 0.877548800454545

00:38:37.737 --> 00:38:39.558 optimal balance between the risk

NOTE Confidence: 0.877548800454545

00:38:39.558 --> 00:38:41.046 reduction and resource utilization.

NOTE Confidence: 0.877548800454545

00:38:41.050 --> 00:38:43.190 Because it's such a prevalent

NOTE Confidence: 0.877548800454545

00:38:43.190 --> 00:38:44.856 problem and you know we want to

NOTE Confidence: 0.877548800454545

00:38:44.856 --> 00:38:46.370 reduce the risk to our patients.

NOTE Confidence: 0.877548800454545

00:38:46.370 --> 00:38:48.460 But without you know unnecessary

NOTE Confidence: 0.877548800454545

00:38:48.460 --> 00:38:50.550 resource utilizations that has to

NOTE Confidence: 0.877548800454545

00:38:50.613 --> 00:38:52.825 be a factor in all decision making.

NOTE Confidence: 0.877548800454545

00:38:52.830 --> 00:38:53.762 Of course,

NOTE Confidence: 0.877548800454545

00:38:53.762 --> 00:38:56.092 as physicians and then finally

NOTE Confidence: 0.877548800454545

00:38:56.092 --> 00:38:57.490 the PARRIOTT appeared,

NOTE Confidence: 0.877548800454545

00:38:57.490 --> 00:38:59.715 represents an opportunity to initiate

NOTE Confidence: 0.877548800454545

00:38:59.715 --> 00:39:01.940 referral for high risk patients  
NOTE Confidence: 0.877548800454545

00:39:02.008 --> 00:39:03.878 to potentially have a bigger.  
NOTE Confidence: 0.877548800454545

00:39:03.880 --> 00:39:05.008 Public health impact  
NOTE Confidence: 0.966113026666667

00:39:08.180 --> 00:39:09.260 So thank you again so much.  
NOTE Confidence: 0.966113026666667

00:39:09.260 --> 00:39:10.600 Doctor Hibbert for the opportunity.  
NOTE Confidence: 0.966113026666667

00:39:10.600 --> 00:39:12.322 My email address is there for anyone  
NOTE Confidence: 0.966113026666667

00:39:12.322 --> 00:39:13.583 who's interested in following up  
NOTE Confidence: 0.966113026666667

00:39:13.583 --> 00:39:15.228 and I'm happy to take questions no.  
NOTE Confidence: 0.948444611428571

00:39:16.270 --> 00:39:18.286 Thank you so much. That was wonderful.  
NOTE Confidence: 0.948444611428571

00:39:18.290 --> 00:39:19.319 Wonderful doctor \*\*\*\*\*.  
NOTE Confidence: 0.948444611428571

00:39:19.319 --> 00:39:20.348 Really great overview.  
NOTE Confidence: 0.948444611428571

00:39:20.350 --> 00:39:23.446 I love how organized it was.  
NOTE Confidence: 0.948444611428571

00:39:23.450 --> 00:39:24.170 Let me ask you.  
NOTE Confidence: 0.948444611428571

00:39:24.170 --> 00:39:26.060 Well, people are starting to think about  
NOTE Confidence: 0.948444611428571

00:39:26.060 --> 00:39:28.028 their questions and putting them in the chat.  
NOTE Confidence: 0.948444611428571

00:39:28.030 --> 00:39:30.150 What do you think? Why?

NOTE Confidence: 0.948444611428571

00:39:30.150 --> 00:39:32.062 Why is it that you know with all

NOTE Confidence: 0.948444611428571

00:39:32.062 --> 00:39:33.569 these guidelines you mention all

NOTE Confidence: 0.948444611428571

00:39:33.569 --> 00:39:35.189 these beautiful guidelines out there?

NOTE Confidence: 0.948444611428571

00:39:35.190 --> 00:39:37.428 Why is it that of these

NOTE Confidence: 0.948444611428571

00:39:37.428 --> 00:39:38.547 ambulatory anesthesia centers,

NOTE Confidence: 0.948444611428571

00:39:38.550 --> 00:39:41.148 only 60% are following the guidelines?

NOTE Confidence: 0.948444611428571

00:39:41.150 --> 00:39:43.928 And why is it that hospitals only 27%

NOTE Confidence: 0.948444611428571

00:39:43.928 --> 00:39:46.218 have perioperative management, is it?

NOTE Confidence: 0.948444611428571

00:39:46.220 --> 00:39:47.720 Is it that there's not?

NOTE Confidence: 0.948444611428571

00:39:47.720 --> 00:39:49.120 People aren't reading the guidelines

NOTE Confidence: 0.948444611428571

00:39:49.120 --> 00:39:51.319 or we have to do more outreach?

NOTE Confidence: 0.948444611428571

00:39:51.320 --> 00:39:53.077 Is it people don't buy into them?

NOTE Confidence: 0.948444611428571

00:39:53.080 --> 00:39:55.180 Is it just lack of time?

NOTE Confidence: 0.948444611428571

00:39:55.180 --> 00:39:56.536 And how can we help that?

NOTE Confidence: 0.948444611428571

00:39:56.540 --> 00:39:57.672 What can we do?

NOTE Confidence: 0.948444611428571

00:39:57.672 --> 00:39:58.238 I think  
NOTE Confidence: 0.9351868033333333

00:39:58.250 --> 00:39:59.876 this is a really great question  
NOTE Confidence: 0.9351868033333333

00:39:59.876 --> 00:40:02.178 and you know really the problem is  
NOTE Confidence: 0.9351868033333333

00:40:02.178 --> 00:40:04.108 implementation and you know implementation.  
NOTE Confidence: 0.9351868033333333

00:40:04.110 --> 00:40:05.440 Science is now becoming a  
NOTE Confidence: 0.9351868033333333

00:40:05.440 --> 00:40:06.770 field in and of itself,  
NOTE Confidence: 0.9351868033333333

00:40:06.770 --> 00:40:10.170 and you know there's there's an  
NOTE Confidence: 0.9351868033333333

00:40:10.170 --> 00:40:12.354 amazing body of evidence for this  
NOTE Confidence: 0.9351868033333333

00:40:12.354 --> 00:40:13.846 and other major problems.  
NOTE Confidence: 0.9351868033333333

00:40:13.850 --> 00:40:14.675 We have perioperatively.  
NOTE Confidence: 0.9351868033333333

00:40:14.675 --> 00:40:16.325 And then there's really well thought  
NOTE Confidence: 0.9351868033333333

00:40:16.325 --> 00:40:17.881 out guidelines using state of the  
NOTE Confidence: 0.9351868033333333

00:40:17.881 --> 00:40:19.410 art methodology and it's all there,  
NOTE Confidence: 0.9351868033333333

00:40:19.410 --> 00:40:20.550 and it's in our journals and  
NOTE Confidence: 0.9351868033333333

00:40:20.550 --> 00:40:21.310 it's presented at meetings,  
NOTE Confidence: 0.9351868033333333

00:40:21.310 --> 00:40:23.452 but then actually getting people to do

NOTE Confidence: 0.935186803333333

00:40:23.452 --> 00:40:25.849 it as where the book kind of stops.

