

WEBVTT

NOTE duration: "00:55:24.400"

NOTE Confidence: 0.5678451

00:00:00.160 --> 00:00:00.659 Started?

NOTE Confidence: 0.99971825

00:00:01.520 --> 00:00:02.020 Absolutely.

NOTE Confidence: 0.99501723

00:00:02.560 --> 00:00:04.240 I'm going to introduce you

NOTE Confidence: 0.99501723

00:00:04.240 --> 00:00:05.140 very officially.

NOTE Confidence: 0.9435422

00:00:06.319 --> 00:00:07.859 Panina is away on vacation,

NOTE Confidence: 0.9435422

00:00:08.000 --> 00:00:09.440 so I am I'm put

NOTE Confidence: 0.9435422

00:00:09.440 --> 00:00:10.660 in charge with Carina

NOTE Confidence: 0.97153246

00:00:10.960 --> 00:00:12.000 of doing your intro. So

NOTE Confidence: 0.97153246

00:00:12.000 --> 00:00:13.119 I'm gonna hopefully do you

NOTE Confidence: 0.97153246

00:00:13.119 --> 00:00:13.620 justice.

NOTE Confidence: 0.9881601

00:00:14.160 --> 00:00:15.759 So welcome to PELC friends,

NOTE Confidence: 0.9881601

00:00:15.759 --> 00:00:17.704 and happy Presidents' Day. We

NOTE Confidence: 0.9881601

00:00:17.704 --> 00:00:19.164 were we were just commenting

NOTE Confidence: 0.9881601

00:00:19.225 --> 00:00:20.185 on the fact that even

NOTE Confidence: 0.9881601

00:00:20.185 --> 00:00:21.485 though it's not a university  
NOTE Confidence: 0.9881601

00:00:21.625 --> 00:00:23.545 holiday, I think, many faculty  
NOTE Confidence: 0.9881601

00:00:23.545 --> 00:00:24.744 might have taken time off  
NOTE Confidence: 0.9881601

00:00:24.744 --> 00:00:26.185 today to be with their,  
NOTE Confidence: 0.9881601

00:00:26.744 --> 00:00:28.605 friends and family members who  
NOTE Confidence: 0.9881601

00:00:28.744 --> 00:00:30.199 may also be off and  
NOTE Confidence: 0.9881601

00:00:30.199 --> 00:00:31.960 not working. So I expect  
NOTE Confidence: 0.9881601

00:00:31.960 --> 00:00:33.320 that in addition to our  
NOTE Confidence: 0.9881601

00:00:33.320 --> 00:00:34.620 fabulous group who's,  
NOTE Confidence: 0.9975667

00:00:35.239 --> 00:00:37.400 here presently on Zoom today,  
NOTE Confidence: 0.9975667

00:00:37.400 --> 00:00:38.440 other people will have the  
NOTE Confidence: 0.9975667

00:00:38.440 --> 00:00:40.059 opportunity to watch this virtually.  
NOTE Confidence: 0.9975667

00:00:40.280 --> 00:00:41.775 So welcome to all.  
NOTE Confidence: 0.9541619

00:00:42.415 --> 00:00:44.735 Doctor Isabelle Teresia Gross is  
NOTE Confidence: 0.9541619

00:00:44.735 --> 00:00:46.515 an associate professor of pediatric  
NOTE Confidence: 0.9541619

00:00:46.575 --> 00:00:47.635 emergency medicine.

NOTE Confidence: 0.9986094  
00:00:48.095 --> 00:00:49.215 She serves as the director  
NOTE Confidence: 0.9986094  
00:00:49.215 --> 00:00:50.595 of the pediatric simulations  
NOTE Confidence: 0.94437283  
00:00:50.975 --> 00:00:51.475 teaching,  
NOTE Confidence: 0.8720506  
00:00:52.095 --> 00:00:53.775 all learner levels across the  
NOTE Confidence: 0.8720506  
00:00:53.775 --> 00:00:55.475 university and the hospital system.  
NOTE Confidence: 0.9496751  
00:00:55.880 --> 00:00:57.160 She is the incoming chief  
NOTE Confidence: 0.9496751  
00:00:57.160 --> 00:00:58.680 of the International Network for  
NOTE Confidence: 0.9496751  
00:00:58.680 --> 00:01:01.000 Simulation based Pediatric Innovation Research  
NOTE Confidence: 0.9496751  
00:01:01.000 --> 00:01:02.680 and Education, otherwise known as  
NOTE Confidence: 0.9496751  
00:01:02.680 --> 00:01:03.180 INSPIRE.  
NOTE Confidence: 0.9425143  
00:01:03.720 --> 00:01:05.000 And she cofounded the health  
NOTE Confidence: 0.9425143  
00:01:05.000 --> 00:01:07.000 care distance simulation collaborative, which  
NOTE Confidence: 0.9425143  
00:01:07.000 --> 00:01:08.060 is called HDFC,  
NOTE Confidence: 0.97711384  
00:01:08.705 --> 00:01:10.145 as well as the AI  
NOTE Confidence: 0.97711384  
00:01:10.145 --> 00:01:11.525 simulation health care collaborative.  
NOTE Confidence: 0.9668038

00:01:11.905 --> 00:01:13.425 Doctor Grossen is is an  
NOTE Confidence: 0.9668038

00:01:13.425 --> 00:01:16.005 amazing established simulation based researcher  
NOTE Confidence: 0.9668038

00:01:16.065 --> 00:01:17.825 and research mentor for her  
NOTE Confidence: 0.9668038

00:01:17.825 --> 00:01:19.345 international colleagues as well as  
NOTE Confidence: 0.9668038

00:01:19.345 --> 00:01:20.565 those here at Yale.  
NOTE Confidence: 0.97877103

00:01:20.970 --> 00:01:22.650 Her simulation based research focus  
NOTE Confidence: 0.97877103

00:01:22.650 --> 00:01:24.430 is on distance simulation, international  
NOTE Confidence: 0.97877103

00:01:24.569 --> 00:01:25.470 outreach simulation,  
NOTE Confidence: 0.97158575

00:01:25.770 --> 00:01:27.210 and exploring new approaches in  
NOTE Confidence: 0.97158575

00:01:27.210 --> 00:01:29.770 simulation based education, including using  
NOTE Confidence: 0.97158575

00:01:29.770 --> 00:01:30.830 artificial intelligence.  
NOTE Confidence: 0.92159593

00:01:31.610 --> 00:01:33.230 Isabelle is a wonderful friend,  
NOTE Confidence: 0.98843676

00:01:33.895 --> 00:01:35.735 collaborator, and colleague, and I'm  
NOTE Confidence: 0.98843676

00:01:35.735 --> 00:01:37.174 so delighted to welcome her  
NOTE Confidence: 0.98843676

00:01:37.174 --> 00:01:38.454 to share her expertise with  
NOTE Confidence: 0.98843676

00:01:38.454 --> 00:01:39.895 our group today. So take

NOTE Confidence: 0.98843676  
00:01:39.895 --> 00:01:40.875 it away, Isabelle.  
NOTE Confidence: 0.92748785  
00:01:42.774 --> 00:01:44.935 Wonderful. Can everybody see the  
NOTE Confidence: 0.92748785  
00:01:44.935 --> 00:01:45.755 slide okay?  
NOTE Confidence: 0.924111  
00:01:46.730 --> 00:01:48.030 We see it in presenter  
NOTE Confidence: 0.924111  
00:01:48.170 --> 00:01:49.290 view, so I can see  
NOTE Confidence: 0.924111  
00:01:49.290 --> 00:01:51.390 the Let me unshare again.  
NOTE Confidence: 0.819969  
00:01:53.130 --> 00:01:53.630 K.  
NOTE Confidence: 0.9985001  
00:01:59.345 --> 00:02:00.565 How does that look?  
NOTE Confidence: 0.99789524  
00:02:00.945 --> 00:02:01.445 Perfect.  
NOTE Confidence: 0.9833256  
00:02:01.985 --> 00:02:02.485 Great.  
NOTE Confidence: 0.9574356  
00:02:03.425 --> 00:02:05.345 So welcome, everybody, and, also,  
NOTE Confidence: 0.9574356  
00:02:05.345 --> 00:02:06.625 welcome to the audience that  
NOTE Confidence: 0.9574356  
00:02:06.625 --> 00:02:08.485 might be, seeing this remotely  
NOTE Confidence: 0.9574356  
00:02:08.625 --> 00:02:09.445 or afterwards.  
NOTE Confidence: 0.96551216  
00:02:10.385 --> 00:02:11.745 I didn't realize this was  
NOTE Confidence: 0.96551216

00:02:11.745 --> 00:02:13.205 president's day until  
NOTE Confidence: 0.9814485

00:02:14.320 --> 00:02:15.780 I realized it this morning.  
NOTE Confidence: 0.9814485

00:02:15.919 --> 00:02:17.120 So thank you so much  
NOTE Confidence: 0.9814485

00:02:17.120 --> 00:02:18.240 for being here during this  
NOTE Confidence: 0.9814485

00:02:18.240 --> 00:02:19.780 cold winter day in Connecticut.  
NOTE Confidence: 0.96208674

00:02:20.480 --> 00:02:22.000 I'm very honored and excited  
NOTE Confidence: 0.96208674

00:02:22.000 --> 00:02:23.120 to be here. Thank you  
NOTE Confidence: 0.96208674

00:02:23.120 --> 00:02:24.560 so much, Lindsay, for your  
NOTE Confidence: 0.96208674

00:02:24.560 --> 00:02:26.800 generous introduction. Lindsay Lindsay has  
NOTE Confidence: 0.96208674

00:02:26.800 --> 00:02:27.919 been my mentor for many  
NOTE Confidence: 0.96208674

00:02:27.919 --> 00:02:28.960 years. I always call her  
NOTE Confidence: 0.96208674

00:02:28.960 --> 00:02:30.020 my female mentor.  
NOTE Confidence: 0.9991722

00:02:30.935 --> 00:02:31.894 So thank you so much  
NOTE Confidence: 0.9991722

00:02:31.894 --> 00:02:32.474 for that.  
NOTE Confidence: 0.94644266

00:02:33.254 --> 00:02:34.614 Today, we will be talking  
NOTE Confidence: 0.94644266

00:02:34.614 --> 00:02:35.095 about,

NOTE Confidence: 0.95316875  
00:02:36.294 --> 00:02:38.635 pediatric simulation based medical education,  
NOTE Confidence: 0.98666024  
00:02:39.495 --> 00:02:41.355 basics, resources, and opportunities.  
NOTE Confidence: 0.99990636  
00:02:41.735 --> 00:02:43.174 I know that many here  
NOTE Confidence: 0.99990636  
00:02:43.174 --> 00:02:43.995 have extensive  
NOTE Confidence: 0.959902  
00:02:44.530 --> 00:02:46.290 medical education background, so I'm  
NOTE Confidence: 0.959902  
00:02:46.290 --> 00:02:47.409 hoping that we still have  
NOTE Confidence: 0.959902  
00:02:47.409 --> 00:02:48.629 some nuggets for you,  
NOTE Confidence: 0.99460053  
00:02:48.930 --> 00:02:50.290 but there's also some basic  
NOTE Confidence: 0.99460053  
00:02:50.290 --> 00:02:51.409 information if this is a  
NOTE Confidence: 0.99460053  
00:02:51.409 --> 00:02:53.110 bit more new to you.  
NOTE Confidence: 0.94505626  
00:02:53.569 --> 00:02:54.690 I always have a bit  
NOTE Confidence: 0.94505626  
00:02:54.690 --> 00:02:55.190 hesitation  
NOTE Confidence: 0.9761272  
00:02:55.889 --> 00:02:56.930 giving a talk about a  
NOTE Confidence: 0.9761272  
00:02:56.930 --> 00:02:57.830 topic that  
NOTE Confidence: 0.932264  
00:02:58.435 --> 00:03:00.035 questioning questions if talks are  
NOTE Confidence: 0.932264

00:03:00.035 --> 00:03:01.235 the way to teach adult  
NOTE Confidence: 0.932264

00:03:01.235 --> 00:03:01.735 learners.  
NOTE Confidence: 0.9844822

00:03:02.755 --> 00:03:03.955 But I hope I mean,  
NOTE Confidence: 0.9844822

00:03:03.955 --> 00:03:04.915 here we are. So I  
NOTE Confidence: 0.9844822

00:03:04.915 --> 00:03:05.575 hope that,  
NOTE Confidence: 0.9996058

00:03:06.115 --> 00:03:06.915 I will get to do  
NOTE Confidence: 0.9996058

00:03:06.915 --> 00:03:08.115 simulations with all of you  
NOTE Confidence: 0.9996058

00:03:08.115 --> 00:03:08.935 at some point.  
NOTE Confidence: 0.9720829

00:03:09.635 --> 00:03:10.995 Please place any questions in  
NOTE Confidence: 0.9720829

00:03:10.995 --> 00:03:11.875 the chat if you would  
NOTE Confidence: 0.9720829

00:03:11.875 --> 00:03:12.375 like.  
NOTE Confidence: 0.95510405

00:03:12.770 --> 00:03:14.050 And the moderator at the  
NOTE Confidence: 0.95510405

00:03:14.050 --> 00:03:15.650 end, either Lindsay or Karina,  
NOTE Confidence: 0.95510405

00:03:15.650 --> 00:03:17.010 you can facilitate the discussion.  
NOTE Confidence: 0.95510405

00:03:17.010 --> 00:03:18.050 I will probably do all  
NOTE Confidence: 0.95510405

00:03:18.050 --> 00:03:19.169 the questions at the end

NOTE Confidence: 0.95510405  
00:03:19.169 --> 00:03:20.069 if that's okay.  
NOTE Confidence: 0.987445  
00:03:21.090 --> 00:03:22.230 And at this time,  
NOTE Confidence: 0.9996022  
00:03:22.530 --> 00:03:23.730 if you could just put  
NOTE Confidence: 0.9996022  
00:03:23.730 --> 00:03:24.389 your role  
NOTE Confidence: 0.98897994  
00:03:24.865 --> 00:03:26.385 in medical education as well  
NOTE Confidence: 0.98897994  
00:03:26.385 --> 00:03:27.925 as your involvement in simulation  
NOTE Confidence: 0.98897994  
00:03:27.985 --> 00:03:29.665 training in the chat so  
NOTE Confidence: 0.98897994  
00:03:29.665 --> 00:03:30.705 we can get an idea  
NOTE Confidence: 0.98897994  
00:03:30.705 --> 00:03:31.025 of who  
NOTE Confidence: 0.9750195  
00:03:31.825 --> 00:03:33.105 of what because we know  
NOTE Confidence: 0.9750195  
00:03:33.105 --> 00:03:34.385 who each other is. Right?  
NOTE Confidence: 0.9750195  
00:03:34.385 --> 00:03:35.425 But we not know might  
NOTE Confidence: 0.9750195  
00:03:35.425 --> 00:03:36.545 not know exactly what we  
NOTE Confidence: 0.9750195  
00:03:36.545 --> 00:03:37.905 are all doing in in  
NOTE Confidence: 0.9750195  
00:03:37.905 --> 00:03:38.405 MedEd.  
NOTE Confidence: 0.93458325

00:03:51.440 --> 00:03:52.720 Great. So Melissa is teaching  
NOTE Confidence: 0.93458325

00:03:52.720 --> 00:03:54.020 PEM fellows. That's wonderful.  
NOTE Confidence: 0.83482885

00:04:00.505 --> 00:04:01.965 Lindsey is teaching everyone.  
NOTE Confidence: 0.91613185

00:04:07.305 --> 00:04:08.285 Excellent. Heather,  
NOTE Confidence: 0.94980687

00:04:09.540 --> 00:04:11.080 pediatric hospitalist fellowship.  
NOTE Confidence: 0.99938667

00:04:11.460 --> 00:04:11.960 Awesome.  
NOTE Confidence: 0.95650756

00:04:13.780 --> 00:04:14.900 Clara, I really can't wait  
NOTE Confidence: 0.95650756

00:04:14.900 --> 00:04:15.780 to work with you more.  
NOTE Confidence: 0.95650756

00:04:15.780 --> 00:04:16.980 So that's gonna be great  
NOTE Confidence: 0.95650756

00:04:16.980 --> 00:04:18.839 as well. Students, residents, APPs.  
NOTE Confidence: 0.9825902

00:04:19.940 --> 00:04:21.140 So as this keeps going,  
NOTE Confidence: 0.9825902

00:04:21.140 --> 00:04:22.339 you you all can keep,  
NOTE Confidence: 0.9825902

00:04:22.740 --> 00:04:24.100 keep seeing what what everybody  
NOTE Confidence: 0.9825902

00:04:24.100 --> 00:04:25.095 is doing. So I think  
NOTE Confidence: 0.9825902

00:04:25.095 --> 00:04:26.135 this is a good audience  
NOTE Confidence: 0.9825902

00:04:26.135 --> 00:04:27.495 actually for this talk. I

NOTE Confidence: 0.9825902

00:04:27.495 --> 00:04:28.455 was hoping to see these

NOTE Confidence: 0.9825902

00:04:28.455 --> 00:04:29.995 answers here. So that's wonderful.