NOTE Confidence: 0.935186803333333

00:40:25.850 --> 00:40:28.338 So I think that you know future research.

NOTE Confidence: 0.935186803333333

00:40:28.340 --> 00:40:30.420 For OSA management and other

NOTE Confidence: 0.935186803333333

00:40:30.420 --> 00:40:31.668 perioperative problems really

NOTE Confidence: 0.935186803333333

00:40:31.668 --> 00:40:34.505 needs to be in how you know the

NOTE Confidence: 0.935186803333333

00:40:34.505 --> 00:40:35.797 implementation science of it.

NOTE Confidence: 0.935186803333333

00:40:35.800 --> 00:40:36.820 So you know, I,

NOTE Confidence: 0.935186803333333

00:40:36.820 --> 00:40:39.213 I don't have a great answer right now as

NOTE Confidence: 0.935186803333333

00:40:39.213 --> 00:40:41.500 to how we get people to actually do it.

NOTE Confidence: 0.935186803333333

00:40:41.500 --> 00:40:42.164 You know,

NOTE Confidence: 0.935186803333333

00:40:42.164 --> 00:40:45.309 I think that our ASC is tend to be

NOTE Confidence: 0.935186803333333

00:40:45.309 --> 00:40:47.607 very strict in their patient selection

NOTE Confidence: 0.935186803333333

00:40:47.607 --> 00:40:49.850 criteria and aren't taking on the

NOTE Confidence: 0.935186803333333

00:40:49.850 --> 00:40:52.208 patients at the most elevated risk

NOTE Confidence: 0.935186803333333

00:40:52.208 --> 00:40:54.220 for perioperative adverse events.

NOTE Confidence: 0.935186803333333

00:40:54.220 --> 00:40:55.557 And that's how they kind of get  
NOTE Confidence: 0.9351868033333333

00:40:55.557 --> 00:40:56.685 away with not having people  
NOTE Confidence: 0.9351868033333333

00:40:56.685 --> 00:40:57.994 bring their CPAP but in.  
NOTE Confidence: 0.9351868033333333

00:40:57.994 --> 00:40:58.810 In you know,  
NOTE Confidence: 0.9351868033333333

00:40:58.810 --> 00:41:00.616 hospital based ambulatory  
NOTE Confidence: 0.9351868033333333

00:41:00.616 --> 00:41:03.024 anesthesia or hospital based  
NOTE Confidence: 0.9351868033333333

00:41:03.030 --> 00:41:04.058 surgery with inpatient emission?  
NOTE Confidence: 0.9351868033333333

00:41:04.058 --> 00:41:05.086 You know we can't.  
NOTE Confidence: 0.9351868033333333

00:41:05.090 --> 00:41:06.170 We can't get away with that.  
NOTE Confidence: 0.9351868033333333

00:41:06.170 --> 00:41:07.784 We take care of the absolute  
NOTE Confidence: 0.9351868033333333

00:41:07.784 --> 00:41:09.193 sickest patients so we really  
NOTE Confidence: 0.9351868033333333

00:41:09.193 --> 00:41:10.598 do need to have protocols  
NOTE Confidence: 0.91353617

00:41:11.690 --> 00:41:12.620 and we need to have a  
NOTE Confidence: 0.8391763605555556

00:41:12.650 --> 00:41:15.530 you know a more robust way to have all of  
NOTE Confidence: 0.8391763605555556

00:41:15.610 --> 00:41:18.706 our you know major health systems like Yale.  
NOTE Confidence: 0.8391763605555556

00:41:18.710 --> 00:41:20.936 Create these protocols and then actually get



NOTE Confidence: 0.839176360555556  
00:41:20.936 --> 00:41:23.860 the on the ground clinicians to follow them.  
NOTE Confidence: 0.839176360555556  
00:41:23.860 --> 00:41:25.669 So I'd like I said I'd be happy to  
NOTE Confidence: 0.839176360555556  
00:41:25.669 --> 00:41:27.597 partner with anyone from Sleep Medicine  
NOTE Confidence: 0.839176360555556  
00:41:27.597 --> 00:41:29.272 who's particularly interested in this.  
NOTE Confidence: 0.839176360555556  
00:41:29.280 --> 00:41:30.700 Topic at Yale. You know,  
NOTE Confidence: 0.839176360555556  
00:41:30.700 --> 00:41:32.149 one way that we we did actually  
NOTE Confidence: 0.839176360555556  
00:41:32.149 --> 00:41:33.419 do this at Mount Sinai.  
NOTE Confidence: 0.839176360555556  
00:41:33.420 --> 00:41:34.396 During my time there,  
NOTE Confidence: 0.839176360555556  
00:41:34.396 --> 00:41:36.512 which is where I spent the first decade  
NOTE Confidence: 0.839176360555556  
00:41:36.512 --> 00:41:38.612 of my career is that our malpractice  
NOTE Confidence: 0.839176360555556  
00:41:38.612 --> 00:41:39.980 insurance company required it.  
NOTE Confidence: 0.839176360555556  
00:41:39.980 --> 00:41:42.276 So maybe about four or five years  
NOTE Confidence: 0.839176360555556  
00:41:42.276 --> 00:41:44.240 into my being in attending,  
NOTE Confidence: 0.839176360555556  
00:41:44.240 --> 00:41:47.152 they they required that we had a  
NOTE Confidence: 0.839176360555556  
00:41:47.152 --> 00:41:48.905 specialized pathway for patients  
NOTE Confidence: 0.839176360555556

00:41:48.905 --> 00:41:51.873 with BMI over 40 and with diagnosed  
NOTE Confidence: 0.839176360555556

00:41:51.873 --> 00:41:54.134 or suspected OSA that included  
NOTE Confidence: 0.839176360555556

00:41:54.134 --> 00:41:56.810 observation in the Pacquiao and then  
NOTE Confidence: 0.839176360555556

00:41:56.810 --> 00:41:58.320 prior to discharge from the pacu,  
NOTE Confidence: 0.839176360555556

00:41:58.320 --> 00:41:59.970 whether it was home or two.  
NOTE Confidence: 0.839176360555556

00:41:59.970 --> 00:42:01.805 An unmonitored bed and anesthesiology  
NOTE Confidence: 0.839176360555556

00:42:01.805 --> 00:42:04.496 attending had to write an order set  
NOTE Confidence: 0.839176360555556

00:42:04.496 --> 00:42:06.088 about that patient disposition,  
NOTE Confidence: 0.839176360555556

00:42:06.090 --> 00:42:06.990 including whether it was safe  
NOTE Confidence: 0.839176360555556

00:42:06.990 --> 00:42:07.890 for them to go home.  
NOTE Confidence: 0.839176360555556

00:42:07.890 --> 00:42:08.922 Weather was safe for them to  
NOTE Confidence: 0.839176360555556

00:42:08.922 --> 00:42:09.790 go to an unmonitored bed,  
NOTE Confidence: 0.839176360555556

00:42:09.790 --> 00:42:11.570 or they needed prolonged respiratory  
NOTE Confidence: 0.839176360555556

00:42:11.570 --> 00:42:13.350 monitoring or oxygen saturation monitoring,  
NOTE Confidence: 0.839176360555556

00:42:13.350 --> 00:42:15.432 and whether they needed a referral  
NOTE Confidence: 0.839176360555556

00:42:15.432 --> 00:42:17.162 for respiratory therapy for positive

NOTE Confidence: 0.839176360555556

00:42:17.162 --> 00:42:19.450 airway pressure so it it can be done.

NOTE Confidence: 0.839176360555556

00:42:19.450 --> 00:42:21.065 That was outside pressure that

NOTE Confidence: 0.839176360555556

00:42:21.065 --> 00:42:23.129 was applied in us to do it.

NOTE Confidence: 0.839176360555556

00:42:23.130 --> 00:42:25.623 And so, you know, that's one route to go,

NOTE Confidence: 0.839176360555556

00:42:25.630 --> 00:42:26.080 right,

NOTE Confidence: 0.734406252307692

00:42:26.110 --> 00:42:27.580 right? Yeah, I can definitely see that

NOTE Confidence: 0.734406252307692

00:42:27.580 --> 00:42:28.903 when there's when there's external

NOTE Confidence: 0.734406252307692

00:42:28.903 --> 00:42:30.360 pressure, things have a way of.

NOTE Confidence: 0.734406252307692

00:42:30.360 --> 00:42:32.229 We get done a little bit more.

NOTE Confidence: 0.734406252307692

00:42:32.230 --> 00:42:33.930 Doctor Krieger has a question. Go ahead

NOTE Confidence: 0.8528631551

00:42:33.960 --> 00:42:35.750 yeah, so I became very

NOTE Confidence: 0.8528631551

00:42:35.750 --> 00:42:37.540 interested in in this topic,

NOTE Confidence: 0.8528631551

00:42:37.540 --> 00:42:40.557 about 15 maybe even more years ago

NOTE Confidence: 0.8528631551

00:42:40.557 --> 00:42:43.267 when there was a major hospital

NOTE Confidence: 0.8528631551

00:42:43.267 --> 00:42:45.907 whose name I will not mention

NOTE Confidence: 0.8528631551

00:42:45.907 --> 00:42:48.907 was sued because a patient died.  
NOTE Confidence: 0.8528631551

00:42:48.910 --> 00:42:51.054 Immediately post-op who was  
NOTE Confidence: 0.8528631551

00:42:51.054 --> 00:42:54.270 known to have severe sleep apnea,  
NOTE Confidence: 0.8528631551

00:42:54.270 --> 00:42:58.295 and the hospital ended up settling for  
NOTE Confidence: 0.8528631551

00:42:58.295 --> 00:43:00.758 \$40 million, and that hospital said  
NOTE Confidence: 0.8528631551

00:43:00.758 --> 00:43:03.170 this is never going to happen again.  
NOTE Confidence: 0.8528631551

00:43:03.170 --> 00:43:06.194 Every patient is going to be  
NOTE Confidence: 0.8528631551

00:43:06.194 --> 00:43:08.590 screened pre-op pre every op.  
NOTE Confidence: 0.8528631551

00:43:08.590 --> 00:43:11.180 And that's what it takes and sometimes.  
NOTE Confidence: 0.835782736666667

00:43:13.540 --> 00:43:15.728 Absolutely, and we we.  
NOTE Confidence: 0.835782736666667

00:43:15.728 --> 00:43:18.463 We'd rather be proactive and  
NOTE Confidence: 0.835782736666667

00:43:18.463 --> 00:43:20.946 find our our you know, our.  
NOTE Confidence: 0.835782736666667

00:43:20.946 --> 00:43:22.856 Danger Points prior to having  
NOTE Confidence: 0.835782736666667

00:43:22.856 --> 00:43:24.948 a horrible outcome like that,  
NOTE Confidence: 0.835782736666667

00:43:24.950 --> 00:43:26.318 but it's I guess you know it's hard  
NOTE Confidence: 0.835782736666667

00:43:26.318 --> 00:43:28.107 to to find the motivation and the

NOTE Confidence: 0.835782736666667  
00:43:28.107 --> 00:43:29.507 organization until it actually happens.  
NOTE Confidence: 0.64337516  
00:43:42.810 --> 00:43:43.978 Janet, I think you're muted.  
NOTE Confidence: 0.867987815  
00:43:45.700 --> 00:43:46.628 I was just going to say, Christine,  
NOTE Confidence: 0.867987815  
00:43:46.628 --> 00:43:48.030 you could unmute yourself, thanks.  
NOTE Confidence: 0.903236508  
00:43:49.900 --> 00:43:51.830 I was reading your lips.  
NOTE Confidence: 0.903236508  
00:43:51.830 --> 00:43:54.120 Hi Doctor \*\*\*\*\* I'm Christine one.  
NOTE Confidence: 0.903236508  
00:43:54.120 --> 00:43:56.040 I'm actually very active and sassaman.  
NOTE Confidence: 0.903236508  
00:43:56.040 --> 00:43:57.867 I think you and I are probably on the  
NOTE Confidence: 0.462003001  
00:43:57.880 --> 00:43:59.510 same committee. It's or I.  
NOTE Confidence: 0.462003001  
00:43:59.510 --> 00:44:01.197 I definitely know you from the meetings.  
NOTE Confidence: 0.462003001  
00:44:01.200 --> 00:44:02.088 Christine, thanks so much.  
NOTE Confidence: 0.921616003  
00:44:03.460 --> 00:44:05.497 Yeah, no. I'm I'm so grateful that  
NOTE Confidence: 0.921616003  
00:44:05.497 --> 00:44:07.747 your this is your area of interest  
NOTE Confidence: 0.921616003  
00:44:07.747 --> 00:44:09.715 and and you're working on this.  
NOTE Confidence: 0.921616003  
00:44:09.720 --> 00:44:12.373 I think prior you might have heard  
NOTE Confidence: 0.921616003