NOTE Confidence: 0.9801751

00:04:33.175 --> 00:04:34.055 So I have nothing to

NOTE Confidence: 0.9801751

00:04:34.055 --> 00:04:35.815 disclose today. So let's get

NOTE Confidence: 0.9801751

00:04:35.815 --> 00:04:37.255 to our learning objectives. You

NOTE Confidence: 0.9801751

00:04:37.255 --> 00:04:38.455 probably saw them already on

NOTE Confidence: 0.9801751

00:04:38.455 --> 00:04:40.199 the flyer. We'll talk about

NOTE Confidence: 0.9801751

00:04:40.199 --> 00:04:42.139 very basic definition of simulation

NOTE Confidence: 0.9801751

00:04:42.199 --> 00:04:44.120 based medical education and debriefing

NOTE Confidence: 0.9801751

00:04:44.120 --> 00:04:45.319 to get everybody on the

NOTE Confidence: 0.9801751

00:04:45.319 --> 00:04:47.080 same page. We'll talk about

NOTE Confidence: 0.9801751

00:04:47.080 --> 00:04:49.000 how to apply simulation based

NOTE Confidence: 0.9801751

00:04:49.000 --> 00:04:51.080 medical education in diverse clinical

NOTE Confidence: 0.9801751

00:04:51.080 --> 00:04:52.555 settings. There will be some

NOTE Confidence: 0.9801751

00:04:52.555 --> 00:04:54.555 theoretical background here, so I

NOTE Confidence: 0.9801751

00:04:54.555 --> 00:04:55.754 hope you'll stay with me.  
NOTE Confidence: 0.9801751

00:04:55.754 --> 00:04:56.714 But I try to make  
NOTE Confidence: 0.9801751

00:04:56.714 --> 00:04:58.714 it fun, so hopefully, you'll  
NOTE Confidence: 0.9801751

00:04:58.714 --> 00:04:59.995 you'll you'll take something away  
NOTE Confidence: 0.9801751

00:04:59.995 --> 00:05:01.675 from it. And lastly, probably  
NOTE Confidence: 0.9801751

00:05:01.675 --> 00:05:02.714 my favorite and the most  
NOTE Confidence: 0.9801751

00:05:02.714 --> 00:05:03.754 exciting part is how to  
NOTE Confidence: 0.9801751

00:05:03.754 --> 00:05:05.754 integrate simulation based methods into  
NOTE Confidence: 0.9801751

00:05:05.754 --> 00:05:06.254 your  
NOTE Confidence: 0.99107015

00:05:06.680 --> 00:05:08.599 medical education activities. So this  
NOTE Confidence: 0.99107015

00:05:08.599 --> 00:05:10.360 will be concrete examples of  
NOTE Confidence: 0.99107015

00:05:10.360 --> 00:05:11.400 what we have done, what  
NOTE Confidence: 0.99107015

00:05:11.400 --> 00:05:12.839 I have done, what others  
NOTE Confidence: 0.99107015

00:05:12.839 --> 00:05:14.279 have done at Yale to  
NOTE Confidence: 0.99107015

00:05:14.279 --> 00:05:15.580 actually apply it.  
NOTE Confidence: 0.9989061

00:05:17.000 --> 00:05:18.620 So let's talk about

NOTE Confidence: 0.9715375

00:05:19.074 --> 00:05:20.275 simulation first. What do we

NOTE Confidence: 0.9715375

00:05:20.275 --> 00:05:22.435 mean by simulation independent of

NOTE Confidence: 0.9715375

00:05:22.435 --> 00:05:23.815 health care? Right. So,

NOTE Confidence: 0.9817606

00:05:25.235 --> 00:05:26.995 simulations or environments are designed

NOTE Confidence: 0.9817606

00:05:26.995 --> 00:05:28.595 to closely approximate the real

NOTE Confidence: 0.9817606

00:05:28.595 --> 00:05:30.675 world situations to achieve a

NOTE Confidence: 0.9817606

00:05:30.675 --> 00:05:32.194 stated goal. Right. So what

NOTE Confidence: 0.9817606

00:05:32.194 --> 00:05:33.839 that means is you're simulating

NOTE Confidence: 0.9817606

00:05:34.139 --> 00:05:34.639 something.

NOTE Confidence: 0.99374324

00:05:34.940 --> 00:05:36.139 In our case, in our

NOTE Confidence: 0.99374324

00:05:36.139 --> 00:05:38.160 setting, we're simulating a situation

NOTE Confidence: 0.99374324

00:05:38.220 --> 00:05:39.820 that is designed mostly for

NOTE Confidence: 0.99374324

00:05:39.820 --> 00:05:42.300 education, assessment and quality improvement.

NOTE Confidence: 0.99374324

00:05:42.300 --> 00:05:43.180 I would say most of

NOTE Confidence: 0.99374324

00:05:43.180 --> 00:05:44.400 us use it for that.

NOTE Confidence: 0.99374324

00:05:44.460 --> 00:05:45.580 I mostly use it for  
NOTE Confidence: 0.99374324

00:05:45.580 --> 00:05:46.080 education.  
NOTE Confidence: 0.991685

00:05:46.395 --> 00:05:47.595 Some of our colleagues actually  
NOTE Confidence: 0.991685

00:05:47.595 --> 00:05:48.794 use it more for systems  
NOTE Confidence: 0.991685

00:05:48.794 --> 00:05:50.254 testing and assessment.  
NOTE Confidence: 0.98261905

00:05:52.794 --> 00:05:53.294 So  
NOTE Confidence: 0.9338133

00:05:53.595 --> 00:05:54.395 I can't do a talk  
NOTE Confidence: 0.9338133

00:05:54.395 --> 00:05:55.595 without a picture of the  
NOTE Confidence: 0.9338133

00:05:55.595 --> 00:05:56.095 Simpsons.  
NOTE Confidence: 0.98319376

00:05:57.754 --> 00:05:59.194 So why why are we  
NOTE Confidence: 0.98319376

00:05:59.194 --> 00:06:00.014 doing simulations?  
NOTE Confidence: 0.9966903

00:06:00.555 --> 00:06:01.694 So if you  
NOTE Confidence: 0.9965623

00:06:02.449 --> 00:06:04.470 think about it, usually simulations  
NOTE Confidence: 0.9965623

00:06:04.690 --> 00:06:06.449 in general are done in  
NOTE Confidence: 0.9965623

00:06:06.449 --> 00:06:07.430 areas where  
NOTE Confidence: 0.99867654

00:06:08.130 --> 00:06:09.350 real world training

NOTE Confidence: 0.973108

00:06:09.810 --> 00:06:11.089 would maybe be either too

NOTE Confidence: 0.973108

00:06:11.089 --> 00:06:12.930 costly or too dangerous. Like

NOTE Confidence: 0.973108

00:06:12.930 --> 00:06:14.130 Homer is just reading the

NOTE Confidence: 0.973108

00:06:14.130 --> 00:06:15.830 safety manual for the nuclear

NOTE Confidence: 0.973108

00:06:16.075 --> 00:06:17.195 reactor, which might not be

NOTE Confidence: 0.973108

00:06:17.195 --> 00:06:18.235 the way to train. A

NOTE Confidence: 0.973108

00:06:18.235 --> 00:06:19.435 simulation would have served him

NOTE Confidence: 0.973108

00:06:19.435 --> 00:06:20.495 better, I suppose.

NOTE Confidence: 0.9730257

00:06:21.035 --> 00:06:22.495 It is very widely used

NOTE Confidence: 0.9362778

00:06:22.795 --> 00:06:24.635 in the airline industry with

NOTE Confidence: 0.9362778

00:06:24.635 --> 00:06:26.714 NASA, the military, and nuclear

NOTE Confidence: 0.9362778

00:06:26.714 --> 00:06:28.795 powers, actually, for decades already.

NOTE Confidence: 0.9362778

00:06:28.795 --> 00:06:29.915 And I will tell you

NOTE Confidence: 0.9362778

00:06:29.915 --> 00:06:30.635 something that,

NOTE Confidence: 0.9780143

00:06:31.370 --> 00:06:32.730 became clear to me recently

NOTE Confidence: 0.9780143

00:06:32.730 --> 00:06:33.930 doing a keynote, doing one  
NOTE Confidence: 0.9780143

00:06:33.930 --> 00:06:35.390 of our simulation presentations  
NOTE Confidence: 0.9577325

00:06:36.010 --> 00:06:37.210 is that one of the  
NOTE Confidence: 0.9577325

00:06:37.210 --> 00:06:38.990 big differences is really that  
NOTE Confidence: 0.9577325

00:06:39.050 --> 00:06:39.710 in those  
NOTE Confidence: 0.9832655

00:06:40.250 --> 00:06:40.750 areas,  
NOTE Confidence: 0.96916234

00:06:41.050 --> 00:06:42.570 it's your own safety is  
NOTE Confidence: 0.96916234

00:06:42.570 --> 00:06:43.690 on the line. Right? So  
NOTE Confidence: 0.96916234

00:06:43.690 --> 00:06:44.810 in medicine, it's a little  
NOTE Confidence: 0.96916234

00:06:44.810 --> 00:06:45.470 bit different  
NOTE Confidence: 0.9890831

00:06:45.854 --> 00:06:47.294 because you are treating patients  
NOTE Confidence: 0.9890831

00:06:47.294 --> 00:06:48.335 and their safety is on  
NOTE Confidence: 0.9890831

00:06:48.335 --> 00:06:48.914 the line.  
NOTE Confidence: 0.9813945

00:06:49.455 --> 00:06:50.175 At the same time, you  
NOTE Confidence: 0.9813945

00:06:50.175 --> 00:06:51.214 will relate to it, but  
NOTE Confidence: 0.9813945

00:06:51.214 --> 00:06:51.935 it's not you in the

NOTE Confidence: 0.9813945

00:06:51.935 --> 00:06:52.895 bed, it's the patient in

NOTE Confidence: 0.9813945

00:06:52.895 --> 00:06:53.935 the bed. So maybe that

NOTE Confidence: 0.9813945

00:06:53.935 --> 00:06:55.935 has really sparked things a

NOTE Confidence: 0.9813945

00:06:55.935 --> 00:06:57.214 little earlier in those other

NOTE Confidence: 0.9813945

00:06:57.214 --> 00:06:57.714 industries.

NOTE Confidence: 0.9801903

00:06:59.699 --> 00:07:00.819 Here you can see some

NOTE Confidence: 0.9801903

00:07:00.819 --> 00:07:02.339 very early simulators, which I

NOTE Confidence: 0.9801903

00:07:02.339 --> 00:07:03.460 love. I love that picture.

NOTE Confidence: 0.9801903

00:07:03.460 --> 00:07:03.779 So,

NOTE Confidence: 0.9620649

00:07:04.580 --> 00:07:05.539 Edwin Link, this is just

NOTE Confidence: 0.9620649

00:07:05.539 --> 00:07:06.819 a little history, had a

NOTE Confidence: 0.9620649

00:07:06.819 --> 00:07:08.419 passion for flying, but he

NOTE Confidence: 0.9620649

00:07:08.419 --> 00:07:09.940 couldn't afford the lessons because

NOTE Confidence: 0.9620649

00:07:09.940 --> 00:07:11.675 it was really expensive to

NOTE Confidence: 0.9620649

00:07:11.675 --> 00:07:12.875 get flying lessons in the

NOTE Confidence: 0.9620649

00:07:12.875 --> 00:07:14.635 early twenties of, of the  
NOTE Confidence: 0.9620649

00:07:14.635 --> 00:07:15.535 twentieth century.  
NOTE Confidence: 0.99838346

00:07:16.075 --> 00:07:17.355 So he developed his own  
NOTE Confidence: 0.99838346

00:07:17.355 --> 00:07:18.955 flight simulator. It took him  
NOTE Confidence: 0.99838346

00:07:18.955 --> 00:07:20.415 eighteen months to make it.  
NOTE Confidence: 0.98200595

00:07:20.955 --> 00:07:21.995 It was a toy plane  
NOTE Confidence: 0.98200595

00:07:21.995 --> 00:07:22.955 as you can see with,  
NOTE Confidence: 0.98200595

00:07:22.955 --> 00:07:24.395 like, short wooden wings. Those  
NOTE Confidence: 0.98200595

00:07:24.395 --> 00:07:25.355 wings are made from wood  
NOTE Confidence: 0.98200595

00:07:25.355 --> 00:07:26.575 that you can see there.  
NOTE Confidence: 0.98200595

00:07:26.715 --> 00:07:28.210 It had an electric pump  
NOTE Confidence: 0.98200595

00:07:28.210 --> 00:07:29.570 to simulate the movements of  
NOTE Confidence: 0.98200595

00:07:29.570 --> 00:07:30.230 the plane.  
NOTE Confidence: 0.9377916

00:07:30.690 --> 00:07:32.850 And actually, companies started liking  
NOTE Confidence: 0.9377916