00:44:12.373 --> 00:44:16.039 prior to coming here there was a series  
NOTE Confidence: 0.921616003

00:44:16.039 --> 00:44:17.995 of adverse events perioperatively.  
NOTE Confidence: 0.921616003

00:44:18.000 --> 00:44:20.640 Related to what was thought to be untreated,  
NOTE Confidence: 0.921616003

00:44:20.640 --> 00:44:21.804 unrecognized sleep disorder.  
NOTE Confidence: 0.921616003

00:44:21.804 --> 00:44:23.356 Breathing in these patients  
NOTE Confidence: 0.921616003

00:44:23.356 --> 00:44:25.480 who were not being monitored,  
NOTE Confidence: 0.921616003

00:44:25.480 --> 00:44:27.600 and I believe there was,  
NOTE Confidence: 0.921616003

00:44:27.600 --> 00:44:29.200 like you said it was.  
NOTE Confidence: 0.921616003

00:44:29.200 --> 00:44:30.320 It was these adverse,  
NOTE Confidence: 0.921616003

00:44:30.320 --> 00:44:31.700 even though they weren't frequent.  
NOTE Confidence: 0.921616003

00:44:31.700 --> 00:44:33.560 They were unfortunate and it was  
NOTE Confidence: 0.921616003

00:44:33.560 --> 00:44:35.144 these adverse events that kind  
NOTE Confidence: 0.921616003

00:44:35.144 --> 00:44:36.296 of drove the hospital.  
NOTE Confidence: 0.921616003

00:44:36.300 --> 00:44:37.460 Actually, the system was system  
NOTE Confidence: 0.921616003

00:44:37.460 --> 00:44:40.148 wide to to really mobilize and and  
NOTE Confidence: 0.921616003

00:44:40.148 --> 00:44:43.060 and form this huge committee there.

NOTE Confidence: 0.921616003

00:44:43.060 --> 00:44:44.854 I think there are like over

NOTE Confidence: 0.921616003

00:44:44.854 --> 00:44:46.420 20 nurses involved in this.

NOTE Confidence: 0.921616003

00:44:46.420 --> 00:44:49.532 To get a perioperative.

NOTE Confidence: 0.921616003

00:44:49.532 --> 00:44:50.310 Protocol,

NOTE Confidence: 0.921616003

00:44:50.310 --> 00:44:54.376 but unfortunately it never took off,

NOTE Confidence: 0.921616003

00:44:54.376 --> 00:44:56.170 so it would be really great,

NOTE Confidence: 0.921616003

00:44:56.170 --> 00:44:58.242 and it sounds like you would be just

NOTE Confidence: 0.921616003

00:44:58.242 --> 00:45:00.403 the right person to jumpstart jumpstart

NOTE Confidence: 0.921616003

00:45:00.403 --> 00:45:02.378 this 'cause again very important,

NOTE Confidence: 0.921616003

00:45:02.380 --> 00:45:03.644 and again that frequent,

NOTE Confidence: 0.921616003

00:45:03.644 --> 00:45:05.224 but very tragic cases that

NOTE Confidence: 0.921616003

00:45:05.224 --> 00:45:06.948 that could have been avoided.

NOTE Confidence: 0.921616003

00:45:06.950 --> 00:45:09.146 I think I think there was a a

NOTE Confidence: 0.921616003

00:45:09.146 --> 00:45:11.534 protocol with they'd still the stop

NOTE Confidence: 0.921616003

00:45:11.534 --> 00:45:14.330 bang and the and the epic right.

NOTE Confidence: 0.921616003

00:45:14.330 --> 00:45:15.084 Epic custom.  
NOTE Confidence: 0.921616003

00:45:15.084 --> 00:45:17.346 The nurse nurses that were protocol  
NOTE Confidence: 0.921616003

00:45:17.346 --> 00:45:18.960 protocol eisd to to try to.  
NOTE Confidence: 0.921616003

00:45:18.960 --> 00:45:20.238 Do that in the pack you,  
NOTE Confidence: 0.921616003

00:45:20.240 --> 00:45:21.008 I think,  
NOTE Confidence: 0.921616003

00:45:21.008 --> 00:45:23.312 and then they were piloting something  
NOTE Confidence: 0.921616003

00:45:23.312 --> 00:45:25.996 up in in the ortho unit at SRC.  
NOTE Confidence: 0.921616003

00:45:26.000 --> 00:45:28.625 That was the first sort of pilot,  
NOTE Confidence: 0.921616003

00:45:28.630 --> 00:45:30.796 but it kind of lost momentum.  
NOTE Confidence: 0.921616003

00:45:30.800 --> 00:45:34.274 So I mean eager to see it launch again,  
NOTE Confidence: 0.921616003

00:45:34.280 --> 00:45:34.550 viewed  
NOTE Confidence: 0.84100152

00:45:34.560 --> 00:45:37.644 the pathway from SRC and it's  
NOTE Confidence: 0.84100152

00:45:37.644 --> 00:45:39.700 excellent and clearly incredibly  
NOTE Confidence: 0.84100152

00:45:39.791 --> 00:45:42.484 well thought out and I think has  
NOTE Confidence: 0.84100152

00:45:42.484 --> 00:45:44.530 the potential to be used systemwide.  
NOTE Confidence: 0.84100152

00:45:44.530 --> 00:45:46.306 It would be a big lift like everything



NOTE Confidence: 0.84100152  
00:45:46.306 --> 00:45:48.057 is that we want to do system wide.  
NOTE Confidence: 0.84100152  
00:45:48.060 --> 00:45:49.950 My guess is that it lost steam.  
NOTE Confidence: 0.84100152  
00:45:49.950 --> 00:45:51.150 After having tremendous thought  
NOTE Confidence: 0.84100152  
00:45:51.150 --> 00:45:52.950 being put into it because of  
NOTE Confidence: 0.84100152  
00:45:53.007 --> 00:45:54.407 the timing and the pandemic,  
NOTE Confidence: 0.84100152  
00:45:54.410 --> 00:45:56.055 but I think it's definitely time to  
NOTE Confidence: 0.84100152  
00:45:56.055 --> 00:45:57.717 to revisit it as a health system.  
NOTE Confidence: 0.867352995  
00:45:58.640 --> 00:45:59.519 Terrific, thank you.  
NOTE Confidence: 0.867352995  
00:45:59.519 --> 00:46:01.277 Well there is a question in  
NOTE Confidence: 0.867352995  
00:46:01.277 --> 00:46:03.210 the chat about the risk for if  
NOTE Confidence: 0.867352995  
00:46:03.210 --> 00:46:05.040 you could comment on the risk  
NOTE Confidence: 0.867352995  
00:46:05.040 --> 00:46:07.170 for OSA in patients who receive  
NOTE Confidence: 0.867352995  
00:46:07.170 --> 00:46:09.125 neuromuscular blockade but are in  
NOTE Confidence: 0.867352995  
00:46:09.125 --> 00:46:10.785 completely reversed by excavation  
NOTE Confidence: 0.867352995  
00:46:10.790 --> 00:46:12.257 train of four can be 4 out of four,  
NOTE Confidence: 0.867352995

00:46:12.260 --> 00:46:13.492 but fade not recognized.  
NOTE Confidence: 0.867352995

00:46:13.492 --> 00:46:15.340 You want to comment on that?  
NOTE Confidence: 0.791275917538461

00:46:15.510 --> 00:46:16.258 Yeah, absolutely.  
NOTE Confidence: 0.791275917538461

00:46:16.258 --> 00:46:18.502 And in the intra operative guidelines  
NOTE Confidence: 0.791275917538461

00:46:18.502 --> 00:46:20.927 from SAS and they do talk about  
NOTE Confidence: 0.791275917538461

00:46:20.927 --> 00:46:22.537 neuromuscular blockade and it is  
NOTE Confidence: 0.791275917538461

00:46:22.597 --> 00:46:24.937 strongly recommended that dose you know,  
NOTE Confidence: 0.791275917538461

00:46:24.940 --> 00:46:27.452 be dosed judiciously that train train of four  
NOTE Confidence: 0.791275917538461

00:46:27.452 --> 00:46:29.580 monitoring be utilized to determine dose.  
NOTE Confidence: 0.791275917538461

00:46:29.580 --> 00:46:33.150 And also to determine reversal dosing and  
NOTE Confidence: 0.791275917538461

00:46:33.150 --> 00:46:36.730 adequate return of neuromuscular function.  
NOTE Confidence: 0.791275917538461

00:46:36.730 --> 00:46:39.324 So it's always important in every patient,  
NOTE Confidence: 0.791275917538461

00:46:39.324 --> 00:46:40.287 but particularly important  
NOTE Confidence: 0.791275917538461

00:46:40.287 --> 00:46:41.480 in patients with OSA.  
NOTE Confidence: 0.791275917538461

00:46:41.480 --> 00:46:43.900 There's so far insufficient  
NOTE Confidence: 0.791275917538461

00:46:43.900 --> 00:46:46.320 evidence that using sugammadex,

NOTE Confidence: 0.791275917538461  
00:46:46.320 --> 00:46:49.656 which is a cyclodextrin to reverse  
NOTE Confidence: 0.791275917538461  
00:46:49.656 --> 00:46:51.324 nondepolarizing neuromuscular blockade,  
NOTE Confidence: 0.791275917538461  
00:46:51.330 --> 00:46:54.109 is not yet shown to be superior  
NOTE Confidence: 0.791275917538461  
00:46:54.109 --> 00:46:56.430 to the classic neostigmine.  
NOTE Confidence: 0.791275917538461  
00:46:56.430 --> 00:47:00.250 However, in our guidelines for.  
NOTE Confidence: 0.791275917538461  
00:47:00.250 --> 00:47:02.160 Reversal were encouraged to use  
NOTE Confidence: 0.791275917538461  
00:47:02.160 --> 00:47:05.129 sugammadex in the in place of neostigmine.  
NOTE Confidence: 0.791275917538461  
00:47:05.130 --> 00:47:07.674 For patients with OSA as well  
NOTE Confidence: 0.791275917538461  
00:47:07.674 --> 00:47:10.202 as another uncommon list of of  
NOTE Confidence: 0.791275917538461  
00:47:10.202 --> 00:47:12.182 problems that could put them at  
NOTE Confidence: 0.791275917538461  
00:47:12.182 --> 00:47:13.106 increased risk postoperatively.  
NOTE Confidence: 0.791275917538461  
00:47:13.110 --> 00:47:13.578 So yeah,  
NOTE Confidence: 0.791275917538461  
00:47:13.578 --> 00:47:15.216 we you know the gold standard would  
NOTE Confidence: 0.791275917538461  
00:47:15.216 --> 00:47:16.741 be to use quantitative monitoring  
NOTE Confidence: 0.791275917538461  
00:47:16.741 --> 00:47:18.971 and make sure that our patients are  
NOTE Confidence: 0.791275917538461

00:47:18.971 --> 00:47:20.915 fully reversed for all patients in  
NOTE Confidence: 0.791275917538461

00:47:20.915 --> 00:47:22.320 particularly patients with OSA.  
NOTE Confidence: 0.8550110395

00:47:23.100 --> 00:47:25.074 Thank you. There is also a question  
NOTE Confidence: 0.8550110395

00:47:25.074 --> 00:47:27.395 if you have any comments about  
NOTE Confidence: 0.8550110395

00:47:27.395 --> 00:47:28.802 relatively asymptomatic opioid  
NOTE Confidence: 0.8550110395

00:47:28.802 --> 00:47:30.678 induced central sleep apnea.  
NOTE Confidence: 0.8550110395

00:47:30.680 --> 00:47:33.030 How does that impact anesthesia  
NOTE Confidence: 0.8550110395

00:47:33.030 --> 00:47:34.240 management say it? One more time?  
NOTE Confidence: 0.8550110395

00:47:34.240 --> 00:47:36.085 Sorry, relatively asymptomatic  
NOTE Confidence: 0.8550110395

00:47:36.085 --> 00:47:39.160 opioid induced central sleep apnea,  
NOTE Confidence: 0.8550110395

00:47:39.160 --> 00:47:40.498 so we commonly see this in  
NOTE Confidence: 0.8550110395

00:47:40.498 --> 00:47:41.910 patients on high dose methadone.  
NOTE Confidence: 0.8550110395

00:47:41.910 --> 00:47:42.759 I don't know.  
NOTE Confidence: 0.8550110395

00:47:42.759 --> 00:47:44.457 The question refers to patients with  
NOTE Confidence: 0.8550110395

00:47:44.457 --> 00:47:46.429 method with that kind of scenario who  
NOTE Confidence: 0.8550110395

00:47:46.429 --> 00:47:47.895 then gets surgery versus somebody

NOTE Confidence: 0.8550110395

00:47:47.895 --> 00:47:49.505 who has substantial apneas on?