00:07:32.850 --> 00:07:34.550 it and it got rapidly  
NOTE Confidence: 0.9377916

00:07:34.770 --> 00:07:36.610 adopted by the military and

NOTE Confidence: 0.9377916  
00:07:36.610 --> 00:07:37.750 it really revolutionized  
NOTE Confidence: 0.9552706  
00:07:38.210 --> 00:07:39.490 pilot training. You you can  
NOTE Confidence: 0.9552706  
00:07:39.490 --> 00:07:40.870 already see how it looks  
NOTE Confidence: 0.9552706  
00:07:40.875 --> 00:07:41.915 a bit like a flight  
NOTE Confidence: 0.9552706  
00:07:41.915 --> 00:07:43.195 simulator, doesn't it? So you  
NOTE Confidence: 0.9552706  
00:07:43.195 --> 00:07:44.255 crawl in there and,  
NOTE Confidence: 0.9800672  
00:07:45.675 --> 00:07:46.715 and you feel like you  
NOTE Confidence: 0.9800672  
00:07:46.715 --> 00:07:47.755 are flying, and you can  
NOTE Confidence: 0.9800672  
00:07:47.755 --> 00:07:49.615 maybe produce the hours  
NOTE Confidence: 0.9955106  
00:07:50.235 --> 00:07:51.035 needed to actually  
NOTE Confidence: 0.9798561  
00:07:51.515 --> 00:07:52.875 you know, that you're actually  
NOTE Confidence: 0.9798561  
00:07:52.875 --> 00:07:53.755 gonna need in the air  
NOTE Confidence: 0.9798561  
00:07:53.755 --> 00:07:54.555 that are gonna be so  
NOTE Confidence: 0.9798561  
00:07:54.555 --> 00:07:56.530 much more expensive, costly, right,  
NOTE Confidence: 0.9798561  
00:07:56.530 --> 00:07:58.130 and also risking your life  
NOTE Confidence: 0.9798561

00:07:58.130 --> 00:07:58.710 up there.  
NOTE Confidence: 0.98042226

00:08:01.169 --> 00:08:02.870 Here you can see a  
NOTE Confidence: 0.98042226

00:08:03.090 --> 00:08:04.850 probably familiar face to most  
NOTE Confidence: 0.98042226

00:08:04.850 --> 00:08:05.650 of you if you have  
NOTE Confidence: 0.98042226

00:08:05.650 --> 00:08:07.009 done CPR training in your  
NOTE Confidence: 0.98042226

00:08:07.009 --> 00:08:07.509 career.  
NOTE Confidence: 0.94306225

00:08:07.889 --> 00:08:08.289 So,  
NOTE Confidence: 0.98172396

00:08:09.115 --> 00:08:10.314 now we're in the sixties  
NOTE Confidence: 0.98172396

00:08:10.314 --> 00:08:11.854 in our history lesson. So,  
NOTE Confidence: 0.9682329

00:08:12.155 --> 00:08:15.055 Asmund Laerdal. Laerdal is probably  
NOTE Confidence: 0.9682329

00:08:15.115 --> 00:08:16.655 a name that sounds familiar  
NOTE Confidence: 0.9682329

00:08:16.715 --> 00:08:18.014 to most of you,  
NOTE Confidence: 0.9800719

00:08:18.634 --> 00:08:20.155 because of the Laerdal company  
NOTE Confidence: 0.9800719

00:08:20.155 --> 00:08:22.254 that makes simulation equipment. Right?  
NOTE Confidence: 0.9385393

00:08:22.690 --> 00:08:24.690 So actually, Asmund Laerdal is  
NOTE Confidence: 0.9385393

00:08:24.690 --> 00:08:26.370 a person in Norway, and

NOTE Confidence: 0.9385393

00:08:26.370 --> 00:08:27.650 he saved the life of

NOTE Confidence: 0.9385393

00:08:27.650 --> 00:08:29.030 his young son, Tora.

NOTE Confidence: 0.94826406

00:08:29.570 --> 00:08:31.730 Tora was drowning in some

NOTE Confidence: 0.94826406

00:08:31.730 --> 00:08:32.770 body of water. Actually, I'm

NOTE Confidence: 0.94826406

00:08:32.770 --> 00:08:34.210 not sure what where exactly

NOTE Confidence: 0.94826406

00:08:34.210 --> 00:08:35.650 he was drowning. And his

NOTE Confidence: 0.94826406

00:08:35.650 --> 00:08:37.250 father, Asmund, grabbed the boy

NOTE Confidence: 0.94826406

00:08:37.250 --> 00:08:38.615 out of the water just

NOTE Confidence: 0.94826406

00:08:38.615 --> 00:08:39.975 in time, cleared his airway,

NOTE Confidence: 0.94826406

00:08:39.975 --> 00:08:41.654 and Torre is still with

NOTE Confidence: 0.94826406

00:08:41.654 --> 00:08:42.295 us now,

NOTE Confidence: 0.99919564

00:08:43.255 --> 00:08:44.075 which is wonderful.

NOTE Confidence: 0.9969943

00:08:44.615 --> 00:08:45.514 At that time,

NOTE Confidence: 0.8310162

00:08:46.054 --> 00:08:48.394 Asmund Lardell was a toy,

NOTE Confidence: 0.7351601

00:08:49.095 --> 00:08:49.595 factory.

NOTE Confidence: 0.9458494

00:08:50.470 --> 00:08:51.470 Worked in a toy factory.  
NOTE Confidence: 0.9458494

00:08:51.470 --> 00:08:52.790 He was a manufacturer for  
NOTE Confidence: 0.9458494

00:08:52.790 --> 00:08:54.630 toys in in Norway, and  
NOTE Confidence: 0.9458494

00:08:54.630 --> 00:08:55.990 his specialty was a very  
NOTE Confidence: 0.9458494

00:08:55.990 --> 00:08:58.330 specific new soft plastic.  
NOTE Confidence: 0.94609696

00:08:59.190 --> 00:09:00.710 So a few years later,  
NOTE Confidence: 0.94609696

00:09:00.710 --> 00:09:01.670 I think, like, about five  
NOTE Confidence: 0.94609696

00:09:01.670 --> 00:09:03.130 years later, he was approached  
NOTE Confidence: 0.9726655

00:09:03.590 --> 00:09:04.650 to help make,  
NOTE Confidence: 0.99656445

00:09:05.365 --> 00:09:06.505 a trainer to  
NOTE Confidence: 0.9795723

00:09:06.805 --> 00:09:08.805 train that newly invented technique  
NOTE Confidence: 0.9795723

00:09:08.805 --> 00:09:10.325 called CPR that all of  
NOTE Confidence: 0.9795723

00:09:10.325 --> 00:09:11.365 us are familiar with, I  
NOTE Confidence: 0.9795723

00:09:11.365 --> 00:09:12.885 hope. And he remembered his  
NOTE Confidence: 0.9795723

00:09:12.885 --> 00:09:14.165 own experience with the sun  
NOTE Confidence: 0.9795723

00:09:14.165 --> 00:09:15.605 drowning. So he became really

NOTE Confidence: 0.9795723  
00:09:15.605 --> 00:09:17.205 passionate about this and moved  
NOTE Confidence: 0.9795723  
00:09:17.205 --> 00:09:18.505 away from making toys  
NOTE Confidence: 0.9991124  
00:09:18.830 --> 00:09:20.050 to making those simulators.  
NOTE Confidence: 0.9349577  
00:09:21.790 --> 00:09:22.990 So first, he developed a  
NOTE Confidence: 0.9349577  
00:09:22.990 --> 00:09:23.490 torso.  
NOTE Confidence: 0.96890247  
00:09:23.870 --> 00:09:24.530 It simulated  
NOTE Confidence: 0.96986365  
00:09:25.150 --> 00:09:27.309 an unconscious patient that needs  
NOTE Confidence: 0.96986365  
00:09:27.309 --> 00:09:28.750 CPR that you can give  
NOTE Confidence: 0.96986365  
00:09:28.750 --> 00:09:29.809 CPR to.  
NOTE Confidence: 0.9752224  
00:09:30.670 --> 00:09:31.950 It was really important to  
NOTE Confidence: 0.9752224  
00:09:31.950 --> 00:09:33.730 him though that the mannequin  
NOTE Confidence: 0.9752224  
00:09:33.950 --> 00:09:35.605 looks very natural. He didn't  
NOTE Confidence: 0.9752224  
00:09:35.605 --> 00:09:36.964 want something that looks like  
NOTE Confidence: 0.9752224  
00:09:36.964 --> 00:09:38.005 a toy or looks like  
NOTE Confidence: 0.9752224  
00:09:38.005 --> 00:09:39.605 a robot. He also felt  
NOTE Confidence: 0.9752224

00:09:39.605 --> 00:09:40.904 that maybe a female  
NOTE Confidence: 0.9982879

00:09:41.845 --> 00:09:43.445 doll might look a little  
NOTE Confidence: 0.9982879

00:09:43.445 --> 00:09:44.725 bit less threatening to the  
NOTE Confidence: 0.9982879

00:09:44.725 --> 00:09:45.225 trainees  
NOTE Confidence: 0.96651125

00:09:45.765 --> 00:09:46.645 at the time. And then  
NOTE Confidence: 0.96651125

00:09:46.645 --> 00:09:47.925 he remembered a mask at  
NOTE Confidence: 0.96651125

00:09:47.925 --> 00:09:49.285 his grandparents' house, and he  
NOTE Confidence: 0.96651125

00:09:49.285 --> 00:09:50.579 thought that  
NOTE Confidence: 0.99823475

00:09:51.120 --> 00:09:51.620 the  
NOTE Confidence: 0.39975476

00:09:52.000 --> 00:09:52.500 which  
NOTE Confidence: 0.9910309

00:09:53.040 --> 00:09:54.880 is it's basically a person  
NOTE Confidence: 0.9910309

00:09:54.880 --> 00:09:56.079 that was found in the  
NOTE Confidence: 0.9910309

00:09:56.079 --> 00:09:57.200 Seine, which is a river  
NOTE Confidence: 0.9910309

00:09:57.200 --> 00:09:57.940 in Paris.  
NOTE Confidence: 0.94998205

00:09:59.120 --> 00:10:00.320 She she was dead at  
NOTE Confidence: 0.94998205

00:10:00.320 --> 00:10:01.040 the time, but as you

NOTE Confidence: 0.94998205

00:10:01.040 --> 00:10:01.760 can as you can see

NOTE Confidence: 0.94998205

00:10:01.760 --> 00:10:02.559 in the picture in the

NOTE Confidence: 0.94998205

00:10:02.559 --> 00:10:03.285 lower right,

NOTE Confidence: 0.9293058

00:10:03.845 --> 00:10:05.045 she looks so peaceful and

NOTE Confidence: 0.9293058

00:10:05.045 --> 00:10:06.105 she looks so neutral.

NOTE Confidence: 0.99582183

00:10:06.884 --> 00:10:08.745 So he used her as

NOTE Confidence: 0.9622654

00:10:09.365 --> 00:10:10.985 a face for Versace Annie,

NOTE Confidence: 0.9622654

00:10:11.045 --> 00:10:12.504 which maybe you've heard that

NOTE Confidence: 0.9622654

00:10:12.644 --> 00:10:14.084 term before. Versace Annie is

NOTE Confidence: 0.9622654

00:10:14.084 --> 00:10:16.584 actually that first Laerdal simulator

NOTE Confidence: 0.9622654

00:10:16.644 --> 00:10:17.524 that you can see on

NOTE Confidence: 0.9622654

00:10:17.524 --> 00:10:18.824 these pictures as well.

NOTE Confidence: 0.95347756

00:10:20.340 --> 00:10:21.780 So, yeah, since then, since

NOTE Confidence: 0.95347756

00:10:21.780 --> 00:10:23.380 he is Tora is actually

NOTE Confidence: 0.95347756

00:10:23.380 --> 00:10:24.740 a really nice guy. He

NOTE Confidence: 0.95347756

00:10:24.740 --> 00:10:25.620 comes to all of our  
NOTE Confidence: 0.95347756

00:10:25.620 --> 00:10:27.860 simulation conferences. He's always very  
NOTE Confidence: 0.95347756

00:10:27.860 --> 00:10:29.460 interested and is totally down  
NOTE Confidence: 0.95347756

00:10:29.460 --> 00:10:30.420 to earth. You can just  
NOTE Confidence: 0.95347756

00:10:30.420 --> 00:10:31.300 come up to him, talk  
NOTE Confidence: 0.95347756

00:10:31.300 --> 00:10:32.580 to him. You can just  
NOTE Confidence: 0.95347756

00:10:32.580 --> 00:10:33.320 see that  
NOTE Confidence: 0.9446378

00:10:33.625 --> 00:10:34.985 because of this early life  
NOTE Confidence: 0.9446378

00:10:34.985 --> 00:10:36.525 experience, his life was saved.  
NOTE Confidence: 0.97128284

00:10:37.225 --> 00:10:39.245 He's very passionate, and  
NOTE Confidence: 0.9604387

00:10:39.705 --> 00:10:41.545 he his foundation invests a  
NOTE Confidence: 0.9604387

00:10:41.545 --> 00:10:42.105 lot in,  
NOTE Confidence: 0.9565611

00:10:42.665 --> 00:10:43.625 or funds a lot of  
NOTE Confidence: 0.9565611

00:10:43.625 --> 00:10:44.365 low resource,  
NOTE Confidence: 0.9992698

00:10:44.825 --> 00:10:45.325 setting  
NOTE Confidence: 0.95138675

00:10:46.070 --> 00:10:47.590 research, so it's pretty impressive.

NOTE Confidence: 0.95138675

00:10:47.590 --> 00:10:48.710 There's a paper that's gonna

NOTE Confidence: 0.95138675

00:10:48.710 --> 00:10:49.429 come out soon in the

NOTE Confidence: 0.95138675

00:10:49.429 --> 00:10:50.790 New England Journal of Medicine

NOTE Confidence: 0.95138675

00:10:50.790 --> 00:10:51.290 improving

NOTE Confidence: 0.9741216

00:10:51.750 --> 00:10:53.190 maternal health in,

NOTE Confidence: 0.96122557

00:10:53.750 --> 00:10:55.670 low resourced countries. Pretty impressive

NOTE Confidence: 0.96122557

00:10:55.670 --> 00:10:56.170 work.

NOTE Confidence: 0.9664691

00:10:57.925 --> 00:10:59.365 And now marching through, you

NOTE Confidence: 0.9664691

00:10:59.365 --> 00:11:00.485 can see more and more

NOTE Confidence: 0.9664691

00:11:00.485 --> 00:11:02.085 computers here. You can listen

NOTE Confidence: 0.9664691

00:11:02.085 --> 00:11:03.205 to the heart. There's some

NOTE Confidence: 0.9664691

00:11:03.205 --> 00:11:04.245 sounds to this one in

NOTE Confidence: 0.9664691

00:11:04.245 --> 00:11:04.985 the sixties.

NOTE Confidence: 0.9232697

00:11:05.365 --> 00:11:06.405 You can see the first

NOTE Confidence: 0.9232697

00:11:06.405 --> 00:11:08.565 commute computer simulator. It was

NOTE Confidence: 0.9232697

00:11:08.565 --> 00:11:09.705 called sim one.  
NOTE Confidence: 0.9651517

00:11:10.140 --> 00:11:11.020 I'm putting this one in  
NOTE Confidence: 0.9651517

00:11:11.020 --> 00:11:12.140 there because I I thought  
NOTE Confidence: 0.9651517

00:11:12.140 --> 00:11:13.280 it was kind of interesting  
NOTE Confidence: 0.9651517

00:11:13.340 --> 00:11:14.700 that, it was developed in  
NOTE Confidence: 0.9651517

00:11:14.700 --> 00:11:16.160 South in South California  
NOTE Confidence: 0.9991891

00:11:16.540 --> 00:11:17.520 to train anesthesiology  
NOTE Confidence: 0.9658531

00:11:18.059 --> 00:11:20.460 residents in endotracheal intubation and  
NOTE Confidence: 0.9658531

00:11:20.460 --> 00:11:22.995 then maintaining their anesthesia. So  
NOTE Confidence: 0.9658531

00:11:23.075 --> 00:11:23.975 So it has a computer,  
NOTE Confidence: 0.94016165

00:11:24.915 --> 00:11:26.434 a console and also an  
NOTE Confidence: 0.94016165

00:11:26.434 --> 00:11:28.195 anesthesia machine as well as  
NOTE Confidence: 0.94016165

00:11:28.195 --> 00:11:29.235 the mannequin that you can  
NOTE Confidence: 0.94016165

00:11:29.235 --> 00:11:29.735 see.  
NOTE Confidence: 0.9693604

00:11:30.115 --> 00:11:31.335 You could feel a heartbeat,  
NOTE Confidence: 0.9693604

00:11:31.475 --> 00:11:33.795 temporal carotid, pulses, blood pressure.