NOTE Confidence: 0.908596239230769

00:47:49.520 --> 00:47:51.352 Yes yeah. So I think this speaks to

NOTE Confidence: 0.908596239230769

00:47:51.352 --> 00:47:53.410 the fact that there is, you know,

NOTE Confidence: 0.908596239230769

00:47:53.410 --> 00:47:55.435 multiple phenotypes of sleep apnea,

NOTE Confidence: 0.908596239230769

00:47:55.440 --> 00:47:57.650 obstructive and central and so

NOTE Confidence: 0.908596239230769

00:47:57.650 --> 00:48:00.990 teasing out which of our patients are.

NOTE Confidence: 0.908596239230769

00:48:00.990 --> 00:48:03.270 More sensitive to opioids than others,

NOTE Confidence: 0.908596239230769

00:48:03.270 --> 00:48:05.460 or perhaps have have pain.

NOTE Confidence: 0.908596239230769

00:48:05.460 --> 00:48:07.485 Sedation mismatches is where it

NOTE Confidence: 0.908596239230769

00:48:07.485 --> 00:48:09.700 becomes really really tricky and so

NOTE Confidence: 0.908596239230769

00:48:09.700 --> 00:48:11.765 you know that's the type of patient

NOTE Confidence: 0.908596239230769

00:48:11.765 --> 00:48:13.922 who probably would benefit from

NOTE Confidence: 0.908596239230769

00:48:13.922 --> 00:48:16.167 a period of prolonged increased

NOTE Confidence: 0.908596239230769

00:48:16.167 --> 00:48:18.587 monitoring in the setting of

NOTE Confidence: 0.908596239230769

00:48:18.587 --> 00:48:20.015 receiving opioids postoperatively.

NOTE Confidence: 0.82993051

00:48:21.820 --> 00:48:22.736 What are your thoughts?  
NOTE Confidence: 0.82993051

00:48:22.736 --> 00:48:24.750 You know I was interested in that at the  
NOTE Confidence: 0.82993051

00:48:24.750 --> 00:48:26.946 very end you you brought up, you know.  
NOTE Confidence: 0.82993051

00:48:26.946 --> 00:48:28.978 Oftentimes patients are identified,  
NOTE Confidence: 0.82993051

00:48:28.980 --> 00:48:30.672 you know, in that sort of  
NOTE Confidence: 0.82993051

00:48:30.672 --> 00:48:31.517 perioperative setting, right?  
NOTE Confidence: 0.82993051

00:48:31.517 --> 00:48:33.456 Even if it's just something they have  
NOTE Confidence: 0.82993051

00:48:33.456 --> 00:48:35.317 an endoscopy and they get anesthesia or  
NOTE Confidence: 0.82993051

00:48:35.317 --> 00:48:37.300 they in hospital and have anesthesia.  
NOTE Confidence: 0.82993051

00:48:37.300 --> 00:48:39.050 And then a lot of stuff happens  
NOTE Confidence: 0.82993051

00:48:39.050 --> 00:48:40.642 and the conversion of that to  
NOTE Confidence: 0.82993051

00:48:40.642 --> 00:48:41.698 getting to Sleep Medicine?  
NOTE Confidence: 0.82993051

00:48:41.700 --> 00:48:43.436 Sometimes it shows up in the discharge  
NOTE Confidence: 0.82993051

00:48:43.436 --> 00:48:44.818 summary and somebody down the road.  
NOTE Confidence: 0.82993051

00:48:44.820 --> 00:48:46.557 How do you think we can do better there,  
NOTE Confidence: 0.82993051

00:48:46.560 --> 00:48:48.060 you know, in the immediate setting,

NOTE Confidence: 0.82993051

00:48:48.060 --> 00:48:49.868 it seems like that would be the time

NOTE Confidence: 0.82993051

00:48:49.868 --> 00:48:51.710 and place to to put in that referral.

NOTE Confidence: 0.82993051

00:48:51.710 --> 00:48:52.661 Thoughts on that?

NOTE Confidence: 0.82993051

00:48:52.661 --> 00:48:52.978 That's

NOTE Confidence: 0.934400238333333

00:48:52.990 --> 00:48:53.694 a really good idea.

NOTE Confidence: 0.934400238333333

00:48:53.694 --> 00:48:55.305 I mean, I think engaging our surgical

NOTE Confidence: 0.934400238333333

00:48:55.305 --> 00:48:56.730 colleagues is certainly part of it,

NOTE Confidence: 0.934400238333333

00:48:56.730 --> 00:48:58.500 because they're the ones who

NOTE Confidence: 0.934400238333333

00:48:58.500 --> 00:48:59.916 write the discharge instructions

NOTE Confidence: 0.934400238333333

00:48:59.916 --> 00:49:01.687 and the discharge summary is,

NOTE Confidence: 0.934400238333333

00:49:01.690 --> 00:49:03.406 and the patients follow up with.

NOTE Confidence: 0.934400238333333

00:49:03.410 --> 00:49:05.245 But as anesthesia providers were

NOTE Confidence: 0.934400238333333

00:49:05.245 --> 00:49:07.539 often the ones who are doing

NOTE Confidence: 0.934400238333333

00:49:07.539 --> 00:49:09.087 the preoperative screening or

NOTE Confidence: 0.934400238333333

00:49:09.087 --> 00:49:11.629 who notice intra op or post op,

NOTE Confidence: 0.934400238333333

00:49:11.630 --> 00:49:12.970 you know signs of obstruction,  
NOTE Confidence: 0.9344002383333333

00:49:12.970 --> 00:49:14.272 so it would be nice if there  
NOTE Confidence: 0.9344002383333333

00:49:14.272 --> 00:49:16.160 was a way for us to communicate  
NOTE Confidence: 0.9344002383333333

00:49:16.160 --> 00:49:17.755 directly with our Sleep Medicine  
NOTE Confidence: 0.9344002383333333

00:49:17.755 --> 00:49:19.347 colleagues to initiate the referral.  
NOTE Confidence: 0.9344002383333333

00:49:19.350 --> 00:49:21.800 I do speak to patients.  
NOTE Confidence: 0.9344002383333333

00:49:21.800 --> 00:49:23.390 Come in the preoperative period and  
NOTE Confidence: 0.9344002383333333

00:49:23.390 --> 00:49:24.771 their family members when they've  
NOTE Confidence: 0.9344002383333333

00:49:24.771 --> 00:49:26.121 screened positive based on stopping  
NOTE Confidence: 0.9344002383333333

00:49:26.121 --> 00:49:28.289 score that this is something you obviously.  
NOTE Confidence: 0.9344002383333333

00:49:28.290 --> 00:49:29.725 Right now we're going to focus on  
NOTE Confidence: 0.9344002383333333

00:49:29.725 --> 00:49:30.670 getting safely through surgery,  
NOTE Confidence: 0.9344002383333333

00:49:30.670 --> 00:49:32.190 but you should, you know,  
NOTE Confidence: 0.9344002383333333

00:49:32.190 --> 00:49:34.230 speak to your primary care provider.  
NOTE Confidence: 0.9344002383333333

00:49:34.230 --> 00:49:35.754 Once you've recovered to get a  
NOTE Confidence: 0.9344002383333333

00:49:35.754 --> 00:49:37.246 referral to evaluate to see if



NOTE Confidence: 0.934400238333333  
00:49:37.246 --> 00:49:38.518 you do have sleep apnea because  
NOTE Confidence: 0.934400238333333  
00:49:38.518 --> 00:49:40.366 of all of the downstream health  
NOTE Confidence: 0.934400238333333  
00:49:40.366 --> 00:49:41.742 consequences of having undiagnosed  
NOTE Confidence: 0.934400238333333  
00:49:41.742 --> 00:49:43.024 and untreated sleep apnea.  
NOTE Confidence: 0.934400238333333  
00:49:43.024 --> 00:49:44.806 Just like all do something similar  
NOTE Confidence: 0.934400238333333  
00:49:44.806 --> 00:49:46.275 for smoking cessation and try to  
NOTE Confidence: 0.934400238333333  
00:49:46.275 --> 00:49:48.230 use it as my kind of moment to  
NOTE Confidence: 0.934400238333333  
00:49:48.230 --> 00:49:49.890 impact the patient's overall health  
NOTE Confidence: 0.934400238333333  
00:49:49.890 --> 00:49:51.592 because patients are much more.  
NOTE Confidence: 0.934400238333333  
00:49:51.592 --> 00:49:53.347 Hyper aware of their health  
NOTE Confidence: 0.934400238333333  
00:49:53.347 --> 00:49:54.880 in the perioperative period,  
NOTE Confidence: 0.934400238333333  
00:49:54.880 --> 00:49:56.000 they're thinking about their health,  
NOTE Confidence: 0.934400238333333  
00:49:56.000 --> 00:49:58.540 so I think you know the patient.  
NOTE Confidence: 0.934400238333333  
00:49:58.540 --> 00:49:58.920 But also,  
NOTE Confidence: 0.934400238333333  
00:49:58.920 --> 00:50:00.440 if a family member is there with them,  
NOTE Confidence: 0.934400238333333

00:50:00.440 --> 00:50:02.246 they may be able to better  
NOTE Confidence: 0.9344002383333333

00:50:02.246 --> 00:50:03.149 absorb that message.  
NOTE Confidence: 0.9344002383333333

00:50:03.150 --> 00:50:05.026 So I I do communicate with patients,  
NOTE Confidence: 0.9344002383333333

00:50:05.030 --> 00:50:06.367 but it might be nice when patients  
NOTE Confidence: 0.9344002383333333

00:50:06.367 --> 00:50:07.295 and families are overwhelmed  
NOTE Confidence: 0.9344002383333333

00:50:07.295 --> 00:50:08.527 in the perioperative periods.  
NOTE Confidence: 0.9344002383333333

00:50:08.530 --> 00:50:10.305 Be able to communicate directly  
NOTE Confidence: 0.9344002383333333

00:50:10.305 --> 00:50:12.080 amongst each other for referral,  
NOTE Confidence: 0.9344002383333333

00:50:12.080 --> 00:50:12.490 right?  
NOTE Confidence: 0.9059085983333333

00:50:12.520 --> 00:50:13.996 Right? Yeah, we it's not uncommon.  
NOTE Confidence: 0.9059085983333333

00:50:14.000 --> 00:50:16.024 We get all my GI doctor or the  
NOTE Confidence: 0.9059085983333333

00:50:16.024 --> 00:50:17.739 nurse who was there told me,  
NOTE Confidence: 0.9059085983333333

00:50:17.740 --> 00:50:18.778 you know, but we see them.  
NOTE Confidence: 0.9059085983333333

00:50:18.780 --> 00:50:20.173 You know it's like 8 months later  
NOTE Confidence: 0.9059085983333333

00:50:20.173 --> 00:50:21.420 that this happened or you you know?  
NOTE Confidence: 0.9059085983333333

00:50:21.420 --> 00:50:22.300 Oh yeah. By the way,

NOTE Confidence: 0.905908598333333  
00:50:22.300 --> 00:50:24.496 they did say that and it somehow falls away.  
NOTE Confidence: 0.905908598333333  
00:50:24.500 --> 00:50:26.440 So yeah, there's another question  
NOTE Confidence: 0.905908598333333  
00:50:26.440 --> 00:50:28.355 in the chat about suggestions  
NOTE Confidence: 0.905908598333333  
00:50:28.355 --> 00:50:29.420 for procedural sedation.  
NOTE Confidence: 0.905908598333333  
00:50:29.420 --> 00:50:31.195 I presumably this is for  
NOTE Confidence: 0.905908598333333  
00:50:31.195 --> 00:50:32.549 things like bronchoscopy.  
NOTE Confidence: 0.905908598333333  
00:50:32.550 --> 00:50:33.531 It's like procedural  
NOTE Confidence: 0.905908598333333  
00:50:33.531 --> 00:50:34.839 sedation and OSA patients.  
NOTE Confidence: 0.905908598333333  
00:50:34.840 --> 00:50:36.200 What about DXM tomatine?  
NOTE Confidence: 0.905908598333333  
00:50:36.200 --> 00:50:38.240 Is it better than standard meds?  
NOTE Confidence: 0.905908598333333  
00:50:38.240 --> 00:50:40.228 What are your thoughts?  
NOTE Confidence: 0.905908598333333  
00:50:40.230 --> 00:50:40.600 So he's  
NOTE Confidence: 0.7648094  
00:50:40.610 --> 00:50:43.134 not a great level.  
NOTE Confidence: 0.7648094  
00:50:43.134 --> 00:50:45.054 There's not a great literature  
NOTE Confidence: 0.7648094  
00:50:45.054 --> 00:50:48.156 to guide us here, but there are  
NOTE Confidence: 0.7648094