NOTE Confidence: 0.9693604

00:11:33.795 --> 00:11:35.075 So it was pretty realistic.

NOTE Confidence: 0.9693604

00:11:35.075 --> 00:11:35.714 If you look at it,

NOTE Confidence: 0.9693604

00:11:35.714 --> 00:11:36.835 it looks like a person,

NOTE Confidence: 0.9693604

00:11:36.835 --> 00:11:37.654 doesn't it?

NOTE Confidence: 0.9584124

00:11:38.019 --> 00:11:39.380 But the problem was it

NOTE Confidence: 0.9584124

00:11:39.380 --> 00:11:40.899 was so expensive, a hundred

NOTE Confidence: 0.9584124

00:11:40.899 --> 00:11:42.740 thousand dollars. So, that was

NOTE Confidence: 0.9584124

00:11:42.740 --> 00:11:44.420 not sustainable. So they only

NOTE Confidence: 0.9584124

00:11:44.420 --> 00:11:46.019 ever made one, didn't maintain

NOTE Confidence: 0.9584124

00:11:46.019 --> 00:11:47.380 it, no idea where it's

NOTE Confidence: 0.9584124

00:11:47.380 --> 00:11:47.880 now.

NOTE Confidence: 0.9947176

00:11:48.740 --> 00:11:49.860 This is the then they

NOTE Confidence: 0.9947176

00:11:50.100 --> 00:11:51.000 in the eighties,

NOTE Confidence: 0.9949591

00:11:51.315 --> 00:11:52.755 we started having the first

NOTE Confidence: 0.9949591

00:11:52.755 --> 00:11:54.595 computerized mannequins. That's also when

NOTE Confidence: 0.9949591

00:11:54.595 --> 00:11:56.375 we start seeing our first  
NOTE Confidence: 0.94454426

00:11:56.915 --> 00:11:58.675 medical simulation based literature coming  
NOTE Confidence: 0.94454426

00:11:58.675 --> 00:11:59.495 out. Like,  
NOTE Confidence: 0.96097755

00:11:59.875 --> 00:12:01.335 I would say most of  
NOTE Confidence: 0.96097755

00:12:01.395 --> 00:12:03.475 the relevant articles started coming  
NOTE Confidence: 0.96097755

00:12:03.475 --> 00:12:04.920 out around then. And here,  
NOTE Confidence: 0.96097755

00:12:04.920 --> 00:12:06.120 this guy looks familiar to  
NOTE Confidence: 0.96097755

00:12:06.120 --> 00:12:07.320 you, doesn't it? This is  
NOTE Confidence: 0.96097755

00:12:07.320 --> 00:12:09.179 Laertal's SimMan. It's a portable  
NOTE Confidence: 0.9554788

00:12:09.640 --> 00:12:11.640 simulator really making things so  
NOTE Confidence: 0.9554788

00:12:11.640 --> 00:12:13.160 much easier because now you  
NOTE Confidence: 0.9554788

00:12:13.160 --> 00:12:14.679 can take simulation into your  
NOTE Confidence: 0.9554788

00:12:14.679 --> 00:12:16.600 clinical setting, do something that's  
NOTE Confidence: 0.9554788

00:12:16.600 --> 00:12:18.200 called in situ simulations as  
NOTE Confidence: 0.9554788

00:12:18.200 --> 00:12:18.700 well.  
NOTE Confidence: 0.9614941

00:12:22.035 --> 00:12:23.315 See one, do one, teach

NOTE Confidence: 0.9614941

00:12:23.315 --> 00:12:24.934 one. Doesn't that sound familiar?

NOTE Confidence: 0.95361257

00:12:25.635 --> 00:12:26.515 It used to be in

NOTE Confidence: 0.95361257

00:12:26.515 --> 00:12:28.115 medicine, and to a certain

NOTE Confidence: 0.95361257

00:12:28.115 --> 00:12:29.975 degree, it probably still is

NOTE Confidence: 0.95361257

00:12:30.035 --> 00:12:31.415 that we use this approach

NOTE Confidence: 0.95361257

00:12:31.475 --> 00:12:32.434 of see one, do one,

NOTE Confidence: 0.95361257

00:12:32.434 --> 00:12:34.050 teach one. It's probably fine

NOTE Confidence: 0.95361257

00:12:34.050 --> 00:12:35.730 in some situations, and it

NOTE Confidence: 0.95361257

00:12:35.730 --> 00:12:37.570 works too. But it does

NOTE Confidence: 0.95361257

00:12:37.570 --> 00:12:39.190 put the patients at risk

NOTE Confidence: 0.95361257

00:12:39.330 --> 00:12:40.309 that the trainees

NOTE Confidence: 0.9833586

00:12:41.010 --> 00:12:42.290 learn on in their early

NOTE Confidence: 0.9833586

00:12:42.450 --> 00:12:43.730 so it it's really risky

NOTE Confidence: 0.9833586

00:12:43.730 --> 00:12:44.770 for the patients if the

NOTE Confidence: 0.9833586

00:12:44.770 --> 00:12:45.730 trainee is still in their

NOTE Confidence: 0.9833586

00:12:45.730 --> 00:12:47.170 early stages of learning. Right?

NOTE Confidence: 0.9833586

00:12:47.170 --> 00:12:47.970 Would you like to be

NOTE Confidence: 0.9833586

00:12:47.970 --> 00:12:48.630 this patient?

NOTE Confidence: 0.9645292

00:12:49.645 --> 00:12:50.765 Maybe not. Right. If the

NOTE Confidence: 0.9645292

00:12:50.765 --> 00:12:52.045 trainee hasn't really done this

NOTE Confidence: 0.9645292

00:12:52.045 --> 00:12:53.645 before and he just saw

NOTE Confidence: 0.9645292

00:12:53.645 --> 00:12:55.245 one and then did one

NOTE Confidence: 0.9645292

00:12:55.245 --> 00:12:56.525 and then taught one, maybe

NOTE Confidence: 0.9645292

00:12:56.525 --> 00:12:57.505 not the right approach.

NOTE Confidence: 0.9817833

00:12:58.285 --> 00:12:59.325 Because if that was the

NOTE Confidence: 0.9817833

00:12:59.325 --> 00:13:00.304 case with pilots,

NOTE Confidence: 0.9739153

00:13:00.890 --> 00:13:01.929 what if your pilot was

NOTE Confidence: 0.9739153

00:13:01.929 --> 00:13:03.050 trained this way? Would you

NOTE Confidence: 0.9739153

00:13:03.130 --> 00:13:04.090 how would you feel about

NOTE Confidence: 0.9739153

00:13:04.090 --> 00:13:05.470 getting on this plane? Right?

NOTE Confidence: 0.9739153

00:13:05.529 --> 00:13:06.570 There are reasons why the

NOTE Confidence: 0.9739153

00:13:06.570 --> 00:13:08.670 airline industry fortunately is considered

NOTE Confidence: 0.9739153

00:13:08.730 --> 00:13:10.170 pretty safe. And one of

NOTE Confidence: 0.9739153

00:13:10.170 --> 00:13:12.170 those reasons is probably their

NOTE Confidence: 0.9739153

00:13:12.170 --> 00:13:14.410 solid simulation program before a

NOTE Confidence: 0.9739153

00:13:14.410 --> 00:13:14.910 pilot

NOTE Confidence: 0.9390648

00:13:15.894 --> 00:13:17.274 even ever enters a cockpit,

NOTE Confidence: 0.9646338

00:13:17.894 --> 00:13:18.774 of a of a real

NOTE Confidence: 0.9646338

00:13:18.774 --> 00:13:20.135 plane. I must say, I

NOTE Confidence: 0.9646338

00:13:20.135 --> 00:13:21.334 don't know too many pilots.

NOTE Confidence: 0.9646338

00:13:21.334 --> 00:13:22.375 I don't know exactly how

NOTE Confidence: 0.9646338

00:13:22.375 --> 00:13:23.654 their training works, but I

NOTE Confidence: 0.9646338

00:13:23.654 --> 00:13:24.454 sure hope that they do

NOTE Confidence: 0.9646338

00:13:24.454 --> 00:13:25.815 a lot of simulation training

NOTE Confidence: 0.9646338

00:13:25.815 --> 00:13:27.415 as we as we all

NOTE Confidence: 0.9646338

00:13:27.415 --> 00:13:27.915 think.

NOTE Confidence: 0.9905441

00:13:30.320 --> 00:13:31.360 So now how do we  
NOTE Confidence: 0.9905441

00:13:31.360 --> 00:13:33.940 apply simulation based medical education  
NOTE Confidence: 0.9905441

00:13:34.240 --> 00:13:35.540 in diverse  
NOTE Confidence: 0.98593336

00:13:36.000 --> 00:13:38.160 clinical settings? So here we're  
NOTE Confidence: 0.98593336

00:13:38.160 --> 00:13:39.120 going to dive into a  
NOTE Confidence: 0.98593336

00:13:39.120 --> 00:13:40.339 little bit of background,  
NOTE Confidence: 0.99601996

00:13:41.279 --> 00:13:43.140 of simulation training. So  
NOTE Confidence: 0.78038144

00:13:44.265 --> 00:13:45.725 simulation and medical education.  
NOTE Confidence: 0.984193

00:13:46.184 --> 00:13:48.105 What types of educational methods  
NOTE Confidence: 0.984193

00:13:48.105 --> 00:13:49.225 could we think of? So  
NOTE Confidence: 0.984193

00:13:49.225 --> 00:13:49.965 let's see.  
NOTE Confidence: 0.99181676

00:13:51.305 --> 00:13:52.425 We can do what I  
NOTE Confidence: 0.99181676

00:13:52.425 --> 00:13:54.905 would call here traditional medical  
NOTE Confidence: 0.99181676

00:13:54.905 --> 00:13:56.184 education. Let's just call it  
NOTE Confidence: 0.99181676

00:13:56.184 --> 00:13:57.545 that for now. That would  
NOTE Confidence: 0.99181676

00:13:57.545 --> 00:13:58.045 include

NOTE Confidence: 0.98942477  
00:13:58.790 --> 00:14:00.009 lectures, workshops,  
NOTE Confidence: 0.85270745  
00:14:00.629 --> 00:14:01.689 bedside teaching,  
NOTE Confidence: 0.9295051  
00:14:02.149 --> 00:14:03.110 also the see one, do  
NOTE Confidence: 0.9295051  
00:14:03.110 --> 00:14:04.550 one, teach one approach as  
NOTE Confidence: 0.9295051  
00:14:04.550 --> 00:14:05.529 we mentioned above.  
NOTE Confidence: 0.95026606  
00:14:06.230 --> 00:14:07.449 Then we can  
NOTE Confidence: 0.9369567  
00:14:07.910 --> 00:14:09.829 start integrating simulation into our  
NOTE Confidence: 0.9369567  
00:14:09.829 --> 00:14:11.529 medical education strategy.  
NOTE Confidence: 0.9638759  
00:14:12.345 --> 00:14:13.945 That way, competency can be  
NOTE Confidence: 0.9638759  
00:14:13.945 --> 00:14:15.005 achieved before  
NOTE Confidence: 0.989926  
00:14:15.385 --> 00:14:17.404 the learner reaches the patient.  
NOTE Confidence: 0.9878076  
00:14:17.865 --> 00:14:19.305 At that at the same  
NOTE Confidence: 0.9878076  
00:14:19.305 --> 00:14:21.805 time, simulations can still match  
NOTE Confidence: 0.9996167  
00:14:22.345 --> 00:14:23.404 real life scenarios  
NOTE Confidence: 0.98605645  
00:14:23.785 --> 00:14:24.899 as well. Right? So this  
NOTE Confidence: 0.98605645

00:14:24.899 --> 00:14:25.860 would make me feel a  
NOTE Confidence: 0.98605645

00:14:25.860 --> 00:14:26.980 little bit better as a  
NOTE Confidence: 0.98605645

00:14:26.980 --> 00:14:28.420 patient or also if one  
NOTE Confidence: 0.98605645

00:14:28.420 --> 00:14:29.700 of my loved ones is  
NOTE Confidence: 0.98605645

00:14:29.700 --> 00:14:31.060 a patient. Right? So lectures  
NOTE Confidence: 0.98605645

00:14:31.060 --> 00:14:32.420 and workshops are great. We're  
NOTE Confidence: 0.98605645

00:14:32.420 --> 00:14:33.860 doing lecture today, which is  
NOTE Confidence: 0.98605645

00:14:33.860 --> 00:14:34.360 fine.  
NOTE Confidence: 0.9771215

00:14:35.700 --> 00:14:36.660 But, of course, if you  
NOTE Confidence: 0.9771215

00:14:36.660 --> 00:14:37.640 integrate simulations  
NOTE Confidence: 0.94689655

00:14:38.725 --> 00:14:40.405 into your training, that might  
NOTE Confidence: 0.94689655

00:14:40.405 --> 00:14:41.765 actually be beneficial, and we'll  
NOTE Confidence: 0.94689655

00:14:41.765 --> 00:14:43.525 talk about some logistics supporting  
NOTE Confidence: 0.94689655

00:14:43.525 --> 00:14:44.585 that later on.  
NOTE Confidence: 0.99926865

00:14:45.445 --> 00:14:47.305 And then within our simulation  
NOTE Confidence: 0.99926865

00:14:47.525 --> 00:14:48.885 experience, we can create an

NOTE Confidence: 0.99926865

00:14:48.885 --> 00:14:51.145 environment for experiential learning

NOTE Confidence: 0.94367844

00:14:51.620 --> 00:14:53.380 that will allow hopefully for

NOTE Confidence: 0.94367844

00:14:53.380 --> 00:14:56.200 concrete experiences for participants potentially

NOTE Confidence: 0.94367844

00:14:56.260 --> 00:14:57.640 with active feedback,

NOTE Confidence: 0.91793233

00:14:58.100 --> 00:14:59.320 reflections, and debriefings.

NOTE Confidence: 0.9911024

00:14:59.860 --> 00:15:01.459 I would suggest actually more

NOTE Confidence: 0.9911024

00:15:01.459 --> 00:15:03.060 debriefings than feedback. We'll talk

NOTE Confidence: 0.9911024

00:15:03.060 --> 00:15:04.260 about that later. And there's

NOTE Confidence: 0.9911024

00:15:04.260 --> 00:15:05.620 also an option for being

NOTE Confidence: 0.9911024

00:15:05.620 --> 00:15:06.120 videotaped

NOTE Confidence: 0.8055736

00:15:07.025 --> 00:15:07.605 but you

NOTE Confidence: 0.9847471

00:15:08.065 --> 00:15:09.125 can sort of

NOTE Confidence: 0.9955922

00:15:10.145 --> 00:15:11.985 see yourself acting in the

NOTE Confidence: 0.9955922

00:15:11.985 --> 00:15:13.125 real scenario

NOTE Confidence: 0.979426

00:15:13.665 --> 00:15:15.425 and give yourself feedback. Right?