00:50:48.156 --> 00:50:50.766 recommendations based on expert opinion,  
NOTE Confidence: 0.7648094

00:50:50.770 --> 00:50:52.814 and we do know that propofol sedation  
NOTE Confidence: 0.7648094

00:50:52.814 --> 00:50:55.364 in the you know absence of a controlled  
NOTE Confidence: 0.7648094

00:50:55.364 --> 00:50:58.199 airway is tricky in this patient population,  
NOTE Confidence: 0.7648094

00:50:58.200 --> 00:51:01.240 and the dex medata mean may be easier.  
NOTE Confidence: 0.7648094

00:51:01.240 --> 00:51:04.268 Probably the the most.  
NOTE Confidence: 0.7648094

00:51:04.270 --> 00:51:05.710 Concerning is when you're starting  
NOTE Confidence: 0.7648094

00:51:05.710 --> 00:51:06.862 to combine sedative agents,  
NOTE Confidence: 0.7648094

00:51:06.870 --> 00:51:09.154 so benzodiazepine's opioids, propofol,  
NOTE Confidence: 0.7648094

00:51:09.154 --> 00:51:11.438 even Dexmedetomidine Academy and  
NOTE Confidence: 0.7648094

00:51:11.438 --> 00:51:14.068 all these things in isolation.  
NOTE Confidence: 0.7648094

00:51:14.070 --> 00:51:17.502 RR Titratable and inexperienced  
NOTE Confidence: 0.7648094

00:51:17.502 --> 00:51:19.630 hands you know are probably possible  
NOTE Confidence: 0.7648094

00:51:19.630 --> 00:51:21.140 to use in patients with OSA,  
NOTE Confidence: 0.7648094

00:51:21.140 --> 00:51:21.808 but propofol,  
NOTE Confidence: 0.7648094

00:51:21.808 --> 00:51:23.812 probably with the most caution and

NOTE Confidence: 0.7648094

00:51:23.812 --> 00:51:25.906 anytime you're mixing sedative agents

NOTE Confidence: 0.7648094

00:51:25.906 --> 00:51:27.726 they'll they'll work synergistically.

NOTE Confidence: 0.7648094

00:51:27.730 --> 00:51:29.207 And then you can get into trouble.

NOTE Confidence: 0.7648094

00:51:29.210 --> 00:51:30.179 And you know,

NOTE Confidence: 0.7648094

00:51:30.179 --> 00:51:32.117 I do drug induced sleep endoscopy

NOTE Confidence: 0.7648094

00:51:32.117 --> 00:51:34.600 all the time with my ENT colleagues.

NOTE Confidence: 0.7648094

00:51:34.600 --> 00:51:36.675 Where we use these medications

NOTE Confidence: 0.7648094

00:51:36.675 --> 00:51:38.335 specifically to induce obstruction

NOTE Confidence: 0.7648094

00:51:38.335 --> 00:51:40.619 to figure out the best surgical

NOTE Confidence: 0.7648094

00:51:40.619 --> 00:51:42.059 plan for for management.

NOTE Confidence: 0.7648094

00:51:42.060 --> 00:51:43.660 So I'm watching it happen.

NOTE Confidence: 0.7648094

00:51:43.660 --> 00:51:44.680 You know,

NOTE Confidence: 0.7648094

00:51:44.680 --> 00:51:46.720 with their flexible scopes,

NOTE Confidence: 0.7648094

00:51:46.720 --> 00:51:48.664 so you know it's it obviously

NOTE Confidence: 0.7648094

00:51:48.664 --> 00:51:50.890 happens with all of these agents.

NOTE Confidence: 0.8951181925

00:51:51.880 --> 00:51:53.096 Thank you. Excellent. Alright,  
NOTE Confidence: 0.8951181925

00:51:53.096 --> 00:51:55.470 so I'm not seeing much in the chat.  
NOTE Confidence: 0.8951181925

00:51:55.470 --> 00:51:57.080 I'm going to give people if anyone  
NOTE Confidence: 0.8951181925

00:51:57.080 --> 00:51:58.494 in the audience would like to  
NOTE Confidence: 0.8951181925

00:51:58.494 --> 00:52:00.069 either type anything or now is your  
NOTE Confidence: 0.8951181925

00:52:00.122 --> 00:52:01.550 opportunity to unmute yourself,  
NOTE Confidence: 0.8951181925

00:52:01.550 --> 00:52:04.540 ask a question. See.  
NOTE Confidence: 0.88074425125

00:52:07.640 --> 00:52:09.424 Alright, well really pretty much at the end.  
NOTE Confidence: 0.88074425125

00:52:09.430 --> 00:52:10.514 Anyway, listen, thank you.  
NOTE Confidence: 0.88074425125

00:52:10.514 --> 00:52:12.300 Doctor \*\*\*\*\* that was really wonderful.  
NOTE Confidence: 0.88074425125

00:52:12.300 --> 00:52:13.540 Really engaging presentation and  
NOTE Confidence: 0.88074425125

00:52:13.540 --> 00:52:15.178 I think we all learned a lot.  
NOTE Confidence: 0.88074425125

00:52:15.180 --> 00:52:15.988 Thank you so much.  
NOTE Confidence: 0.93292296875

00:52:16.400 --> 00:52:17.348 Thank you so much again for  
NOTE Confidence: 0.93292296875

00:52:17.348 --> 00:52:18.230 having me. It was a pleasure.  
NOTE Confidence: 0.870816851666667

00:52:18.620 --> 00:52:20.828 Bye bye thanks everyone for joining.