NOTE Confidence: 0.979426

00:15:15.425 --> 00:15:16.385 Because you could see what

NOTE Confidence: 0.979426

00:15:16.385 --> 00:15:17.605 you did or didn't do.

NOTE Confidence: 0.979426

00:15:17.745 --> 00:15:19.265 I personally rarely use it

NOTE Confidence: 0.979426

00:15:19.265 --> 00:15:20.085 in my debriefings,

NOTE Confidence: 0.93172127

00:15:20.640 --> 00:15:21.840 but of course, it depends

NOTE Confidence: 0.93172127

00:15:21.840 --> 00:15:22.980 on your learning objectives.

NOTE Confidence: 0.8182921

00:15:23.520 --> 00:15:24.500 Most of my

NOTE Confidence: 0.9678585

00:15:24.960 --> 00:15:26.240 debriefings are actually done in

NOTE Confidence: 0.9678585

00:15:26.240 --> 00:15:27.780 situ, so I don't usually

NOTE Confidence: 0.9709727

00:15:28.160 --> 00:15:29.300 use video debriefings,

NOTE Confidence: 0.9632525

00:15:29.760 --> 00:15:30.960 but maybe some others have

NOTE Confidence: 0.9632525

00:15:30.960 --> 00:15:32.160 and we can discuss it

NOTE Confidence: 0.9632525

00:15:32.160 --> 00:15:33.360 later if you'd like. It's

NOTE Confidence: 0.9632525

00:15:33.360 --> 00:15:34.400 a whole body of literature

NOTE Confidence: 0.9632525

00:15:34.400 --> 00:15:36.180 on video debriefings as well.

NOTE Confidence: 0.97142506

00:15:38.024 --> 00:15:39.964 Let's talk about some uniquenessness

NOTE Confidence: 0.96181434

00:15:40.345 --> 00:15:41.564 in medical education

NOTE Confidence: 0.98989516

00:15:42.425 --> 00:15:43.944 and training, which is what

NOTE Confidence: 0.98989516

00:15:43.944 --> 00:15:45.225 all of us do. Right?

NOTE Confidence: 0.98989516

00:15:45.225 --> 00:15:46.125 So first,

NOTE Confidence: 0.93342936

00:15:46.584 --> 00:15:47.464 most of the times you

NOTE Confidence: 0.93342936

00:15:47.464 --> 00:15:49.144 will be interacting with adult

NOTE Confidence: 0.93342936

00:15:49.144 --> 00:15:49.644 learners,

NOTE Confidence: 0.99720603

00:15:50.040 --> 00:15:52.120 and they will require very

NOTE Confidence: 0.99720603

00:15:52.120 --> 00:15:54.360 different teaching approaches than children

NOTE Confidence: 0.99720603

00:15:54.360 --> 00:15:56.060 and adolescents might need.

NOTE Confidence: 0.96666825

00:15:57.080 --> 00:15:58.839 I say that not teaching

NOTE Confidence: 0.96666825

00:15:58.839 --> 00:16:00.600 children and adolescents. It might

NOTE Confidence: 0.96666825

00:16:00.600 --> 00:16:01.560 be that there is more

NOTE Confidence: 0.96666825

00:16:01.560 --> 00:16:02.680 overlap than we know, so

NOTE Confidence: 0.96666825

00:16:02.680 --> 00:16:03.640 let's get out of our

NOTE Confidence: 0.96666825

00:16:03.640 --> 00:16:05.019 silos more in the future.  
NOTE Confidence: 0.9401934

00:16:05.515 --> 00:16:06.575 As an educator,  
NOTE Confidence: 0.99750036

00:16:07.035 --> 00:16:08.575 for an adult learner,  
NOTE Confidence: 0.9880009

00:16:09.195 --> 00:16:10.154 you should aim for being  
NOTE Confidence: 0.9880009

00:16:10.154 --> 00:16:10.895 a facilitator,  
NOTE Confidence: 0.9975808

00:16:11.274 --> 00:16:13.055 not necessarily a didactic  
NOTE Confidence: 0.94314736

00:16:13.834 --> 00:16:15.274 teacher, although there is a  
NOTE Confidence: 0.94314736

00:16:15.274 --> 00:16:16.154 place and time for that  
NOTE Confidence: 0.94314736

00:16:16.154 --> 00:16:17.520 as well. Of course, It's  
NOTE Confidence: 0.94314736

00:16:17.520 --> 00:16:18.800 really important to spend some  
NOTE Confidence: 0.94314736

00:16:18.800 --> 00:16:20.720 time. So basically, the learners  
NOTE Confidence: 0.94314736

00:16:20.720 --> 00:16:22.320 here to learn. They're self  
NOTE Confidence: 0.94314736

00:16:22.320 --> 00:16:23.860 determined most of the time.  
NOTE Confidence: 0.98643994

00:16:24.720 --> 00:16:26.080 They want to develop as  
NOTE Confidence: 0.98643994

00:16:26.080 --> 00:16:27.680 individuals. Right? And I can  
NOTE Confidence: 0.98643994

00:16:27.680 --> 00:16:28.720 relate to that as a

NOTE Confidence: 0.98643994  
00:16:28.800 --> 00:16:30.160 as an adult learner myself.  
NOTE Confidence: 0.98643994  
00:16:30.160 --> 00:16:31.200 Right? You don't want to  
NOTE Confidence: 0.98643994  
00:16:31.200 --> 00:16:32.355 just learn a skill. You  
NOTE Confidence: 0.98643994  
00:16:32.355 --> 00:16:33.635 want to become better at  
NOTE Confidence: 0.98643994  
00:16:33.635 --> 00:16:34.535 what you're doing.  
NOTE Confidence: 0.9729426  
00:16:37.555 --> 00:16:38.775 If you are  
NOTE Confidence: 0.95624655  
00:16:39.315 --> 00:16:41.015 an educator for adult learners,  
NOTE Confidence: 0.95624655  
00:16:41.315 --> 00:16:42.515 as I just mentioned, you're  
NOTE Confidence: 0.95624655  
00:16:42.515 --> 00:16:43.955 a facilitator more than just  
NOTE Confidence: 0.95624655  
00:16:43.955 --> 00:16:44.970 a teacher that is just  
NOTE Confidence: 0.95624655  
00:16:44.970 --> 00:16:46.009 telling people what to do.  
NOTE Confidence: 0.95624655  
00:16:46.009 --> 00:16:47.209 It's sometimes tempting to do.  
NOTE Confidence: 0.95624655  
00:16:47.209 --> 00:16:48.810 Right? Especially if we're in  
NOTE Confidence: 0.95624655  
00:16:48.810 --> 00:16:49.769 a rush at the bedside,  
NOTE Confidence: 0.95624655  
00:16:49.769 --> 00:16:50.889 I just wanna say what  
NOTE Confidence: 0.95624655

00:16:50.889 --> 00:16:51.850 what needs to be done,  
NOTE Confidence: 0.95624655

00:16:51.850 --> 00:16:53.209 which is fine too. In  
NOTE Confidence: 0.95624655

00:16:53.209 --> 00:16:54.750 simulation, we try to facilitate  
NOTE Confidence: 0.95624655

00:16:54.810 --> 00:16:56.730 instead of just tell what  
NOTE Confidence: 0.95624655

00:16:56.730 --> 00:16:57.550 needs to happen.  
NOTE Confidence: 0.9311457

00:16:58.745 --> 00:17:00.365 I will say for curriculum  
NOTE Confidence: 0.9311457

00:17:00.505 --> 00:17:02.025 development, I actually just met  
NOTE Confidence: 0.9311457

00:17:02.025 --> 00:17:03.165 with, Daniella,  
NOTE Confidence: 0.94396794

00:17:04.185 --> 00:17:04.984 last week and we were  
NOTE Confidence: 0.94396794

00:17:04.984 --> 00:17:06.585 talking about curriculum development for  
NOTE Confidence: 0.94396794

00:17:06.585 --> 00:17:08.185 a moment. It is really  
NOTE Confidence: 0.94396794

00:17:08.185 --> 00:17:09.965 important to spend some time  
NOTE Confidence: 0.8773759

00:17:10.440 --> 00:17:12.279 developing your curriculum. And if  
NOTE Confidence: 0.8773759

00:17:12.279 --> 00:17:13.260 you don't have financial  
NOTE Confidence: 0.9300674

00:17:13.960 --> 00:17:15.659 knowledge in curriculum development,  
NOTE Confidence: 0.92504394

00:17:15.960 --> 00:17:17.399 phone a friend like Lindsey

NOTE Confidence: 0.92504394

00:17:17.399 --> 00:17:18.539 Johnson and

NOTE Confidence: 0.94258744

00:17:18.840 --> 00:17:21.000 Melissa Langham or others, on

NOTE Confidence: 0.94258744

00:17:21.000 --> 00:17:22.519 this call, actually, who have

NOTE Confidence: 0.94258744

00:17:22.519 --> 00:17:24.940 extensive experience in curriculum development.

NOTE Confidence: 0.99954265

00:17:25.414 --> 00:17:26.695 It's really worth the extra

NOTE Confidence: 0.99954265

00:17:26.695 --> 00:17:27.895 mile to make sure it's

NOTE Confidence: 0.99954265

00:17:27.895 --> 00:17:28.554 done well

NOTE Confidence: 0.9982537

00:17:29.095 --> 00:17:30.554 based on known frameworks.

NOTE Confidence: 0.9723087

00:17:30.934 --> 00:17:32.135 You don't need to reinvent

NOTE Confidence: 0.9723087

00:17:32.135 --> 00:17:33.434 the wheel, and you really

NOTE Confidence: 0.9723087

00:17:33.494 --> 00:17:34.934 shouldn't reinvent the wheel because

NOTE Confidence: 0.9723087

00:17:34.934 --> 00:17:36.054 you might not be inventing

NOTE Confidence: 0.9723087

00:17:36.054 --> 00:17:37.015 it the way they should

NOTE Confidence: 0.9723087

00:17:37.015 --> 00:17:37.674 be invented.

NOTE Confidence: 0.98297644

00:17:38.360 --> 00:17:40.360 Lastly, feedback and debriefing, really

NOTE Confidence: 0.98297644

00:17:40.360 --> 00:17:41.260 important skills,  
NOTE Confidence: 0.9984093

00:17:41.880 --> 00:17:43.240 to also dedicate some time  
NOTE Confidence: 0.9984093

00:17:43.240 --> 00:17:44.540 to exploring and  
NOTE Confidence: 0.957292

00:17:45.240 --> 00:17:47.000 actually getting more education about.  
NOTE Confidence: 0.957292

00:17:47.000 --> 00:17:48.440 I would say, for me,  
NOTE Confidence: 0.957292

00:17:48.440 --> 00:17:49.480 debriefing is the is the  
NOTE Confidence: 0.957292

00:17:49.480 --> 00:17:51.080 most important thing about my  
NOTE Confidence: 0.957292

00:17:51.080 --> 00:17:52.140 simulation experiences.  
NOTE Confidence: 0.8991951

00:17:52.975 --> 00:17:54.355 But, of course, everybody,  
NOTE Confidence: 0.99915457

00:17:54.975 --> 00:17:55.794 does it differently.  
NOTE Confidence: 0.9932134

00:17:56.095 --> 00:17:57.534 There's so much literature out  
NOTE Confidence: 0.9932134

00:17:57.534 --> 00:17:58.914 there. There are people dedicating  
NOTE Confidence: 0.9932134

00:17:58.975 --> 00:18:00.994 their whole careers to specific  
NOTE Confidence: 0.9425669

00:18:01.455 --> 00:18:03.075 debriefing styles, so  
NOTE Confidence: 0.9963444

00:18:03.375 --> 00:18:04.914 look into it. It's fun.  
NOTE Confidence: 0.96775204

00:18:08.680 --> 00:18:10.359 Alright. So then there it

NOTE Confidence: 0.96775204

00:18:10.359 --> 00:18:12.119 is important specifically for your

NOTE Confidence: 0.96775204

00:18:12.119 --> 00:18:13.020 adult learners

NOTE Confidence: 0.9144997

00:18:13.400 --> 00:18:15.240 that you repeat skills and

NOTE Confidence: 0.9144997

00:18:15.240 --> 00:18:17.560 practice them over on over

NOTE Confidence: 0.9144997

00:18:17.560 --> 00:18:20.220 again. Right? So because repetition

NOTE Confidence: 0.9144997

00:18:20.280 --> 00:18:21.900 enhances your skill set acquisition.

NOTE Confidence: 0.9144997

00:18:22.119 --> 00:18:23.580 For example, with an intubation.

NOTE Confidence: 0.9144997

00:18:23.800 --> 00:18:25.955 Right? Your Your technical skill

NOTE Confidence: 0.99534833

00:18:26.415 --> 00:18:27.795 is how to intubate.

NOTE Confidence: 0.9994521

00:18:28.415 --> 00:18:29.795 Your cognitive skill

NOTE Confidence: 0.9973127

00:18:30.494 --> 00:18:30.994 is

NOTE Confidence: 0.97063273

00:18:31.295 --> 00:18:32.895 when to intubate, for example.

NOTE Confidence: 0.97063273

00:18:32.895 --> 00:18:34.895 Right? And the behavioral skill

NOTE Confidence: 0.97063273

00:18:34.895 --> 00:18:36.415 would be the coordination of

NOTE Confidence: 0.97063273

00:18:36.415 --> 00:18:38.275 your team doing the respiratory

NOTE Confidence: 0.97063273

00:18:38.415 --> 00:18:39.310 arrest. So now you're not  
NOTE Confidence: 0.97063273

00:18:39.350 --> 00:18:40.869 you're going away from just  
NOTE Confidence: 0.97063273

00:18:40.869 --> 00:18:41.369 your,  
NOTE Confidence: 0.9823201

00:18:41.830 --> 00:18:43.530 plain task of the intubation  
NOTE Confidence: 0.9823201

00:18:43.750 --> 00:18:44.950 technique. How do you do  
NOTE Confidence: 0.9823201

00:18:44.950 --> 00:18:46.310 it? You're going away from  
NOTE Confidence: 0.9823201

00:18:46.310 --> 00:18:47.930 that and you're moving towards  
NOTE Confidence: 0.9823201

00:18:47.990 --> 00:18:49.690 integrating that into your scenario.  
NOTE Confidence: 0.9790775

00:18:52.345 --> 00:18:54.264 The safe learning environment. This  
NOTE Confidence: 0.9790775

00:18:54.264 --> 00:18:56.105 is particularly important for the  
NOTE Confidence: 0.9790775

00:18:56.105 --> 00:18:56.924 more experienced  
NOTE Confidence: 0.97301537

00:18:57.384 --> 00:18:58.825 learner. There might be a  
NOTE Confidence: 0.97301537

00:18:58.825 --> 00:19:00.345 fear of failure being watched  
NOTE Confidence: 0.97301537

00:19:00.345 --> 00:19:02.044 while mistakes happen. And  
NOTE Confidence: 0.98584586

00:19:02.505 --> 00:19:03.884 we have actually, for example,  
NOTE Confidence: 0.9632721

00:19:04.279 --> 00:19:05.799 just had a faculty procedure

NOTE Confidence: 0.9632721

00:19:05.799 --> 00:19:07.320 day for our pediatric emergency

NOTE Confidence: 0.9632721

00:19:07.320 --> 00:19:08.380 medicine attendings,

NOTE Confidence: 0.99465615

00:19:09.240 --> 00:19:11.100 and we really carefully considered

NOTE Confidence: 0.99465615

00:19:11.240 --> 00:19:13.320 psychological and emotional safety in

NOTE Confidence: 0.99465615

00:19:13.320 --> 00:19:15.100 the planning process. For example,

NOTE Confidence: 0.99465615

00:19:15.320 --> 00:19:17.500 we invited specialists to teach

NOTE Confidence: 0.99465615

00:19:17.720 --> 00:19:19.179 the procedure to our learners.

NOTE Confidence: 0.9742535

00:19:19.555 --> 00:19:20.755 So the attendings, in our

NOTE Confidence: 0.9742535

00:19:20.755 --> 00:19:21.255 case,

NOTE Confidence: 0.99964523

00:19:22.275 --> 00:19:23.494 could feel comfortable

NOTE Confidence: 0.97133255

00:19:24.035 --> 00:19:25.395 not knowing something or doing

NOTE Confidence: 0.97133255

00:19:25.395 --> 00:19:27.015 something maybe not correctly.

NOTE Confidence: 0.97216713

00:19:27.315 --> 00:19:28.515 We also did not invite

NOTE Confidence: 0.97216713

00:19:28.515 --> 00:19:30.215 any trainees to these sessions

NOTE Confidence: 0.97216713

00:19:30.435 --> 00:19:31.795 even though there was a

NOTE Confidence: 0.97216713

00:19:31.795 --> 00:19:33.315 lot of interest on the  
NOTE Confidence: 0.97216713

00:19:33.315 --> 00:19:35.040 trainee side, actually, of course,  
NOTE Confidence: 0.97216713

00:19:35.119 --> 00:19:36.640 to see their attendings exploring  
NOTE Confidence: 0.97216713

00:19:36.640 --> 00:19:38.160 the edges of their skills  
NOTE Confidence: 0.97216713

00:19:38.160 --> 00:19:38.820 and knowledge.  
NOTE Confidence: 0.881956

00:19:39.840 --> 00:19:41.440 But this really lacked allowed  
NOTE Confidence: 0.881956

00:19:41.440 --> 00:19:43.060 for a very relaxed approach,  
NOTE Confidence: 0.97956884

00:19:43.600 --> 00:19:44.480 and I would say it  
NOTE Confidence: 0.97956884

00:19:44.480 --> 00:19:45.840 went really well. I know  
NOTE Confidence: 0.97956884

00:19:45.840 --> 00:19:47.359 that, miss Melissa was there  
NOTE Confidence: 0.97956884

00:19:47.359 --> 00:19:48.740 as well and and others.  
NOTE Confidence: 0.97009087

00:19:51.335 --> 00:19:53.175 Of course, ultimately, that will  
NOTE Confidence: 0.97009087

00:19:53.175 --> 00:19:55.035 improve, hopefully, patient safety  
NOTE Confidence: 0.9982593

00:19:55.415 --> 00:19:56.535 and the quality of our  
NOTE Confidence: 0.9982593

00:19:56.535 --> 00:19:57.035 care.  
NOTE Confidence: 0.9890962

00:19:58.935 --> 00:20:01.255 So does simulation education actually

NOTE Confidence: 0.9890962

00:20:01.255 --> 00:20:02.715 work? Yes. It does.

NOTE Confidence: 0.99877435

00:20:03.655 --> 00:20:04.535 And I don't just say

NOTE Confidence: 0.99877435

00:20:04.535 --> 00:20:04.980 that.

NOTE Confidence: 0.96785945

00:20:05.380 --> 00:20:06.580 This article is actually an

NOTE Confidence: 0.96785945

00:20:06.580 --> 00:20:08.340 article that I, that I

NOTE Confidence: 0.96785945

00:20:08.340 --> 00:20:09.380 recommended reading.

NOTE Confidence: 0.9977821

00:20:10.179 --> 00:20:11.460 It is something that I

NOTE Confidence: 0.9977821

00:20:11.460 --> 00:20:13.059 usually recommend reading when I'm

NOTE Confidence: 0.9977821

00:20:13.059 --> 00:20:13.559 doing

NOTE Confidence: 0.98786724

00:20:13.859 --> 00:20:15.619 review my review activities for

NOTE Confidence: 0.98786724

00:20:15.619 --> 00:20:16.359 the flagship

NOTE Confidence: 0.8199713

00:20:16.660 --> 00:20:18.419 chip journal of the Society

NOTE Confidence: 0.8199713

00:20:18.419 --> 00:20:19.799 for Simulation Health Care.

NOTE Confidence: 0.97193074

00:20:20.345 --> 00:20:21.625 This was done by Cook

NOTE Confidence: 0.97193074

00:20:21.625 --> 00:20:23.565 et al. They looked

NOTE Confidence: 0.9849797

00:20:24.744 --> 00:20:26.425 at, does simulation work? They  
NOTE Confidence: 0.9849797

00:20:26.425 --> 00:20:27.805 looked at all those articles  
NOTE Confidence: 0.9849797

00:20:27.865 --> 00:20:29.885 where we did simulation versus  
NOTE Confidence: 0.9849797

00:20:30.105 --> 00:20:30.605 nothing  
NOTE Confidence: 0.9866018

00:20:30.905 --> 00:20:32.345 and wanted to see, does  
NOTE Confidence: 0.9866018

00:20:32.345 --> 00:20:34.105 simulation training make your training  
NOTE Confidence: 0.9866018

00:20:34.105 --> 00:20:35.549 better? They looked at almost  
NOTE Confidence: 0.9866018

00:20:35.549 --> 00:20:36.929 eleven thousand articles,  
NOTE Confidence: 0.9428905

00:20:37.950 --> 00:20:39.070 a hundred and thirty seven  
NOTE Confidence: 0.9428905

00:20:39.070 --> 00:20:40.210 randomized studies,  
NOTE Confidence: 0.9988744

00:20:42.509 --> 00:20:43.009 enrolling  
NOTE Confidence: 0.9625633

00:20:43.789 --> 00:20:45.389 thirty about thirty five thousand  
NOTE Confidence: 0.9625633

00:20:45.389 --> 00:20:46.750 trainees. So huge. And as  
NOTE Confidence: 0.9625633

00:20:46.750 --> 00:20:47.950 you can see, don't look  
NOTE Confidence: 0.9625633

00:20:47.950 --> 00:20:48.990 at this in detail, but  
NOTE Confidence: 0.9625633

00:20:48.990 --> 00:20:50.455 you can see that, the

NOTE Confidence: 0.9625633  
00:20:50.455 --> 00:20:51.735 left side would favor the  
NOTE Confidence: 0.9625633  
00:20:51.735 --> 00:20:52.235 intervention.  
NOTE Confidence: 0.97023785  
00:20:52.615 --> 00:20:53.815 The other one favors the  
NOTE Confidence: 0.97023785  
00:20:53.815 --> 00:20:55.355 simulation. You can see that  
NOTE Confidence: 0.97023785  
00:20:55.494 --> 00:20:57.035 pretty much all the studies  
NOTE Confidence: 0.97023785  
00:20:57.255 --> 00:20:58.775 were favoring the simulation. The  
NOTE Confidence: 0.97023785  
00:20:58.775 --> 00:21:00.295 effect of that was actually  
NOTE Confidence: 0.97023785  
00:21:00.295 --> 00:21:01.975 the stronger, the higher quality,  
NOTE Confidence: 0.97023785  
00:21:01.975 --> 00:21:03.175 and the larger the study  
NOTE Confidence: 0.97023785  
00:21:03.175 --> 00:21:05.150 was. So, it's really,  
NOTE Confidence: 0.9989979  
00:21:05.930 --> 00:21:06.830 very impressive.  
NOTE Confidence: 0.9693785  
00:21:07.530 --> 00:21:08.810 So the essence of the  
NOTE Confidence: 0.9693785  
00:21:08.810 --> 00:21:10.170 conclusion of this article is  
NOTE Confidence: 0.9693785  
00:21:10.170 --> 00:21:11.869 first, don't do more studies  
NOTE Confidence: 0.9693785  
00:21:11.930 --> 00:21:13.210 just looking at,  
NOTE Confidence: 0.96014625

00:21:13.770 --> 00:21:15.630 at no intervention. So simulation  
NOTE Confidence: 0.96014625

00:21:15.770 --> 00:21:17.284 does something. And,  
NOTE Confidence: 0.9800943

00:21:17.765 --> 00:21:18.645 and we need to really  
NOTE Confidence: 0.9800943

00:21:18.645 --> 00:21:19.865 elevate the sophistication  
NOTE Confidence: 0.98707104

00:21:20.244 --> 00:21:21.365 of of looking into our  
NOTE Confidence: 0.98707104

00:21:21.365 --> 00:21:22.905 simulation based research.  
NOTE Confidence: 0.978106

00:21:23.605 --> 00:21:25.365 The largest effect outcomes were  
NOTE Confidence: 0.978106

00:21:25.365 --> 00:21:27.705 seen in knowledge, skills, behaviors,  
NOTE Confidence: 0.92717606

00:21:28.005 --> 00:21:29.785 and moderate inpatient outcomes.  
NOTE Confidence: 0.9571151

00:21:30.640 --> 00:21:32.420 As many of the simulation  
NOTE Confidence: 0.9571151

00:21:32.559 --> 00:21:34.080 researchers on this call know,  
NOTE Confidence: 0.9571151

00:21:34.080 --> 00:21:35.200 it's the holy grail to  
NOTE Confidence: 0.9571151

00:21:35.200 --> 00:21:36.580 get to the patient outcomes.  
NOTE Confidence: 0.9571151

00:21:36.720 --> 00:21:37.760 So first, we need to  
NOTE Confidence: 0.9571151

00:21:37.760 --> 00:21:38.660 focus on,  
NOTE Confidence: 0.99988997

00:21:39.359 --> 00:21:39.859 Kirkpatrick

NOTE Confidence: 0.9447525

00:21:40.160 --> 00:21:41.679 level one and two, which

NOTE Confidence: 0.9447525

00:21:41.679 --> 00:21:43.300 would be knowledge, skills, behaviors

NOTE Confidence: 0.9447525

00:21:43.440 --> 00:21:44.179 to see,

NOTE Confidence: 0.93033653

00:21:45.424 --> 00:21:46.385 you know, that we improve

NOTE Confidence: 0.93033653

00:21:46.385 --> 00:21:47.125 those first.

NOTE Confidence: 0.9957722

00:21:50.145 --> 00:21:50.645 Alright.

NOTE Confidence: 0.95838684

00:21:51.105 --> 00:21:52.385 Stay with me here. We're

NOTE Confidence: 0.95838684

00:21:52.385 --> 00:21:53.744 going to dive more into

NOTE Confidence: 0.95838684

00:21:53.744 --> 00:21:55.505 theory learning theory. It'll get

NOTE Confidence: 0.95838684

00:21:55.505 --> 00:21:56.784 lighter later on. I promise.

NOTE Confidence: 0.95838684

00:21:56.784 --> 00:21:57.744 But this is actually really

NOTE Confidence: 0.95838684

00:21:57.744 --> 00:21:59.284 cool and interesting. So,

NOTE Confidence: 0.9888117

00:21:59.740 --> 00:22:01.200 let's do this together. Okay?

NOTE Confidence: 0.9888117

00:22:01.260 --> 00:22:02.539 Let's talk about some learning

NOTE Confidence: 0.9888117

00:22:02.539 --> 00:22:04.059 theories that you can apply

NOTE Confidence: 0.9888117

00:22:04.059 --> 00:22:06.000 in your simulation based education.

NOTE Confidence: 0.9718418

00:22:08.140 --> 00:22:09.440 So we have the behaviorism

NOTE Confidence: 0.9718418

00:22:09.659 --> 00:22:11.760 approach, cognitivism, and constructivism.

NOTE Confidence: 0.97611797

00:22:12.925 --> 00:22:14.625 The initial work in simulation

NOTE Confidence: 0.97611797

00:22:14.685 --> 00:22:16.145 based education focused

NOTE Confidence: 0.9906421

00:22:16.445 --> 00:22:18.625 mostly on the behaviorist approach.

NOTE Confidence: 0.9777147

00:22:19.085 --> 00:22:20.365 So you place people in

NOTE Confidence: 0.9777147

00:22:20.365 --> 00:22:21.885 a simulated environment and when

NOTE Confidence: 0.9777147

00:22:21.885 --> 00:22:23.085 they make mistakes, you give

NOTE Confidence: 0.9777147

00:22:23.085 --> 00:22:24.765 them feedback and then they

NOTE Confidence: 0.9777147

00:22:24.765 --> 00:22:25.265 correct

NOTE Confidence: 0.9827284

00:22:25.570 --> 00:22:27.010 their actions. Right? So that

NOTE Confidence: 0.9827284

00:22:27.010 --> 00:22:28.050 would be that first box

NOTE Confidence: 0.9827284

00:22:28.050 --> 00:22:29.190 that you can see here.

NOTE Confidence: 0.9883846

00:22:30.690 --> 00:22:32.290 With the cognitive revolution in

NOTE Confidence: 0.9883846

00:22:32.290 --> 00:22:33.490 the sixties, there was more

NOTE Confidence: 0.9883846

00:22:33.490 --> 00:22:35.350 and more focus placed on,

NOTE Confidence: 0.9747787

00:22:35.810 --> 00:22:37.650 the cognition behind your behaviors

NOTE Confidence: 0.9747787

00:22:37.650 --> 00:22:38.930 and decisions. Like, why did

NOTE Confidence: 0.9747787

00:22:38.930 --> 00:22:39.670 you do it?

NOTE Confidence: 0.9907818

00:22:40.195 --> 00:22:41.875 We'll talk about this actually

NOTE Confidence: 0.9907818

00:22:41.875 --> 00:22:43.155 more when we move into

NOTE Confidence: 0.9907818

00:22:43.155 --> 00:22:44.455 the feedback debriefing,

NOTE Confidence: 0.94711185

00:22:45.995 --> 00:22:47.395 the part of this talk

NOTE Confidence: 0.94711185

00:22:47.395 --> 00:22:48.994 later on. So this is

NOTE Confidence: 0.94711185

00:22:48.994 --> 00:22:50.595 really more exploring why did

NOTE Confidence: 0.94711185

00:22:50.595 --> 00:22:51.815 you do certain things.

NOTE Confidence: 0.99092686

00:22:52.170 --> 00:22:52.910 The constructivism

NOTE Confidence: 0.99156904

00:22:53.450 --> 00:22:55.850 refers to learning to your

NOTE Confidence: 0.99156904

00:22:55.850 --> 00:22:57.930 individual experience and interacting in

NOTE Confidence: 0.99156904

00:22:57.930 --> 00:22:59.450 the clinical environment. So this

NOTE Confidence: 0.99156904

00:22:59.450 --> 00:23:00.670 is very learner centric.  
NOTE Confidence: 0.94973785

00:23:01.050 --> 00:23:02.490 And so the learners here  
NOTE Confidence: 0.94973785

00:23:02.490 --> 00:23:03.690 built their built on their  
NOTE Confidence: 0.94973785

00:23:03.690 --> 00:23:05.070 own previous experiences.  
NOTE Confidence: 0.96236265

00:23:07.885 --> 00:23:09.325 Often the problem is making  
NOTE Confidence: 0.96236265

00:23:09.325 --> 00:23:10.525 sure that your learners are  
NOTE Confidence: 0.96236265

00:23:10.525 --> 00:23:11.965 getting to see what they  
NOTE Confidence: 0.96236265

00:23:11.965 --> 00:23:12.765 need to see in their  
NOTE Confidence: 0.96236265

00:23:12.765 --> 00:23:14.685 clinical environment. Right? We struggle  
NOTE Confidence: 0.96236265

00:23:14.685 --> 00:23:16.045 with that. Do they see  
NOTE Confidence: 0.96236265

00:23:16.045 --> 00:23:17.425 enough of a certain diagnosis?  
NOTE Confidence: 0.96236265

00:23:17.645 --> 00:23:19.105 Do they do enough procedures?  
NOTE Confidence: 0.96236265

00:23:19.325 --> 00:23:21.085 Certain scenarios they might not  
NOTE Confidence: 0.96236265

00:23:21.085 --> 00:23:22.730 see very often. Right?  
NOTE Confidence: 0.9839037

00:23:24.390 --> 00:23:25.350 So there is a theory  
NOTE Confidence: 0.9839037

00:23:25.350 --> 00:23:26.090 in cognition

NOTE Confidence: 0.92044324

00:23:26.630 --> 00:23:28.650 cognitive reasoning that students need

NOTE Confidence: 0.99972254

00:23:29.030 --> 00:23:30.010 to see several

NOTE Confidence: 0.99922085

00:23:30.470 --> 00:23:30.970 representative

NOTE Confidence: 0.9675597

00:23:31.350 --> 00:23:33.830 examples of a condition or

NOTE Confidence: 0.9675597

00:23:33.830 --> 00:23:35.190 scenario that would allow them

NOTE Confidence: 0.9675597

00:23:35.190 --> 00:23:36.470 to create their mental model.

NOTE Confidence: 0.9675597

00:23:36.470 --> 00:23:37.510 So it doesn't help to

NOTE Confidence: 0.9675597

00:23:37.510 --> 00:23:37.755 just

NOTE Confidence: 0.9993108

00:23:38.715 --> 00:23:40.095 see one scenario

NOTE Confidence: 0.98535055

00:23:40.875 --> 00:23:41.375 of,

NOTE Confidence: 0.88850284

00:23:42.075 --> 00:23:42.815 let's say,

NOTE Confidence: 0.9491828

00:23:43.675 --> 00:23:43.915 a

NOTE Confidence: 0.8943836

00:23:44.555 --> 00:23:45.855 an NAT case.

NOTE Confidence: 0.9082424

00:23:46.395 --> 00:23:47.775 If you just see one

NOTE Confidence: 0.9808518

00:23:48.155 --> 00:23:49.775 one that might not fully

NOTE Confidence: 0.9808518

00:23:50.075 --> 00:23:51.150 train you, you need to  
NOTE Confidence: 0.9808518

00:23:51.310 --> 00:23:52.670 actually see it from different  
NOTE Confidence: 0.9808518

00:23:52.670 --> 00:23:54.109 angles. And if you can  
NOTE Confidence: 0.9808518

00:23:54.109 --> 00:23:55.150 do that if you can't  
NOTE Confidence: 0.9808518

00:23:55.150 --> 00:23:56.190 do that in the clinical  
NOTE Confidence: 0.9808518

00:23:56.190 --> 00:23:57.470 environment, but you have enough  
NOTE Confidence: 0.9808518

00:23:57.470 --> 00:23:59.230 patient volume where patients where  
NOTE Confidence: 0.9808518

00:23:59.230 --> 00:24:00.590 your learners are exposed over  
NOTE Confidence: 0.9808518

00:24:00.590 --> 00:24:01.710 and over again to the  
NOTE Confidence: 0.9808518

00:24:01.710 --> 00:24:02.530 same concept,  
NOTE Confidence: 0.99411565

00:24:02.990 --> 00:24:04.350 it is actually a great  
NOTE Confidence: 0.99411565

00:24:04.350 --> 00:24:05.630 tool to use simulation for  
NOTE Confidence: 0.99411565

00:24:05.630 --> 00:24:06.130 this.  
NOTE Confidence: 0.9757454

00:24:06.984 --> 00:24:07.784 Of course, it gives you  
NOTE Confidence: 0.9757454

00:24:07.784 --> 00:24:08.825 a safe environment, right, where  
NOTE Confidence: 0.9757454

00:24:08.825 --> 00:24:10.184 you can experiment. You can

NOTE Confidence: 0.9757454  
00:24:10.184 --> 00:24:11.164 use novel  
NOTE Confidence: 0.93928385  
00:24:11.705 --> 00:24:13.385 try out novel conditions. Remember  
NOTE Confidence: 0.93928385  
00:24:13.385 --> 00:24:14.424 when COVID came out and  
NOTE Confidence: 0.93928385  
00:24:14.424 --> 00:24:15.625 we did all those COVID  
NOTE Confidence: 0.93928385  
00:24:15.625 --> 00:24:16.904 scenarios so you can play  
NOTE Confidence: 0.93928385  
00:24:16.904 --> 00:24:17.705 out how would it be  
NOTE Confidence: 0.93928385  
00:24:17.705 --> 00:24:18.505 if we had a case  
NOTE Confidence: 0.93928385  
00:24:18.505 --> 00:24:19.465 here? What if we need  
NOTE Confidence: 0.93928385  
00:24:19.465 --> 00:24:20.284 to decontaminate?  
NOTE Confidence: 0.94849443  
00:24:21.720 --> 00:24:23.000 So it's a nice little  
NOTE Confidence: 0.94849443  
00:24:23.000 --> 00:24:23.500 sandbox.  
NOTE Confidence: 0.97086245  
00:24:24.200 --> 00:24:25.400 That's what I like about  
NOTE Confidence: 0.97086245  
00:24:25.400 --> 00:24:26.840 participating in SIMS that you  
NOTE Confidence: 0.97086245  
00:24:26.840 --> 00:24:28.280 can try things that might  
NOTE Confidence: 0.97086245  
00:24:28.280 --> 00:24:29.240 be out of your comfort  
NOTE Confidence: 0.97086245

00:24:29.240 --> 00:24:29.740 zone.  
NOTE Confidence: 0.9536611

00:24:32.280 --> 00:24:33.559 This circle, I think most  
NOTE Confidence: 0.9536611

00:24:33.559 --> 00:24:34.905 of you probably have seen.  
NOTE Confidence: 0.9536611

00:24:34.905 --> 00:24:36.205 This is the experiential  
NOTE Confidence: 0.99101543

00:24:36.585 --> 00:24:37.965 learning model after  
NOTE Confidence: 0.9033112

00:24:38.345 --> 00:24:39.705 Kolb. So first,  
NOTE Confidence: 0.9555105

00:24:40.265 --> 00:24:41.945 you have a concrete experience  
NOTE Confidence: 0.9555105

00:24:41.945 --> 00:24:43.225 right up top. The concrete  
NOTE Confidence: 0.9555105

00:24:43.225 --> 00:24:43.725 experience,  
NOTE Confidence: 0.9690647

00:24:44.185 --> 00:24:45.484 that could be a simulation  
NOTE Confidence: 0.9690647

00:24:45.545 --> 00:24:46.045 scenario.  
NOTE Confidence: 0.9700074

00:24:46.585 --> 00:24:48.265 Then you can reflect on  
NOTE Confidence: 0.9700074

00:24:48.265 --> 00:24:48.925 the scenario,  
NOTE Confidence: 0.9071566

00:24:49.359 --> 00:24:50.960 your reflection observation phase  
NOTE Confidence: 0.96592337

00:24:51.440 --> 00:24:53.679 reflective observation phase. You reflect  
NOTE Confidence: 0.96592337

00:24:53.679 --> 00:24:54.480 on it, and then you

NOTE Confidence: 0.96592337

00:24:54.480 --> 00:24:56.000 test it again, either in

NOTE Confidence: 0.96592337

00:24:56.000 --> 00:24:57.359 a new simulation or in

NOTE Confidence: 0.96592337

00:24:57.359 --> 00:24:58.580 a clinical environment.

NOTE Confidence: 0.95933306

00:24:59.119 --> 00:25:01.440 And then it's this repeat

NOTE Confidence: 0.95933306

00:25:01.440 --> 00:25:03.359 scenario that is interesting because

NOTE Confidence: 0.95933306

00:25:03.359 --> 00:25:05.059 it allows for deliberate practice.

NOTE Confidence: 0.943641

00:25:05.575 --> 00:25:07.255 Okay? So and then you

NOTE Confidence: 0.943641

00:25:07.255 --> 00:25:08.215 go back to the your

NOTE Confidence: 0.943641

00:25:08.215 --> 00:25:09.335 concrete experience and then you

NOTE Confidence: 0.943641

00:25:09.335 --> 00:25:10.775 reflect again, and that's how

NOTE Confidence: 0.943641

00:25:10.775 --> 00:25:11.994 you build your experience.

NOTE Confidence: 0.992911

00:25:13.815 --> 00:25:14.695 And I just mentioned the

NOTE Confidence: 0.992911

00:25:14.695 --> 00:25:16.775 word deliberate practice. Deliberate practice

NOTE Confidence: 0.992911

00:25:16.775 --> 00:25:17.895 is something you all know.

NOTE Confidence: 0.992911

00:25:17.895 --> 00:25:19.175 It's just the question if

NOTE Confidence: 0.992911

00:25:19.175 --> 00:25:20.360 you know that term. Right?  
NOTE Confidence: 0.992911

00:25:20.360 --> 00:25:22.040 So let's talk about deliberate  
NOTE Confidence: 0.992911

00:25:22.040 --> 00:25:23.080 practice for a moment. On  
NOTE Confidence: 0.992911

00:25:23.080 --> 00:25:24.119 the upper left, you can  
NOTE Confidence: 0.992911

00:25:24.119 --> 00:25:24.619 see  
NOTE Confidence: 0.99137497

00:25:25.160 --> 00:25:26.680 a gymnast, I would say,  
NOTE Confidence: 0.99137497

00:25:26.680 --> 00:25:27.180 flying  
NOTE Confidence: 0.9538985

00:25:27.560 --> 00:25:29.240 gracefully through the air. Then  
NOTE Confidence: 0.9538985

00:25:29.240 --> 00:25:30.040 you see on the right  
NOTE Confidence: 0.9538985

00:25:30.040 --> 00:25:31.640 side a concert pianist that  
NOTE Confidence: 0.9538985

00:25:31.640 --> 00:25:33.225 is just putting the audience  
NOTE Confidence: 0.9538985

00:25:33.225 --> 00:25:33.725 out.  
NOTE Confidence: 0.97208476

00:25:34.265 --> 00:25:35.705 You see on the left  
NOTE Confidence: 0.97208476

00:25:35.705 --> 00:25:37.225 lower side a trial attorney  
NOTE Confidence: 0.97208476

00:25:37.225 --> 00:25:39.005 that's breaking down the defendant's  
NOTE Confidence: 0.97208476

00:25:39.065 --> 00:25:40.525 argument. Very impressive.

NOTE Confidence: 0.99339026

00:25:41.945 --> 00:25:42.744 Then you can see a

NOTE Confidence: 0.99339026

00:25:42.744 --> 00:25:44.665 clinical expert doing surgery, and

NOTE Confidence: 0.99339026

00:25:44.665 --> 00:25:45.945 it looks so effortless when

NOTE Confidence: 0.99339026

00:25:45.945 --> 00:25:46.759 he does it. But if

NOTE Confidence: 0.99339026

00:25:46.759 --> 00:25:47.480 you were to try, you

NOTE Confidence: 0.99339026

00:25:47.480 --> 00:25:48.759 probably couldn't do it. So

NOTE Confidence: 0.99339026

00:25:48.759 --> 00:25:49.960 despite the fact that these

NOTE Confidence: 0.99339026

00:25:49.960 --> 00:25:52.200 professionals are all performing in

NOTE Confidence: 0.99339026

00:25:52.200 --> 00:25:53.340 very different fields,

NOTE Confidence: 0.9868312

00:25:54.359 --> 00:25:55.879 they actually probably followed a

NOTE Confidence: 0.9868312

00:25:55.879 --> 00:25:57.179 similar path in

NOTE Confidence: 0.99559224

00:25:57.480 --> 00:25:59.080 their expertise, which is deliberate

NOTE Confidence: 0.99559224

00:25:59.080 --> 00:26:00.359 practice. So if you want

NOTE Confidence: 0.99559224

00:26:00.359 --> 00:26:01.240 to be a world class

NOTE Confidence: 0.99559224

00:26:01.240 --> 00:26:02.139 soccer player,

NOTE Confidence: 0.9763251

00:26:02.785 --> 00:26:03.905 it's more than just playing  
NOTE Confidence: 0.9763251

00:26:03.905 --> 00:26:05.105 soccer games over and over  
NOTE Confidence: 0.9763251

00:26:05.105 --> 00:26:06.385 again. Right? So they need  
NOTE Confidence: 0.9763251

00:26:06.385 --> 00:26:07.984 to work on specific skills  
NOTE Confidence: 0.9763251

00:26:07.984 --> 00:26:09.765 such as running, strength training,  
NOTE Confidence: 0.9763251

00:26:09.905 --> 00:26:10.405 coordination.  
NOTE Confidence: 0.9427877

00:26:11.825 --> 00:26:12.785 And they need a coach  
NOTE Confidence: 0.9427877

00:26:12.785 --> 00:26:14.705 that's gonna provide them specific  
NOTE Confidence: 0.9427877

00:26:14.705 --> 00:26:16.465 feedback immediately. And there need  
NOTE Confidence: 0.9427877

00:26:16.465 --> 00:26:17.825 to be performance standards. That  
NOTE Confidence: 0.9427877

00:26:17.825 --> 00:26:19.549 all sounds familiar, doesn't it,  
NOTE Confidence: 0.9427877

00:26:19.609 --> 00:26:21.630 to our medical practice where  
NOTE Confidence: 0.95987266

00:26:22.169 --> 00:26:23.130 if you want to run  
NOTE Confidence: 0.95987266

00:26:23.130 --> 00:26:24.909 a successful resuscitation,  
NOTE Confidence: 0.99970776

00:26:25.289 --> 00:26:26.330 you have to have a  
NOTE Confidence: 0.99970776

00:26:26.330 --> 00:26:26.830 lot

NOTE Confidence: 0.98498994

00:26:27.369 --> 00:26:28.570 of different skills that you

NOTE Confidence: 0.98498994

00:26:28.570 --> 00:26:29.690 must have. You need to

NOTE Confidence: 0.98498994

00:26:29.690 --> 00:26:31.230 work on teamwork and communication

NOTE Confidence: 0.98498994

00:26:31.450 --> 00:26:33.674 skills and leadership skills. So,

NOTE Confidence: 0.8346874

00:26:35.195 --> 00:26:35.695 yeah,

NOTE Confidence: 0.9569542

00:26:36.955 --> 00:26:37.994 it does apply in many

NOTE Confidence: 0.9569542

00:26:37.994 --> 00:26:39.434 different areas. I got this

NOTE Confidence: 0.9569542

00:26:39.434 --> 00:26:40.475 from a journal from the

NOTE Confidence: 0.9569542

00:26:40.475 --> 00:26:41.355 New York Indian Journal of

NOTE Confidence: 0.9569542

00:26:41.355 --> 00:26:42.554 Medicine two thousand twenty two.

NOTE Confidence: 0.9569542

00:26:42.554 --> 00:26:43.835 I kind of like this

NOTE Confidence: 0.9569542

00:26:43.835 --> 00:26:45.595 picture actually for to to

NOTE Confidence: 0.9569542

00:26:45.595 --> 00:26:47.034 get an idea about deliberate

NOTE Confidence: 0.9569542

00:26:47.034 --> 00:26:48.014 practice in medicine.

NOTE Confidence: 0.9970803

00:26:48.570 --> 00:26:48.970 So,

NOTE Confidence: 0.9879209

00:26:49.369 --> 00:26:50.990 in medicine, learners can  
NOTE Confidence: 0.9988049

00:26:51.529 --> 00:26:52.429 also practice  
NOTE Confidence: 0.9021291

00:26:52.970 --> 00:26:55.210 specific skills and receive precise  
NOTE Confidence: 0.9021291

00:26:55.210 --> 00:26:55.710 feedback  
NOTE Confidence: 0.98192394

00:26:56.010 --> 00:26:57.149 to improve their performance.  
NOTE Confidence: 0.9683412

00:26:57.529 --> 00:26:58.809 And what was really interesting  
NOTE Confidence: 0.9683412

00:26:58.809 --> 00:26:59.609 to me that came out  
NOTE Confidence: 0.9683412

00:26:59.609 --> 00:27:00.895 of this article is, as  
NOTE Confidence: 0.9683412

00:27:00.895 --> 00:27:01.934 you can see, right, so  
NOTE Confidence: 0.9683412

00:27:01.934 --> 00:27:03.375 as you do a deliberate  
NOTE Confidence: 0.9683412

00:27:03.375 --> 00:27:04.494 practice, you get better and  
NOTE Confidence: 0.9683412

00:27:04.494 --> 00:27:05.295 better and better. If you  
NOTE Confidence: 0.9683412

00:27:05.295 --> 00:27:06.355 don't do it, you  
NOTE Confidence: 0.98588425

00:27:06.655 --> 00:27:07.775 also get better, but maybe  
NOTE Confidence: 0.98588425

00:27:07.775 --> 00:27:09.215 not as fast. What was  
NOTE Confidence: 0.98588425

00:27:09.215 --> 00:27:10.494 interesting to me is that

NOTE Confidence: 0.98588425  
00:27:10.494 --> 00:27:12.734 the average US residency graduate  
NOTE Confidence: 0.98588425  
00:27:12.734 --> 00:27:14.490 is likely to complete only  
NOTE Confidence: 0.98588425  
00:27:14.490 --> 00:27:15.929 two thousand five hundred to  
NOTE Confidence: 0.98588425  
00:27:15.929 --> 00:27:17.550 three thousand hours of deliberate  
NOTE Confidence: 0.98588425  
00:27:17.609 --> 00:27:19.150 practice and clinical reasoning  
NOTE Confidence: 0.9284401  
00:27:20.330 --> 00:27:21.450 during their clinical years in  
NOTE Confidence: 0.9284401  
00:27:21.450 --> 00:27:22.429 med school and residency.  
NOTE Confidence: 0.9986539  
00:27:22.970 --> 00:27:23.470 So  
NOTE Confidence: 0.9793994  
00:27:24.570 --> 00:27:25.530 I think most of you  
NOTE Confidence: 0.9793994  
00:27:25.530 --> 00:27:26.570 have probably heard that number  
NOTE Confidence: 0.9793994  
00:27:26.570 --> 00:27:27.770 of ten thousand hours to  
NOTE Confidence: 0.9793994  
00:27:27.770 --> 00:27:30.109 reach mastery. Right? Right? So  
NOTE Confidence: 0.9793994  
00:27:30.274 --> 00:27:31.075 two and a half thousand  
NOTE Confidence: 0.9793994  
00:27:31.075 --> 00:27:32.514 or three thousand doesn't cut  
NOTE Confidence: 0.9793994  
00:27:32.514 --> 00:27:33.255 it. Right?  
NOTE Confidence: 0.9815388

00:27:33.715 --> 00:27:34.215 And  
NOTE Confidence: 0.9918173

00:27:34.595 --> 00:27:35.794 simulation can help in that  
NOTE Confidence: 0.9918173

00:27:35.794 --> 00:27:36.294 case.  
NOTE Confidence: 0.998378

00:27:36.674 --> 00:27:38.455 And we do hear this  
NOTE Confidence: 0.9521706

00:27:38.914 --> 00:27:40.774 subjectively also from our trainees.  
NOTE Confidence: 0.9521706

00:27:40.835 --> 00:27:42.134 Right? Right now the ACGME  
NOTE Confidence: 0.9521706

00:27:42.274 --> 00:27:43.794 survey is out. Everybody's going  
NOTE Confidence: 0.9521706

00:27:43.794 --> 00:27:44.774 to rank the programs.  
NOTE Confidence: 0.9996874

00:27:45.230 --> 00:27:47.010 And they might comment on  
NOTE Confidence: 0.9828181

00:27:47.310 --> 00:27:49.710 concerns about decreased procedural exposure  
NOTE Confidence: 0.9828181

00:27:49.710 --> 00:27:51.070 overall because that's just how  
NOTE Confidence: 0.9828181

00:27:51.070 --> 00:27:52.350 medicine is right now. There  
NOTE Confidence: 0.9828181

00:27:52.350 --> 00:27:53.010 are fortunately  
NOTE Confidence: 0.95688355

00:27:53.550 --> 00:27:55.070 less, let's say, less lumbar  
NOTE Confidence: 0.95688355

00:27:55.070 --> 00:27:56.750 punctures in infants because they  
NOTE Confidence: 0.95688355

00:27:57.230 --> 00:27:58.590 the guidelines have changed. And,

NOTE Confidence: 0.99759066

00:27:59.855 --> 00:28:01.635 so simulation can help here.

NOTE Confidence: 0.9373621

00:28:02.255 --> 00:28:03.775 We did this recently with

NOTE Confidence: 0.9373621

00:28:03.775 --> 00:28:05.475 our medic med peds residents,

NOTE Confidence: 0.9373621

00:28:05.535 --> 00:28:07.695 specifically doing a procedural academic

NOTE Confidence: 0.9373621

00:28:07.695 --> 00:28:09.635 half day where we incorporate

NOTE Confidence: 0.9373621

00:28:09.775 --> 00:28:11.475 more and we're also incorporating

NOTE Confidence: 0.9373621

00:28:11.615 --> 00:28:13.740 more procedures intentionally, which with

NOTE Confidence: 0.9373621

00:28:13.740 --> 00:28:15.980 our Tuesday pediatric simulations, allowing

NOTE Confidence: 0.9373621

00:28:15.980 --> 00:28:16.800 for more

NOTE Confidence: 0.9718021

00:28:17.420 --> 00:28:19.660 IO placements, even intubations no

NOTE Confidence: 0.9718021

00:28:19.660 --> 00:28:21.180 matter if the resident will

NOTE Confidence: 0.9718021

00:28:21.180 --> 00:28:22.140 use them later on or

NOTE Confidence: 0.9718021

00:28:22.140 --> 00:28:22.640 not.

NOTE Confidence: 0.9646583

00:28:23.260 --> 00:28:24.540 I'm actually really passionate about

NOTE Confidence: 0.9646583

00:28:24.540 --> 00:28:25.040 this.

NOTE Confidence: 0.94956315

00:28:28.335 --> 00:28:29.715 When teaching our learners,  
NOTE Confidence: 0.9997676

00:28:30.335 --> 00:28:31.935 we really should aim to  
NOTE Confidence: 0.9997676

00:28:31.935 --> 00:28:33.155 provide experiences  
NOTE Confidence: 0.99980676

00:28:33.775 --> 00:28:35.155 that are tailored to  
NOTE Confidence: 0.8810964

00:28:35.615 --> 00:28:36.275 the student's  
NOTE Confidence: 0.9546486

00:28:36.815 --> 00:28:38.815 ability level. Easier said than  
NOTE Confidence: 0.9546486

00:28:38.815 --> 00:28:40.530 done. Right? If it's too  
NOTE Confidence: 0.9546486

00:28:40.530 --> 00:28:41.890 easy, they get bored. If  
NOTE Confidence: 0.9546486

00:28:41.890 --> 00:28:43.590 it's too difficult, they're overwhelmed.  
NOTE Confidence: 0.9546486

00:28:43.810 --> 00:28:44.690 Right? So this is why  
NOTE Confidence: 0.9546486

00:28:44.690 --> 00:28:46.050 I like this picture actually  
NOTE Confidence: 0.9546486

00:28:46.050 --> 00:28:47.570 from I'm probably saying this  
NOTE Confidence: 0.9546486

00:28:47.570 --> 00:28:48.390 wrong. Vygotsky.  
NOTE Confidence: 0.941225

00:28:49.490 --> 00:28:50.530 Those are the zone. It's  
NOTE Confidence: 0.941225

00:28:50.530 --> 00:28:51.750 called the zone of proximal  
NOTE Confidence: 0.941225

00:28:51.810 --> 00:28:53.010 development. But if you have

NOTE Confidence: 0.941225  
00:28:53.010 --> 00:28:53.890 this in your head when  
NOTE Confidence: 0.941225  
00:28:53.890 --> 00:28:54.930 you're doing your sims, you  
NOTE Confidence: 0.941225  
00:28:54.930 --> 00:28:56.645 can tie trade your sims  
NOTE Confidence: 0.97282225  
00:28:56.945 --> 00:28:58.865 to the learner's stress level  
NOTE Confidence: 0.97282225  
00:28:58.865 --> 00:29:00.625 and the learner's experience level.  
NOTE Confidence: 0.97282225  
00:29:00.625 --> 00:29:02.225 It's quite fun, actually. So  
NOTE Confidence: 0.97282225  
00:29:02.225 --> 00:29:03.185 here you can see what  
NOTE Confidence: 0.97282225  
00:29:03.185 --> 00:29:04.225 people can do in the  
NOTE Confidence: 0.97282225  
00:29:04.225 --> 00:29:05.745 middle, that green little,  
NOTE Confidence: 0.9773945  
00:29:06.545 --> 00:29:07.605 round, bubble.  
NOTE Confidence: 0.9317687  
00:29:08.065 --> 00:29:08.930 So this is what people  
NOTE Confidence: 0.9317687  
00:29:09.090 --> 00:29:10.450 represents what people can already  
NOTE Confidence: 0.9317687  
00:29:10.450 --> 00:29:11.190 do. Right?  
NOTE Confidence: 0.97219497  
00:29:11.810 --> 00:29:12.610 So that will be too  
NOTE Confidence: 0.97219497  
00:29:12.610 --> 00:29:13.570 easy. If you do these  
NOTE Confidence: 0.97219497

00:29:13.570 --> 00:29:15.030 things, they're gonna be bored.  
NOTE Confidence: 0.97219497

00:29:15.330 --> 00:29:16.930 Then there is the area  
NOTE Confidence: 0.97219497

00:29:16.930 --> 00:29:18.310 on the outside, the blue  
NOTE Confidence: 0.9602433

00:29:18.690 --> 00:29:19.970 things that they can't do  
NOTE Confidence: 0.9602433

00:29:19.970 --> 00:29:21.170 that's outside. That will be  
NOTE Confidence: 0.9602433

00:29:21.170 --> 00:29:22.485 too difficult. So the sweet  
NOTE Confidence: 0.9602433

00:29:22.485 --> 00:29:23.445 spot is we're really in  
NOTE Confidence: 0.9602433

00:29:23.445 --> 00:29:25.705 that zone here in purple  
NOTE Confidence: 0.9078333

00:29:26.405 --> 00:29:26.905 where  
NOTE Confidence: 0.92386705

00:29:27.365 --> 00:29:28.804 which says what I can  
NOTE Confidence: 0.92386705

00:29:28.804 --> 00:29:29.705 do with help.  
NOTE Confidence: 0.9951254

00:29:30.005 --> 00:29:30.965 And that's what we call  
NOTE Confidence: 0.9951254

00:29:30.965 --> 00:29:32.505 the zone of proximal development.  
NOTE Confidence: 0.9807244

00:29:33.125 --> 00:29:34.485 Fancy term for something that  
NOTE Confidence: 0.9807244

00:29:34.485 --> 00:29:36.725 is probably actually pretty easy  
NOTE Confidence: 0.9807244

00:29:36.725 --> 00:29:37.385 to understand.

NOTE Confidence: 0.9938845  
00:29:39.740 --> 00:29:41.100 Let's talk about fidelity for  
NOTE Confidence: 0.9938845  
00:29:41.100 --> 00:29:42.460 a moment. I'm sure you've  
NOTE Confidence: 0.9938845  
00:29:42.460 --> 00:29:43.600 used the word fidelity  
NOTE Confidence: 0.9521448  
00:29:43.980 --> 00:29:45.020 a lot in your career  
NOTE Confidence: 0.9521448  
00:29:45.020 --> 00:29:46.059 and you've maybe heard it  
NOTE Confidence: 0.9521448  
00:29:46.059 --> 00:29:47.260 a lot. But what it  
NOTE Confidence: 0.9521448  
00:29:47.260 --> 00:29:48.299 actually stands for, we need  
NOTE Confidence: 0.9521448  
00:29:48.299 --> 00:29:49.600 to really talk about that  
NOTE Confidence: 0.9695515  
00:29:49.980 --> 00:29:50.480 because  
NOTE Confidence: 0.9992947  
00:29:50.940 --> 00:29:51.900 we need to match our  
NOTE Confidence: 0.9992947  
00:29:51.900 --> 00:29:52.880 learning objectives  
NOTE Confidence: 0.97644466  
00:29:53.284 --> 00:29:54.885 to the realism. How much  
NOTE Confidence: 0.97644466  
00:29:54.885 --> 00:29:57.125 realism is actually needed? And  
NOTE Confidence: 0.97644466  
00:29:57.125 --> 00:29:58.245 that depends on your learning  
NOTE Confidence: 0.97644466  
00:29:58.245 --> 00:29:58.745 objectives.  
NOTE Confidence: 0.9998199

00:29:59.684 --> 00:30:01.385 There are many different components  
NOTE Confidence: 0.9998199

00:30:01.524 --> 00:30:02.825 that go into determining  
NOTE Confidence: 0.97432214

00:30:03.365 --> 00:30:05.225 fidelity of a clinical simulation  
NOTE Confidence: 0.97432214

00:30:05.365 --> 00:30:05.865 experience.  
NOTE Confidence: 0.98684555

00:30:06.200 --> 00:30:07.640 As you can see, some  
NOTE Confidence: 0.98684555

00:30:07.640 --> 00:30:09.720 components just simplified up here.  
NOTE Confidence: 0.98684555

00:30:09.720 --> 00:30:11.240 So you can have you  
NOTE Confidence: 0.98684555

00:30:11.240 --> 00:30:12.120 can we can talk about  
NOTE Confidence: 0.98684555

00:30:12.120 --> 00:30:13.559 the equipment fidelity on the  
NOTE Confidence: 0.98684555

00:30:13.559 --> 00:30:15.160 upper right. That's the degree  
NOTE Confidence: 0.98684555

00:30:15.160 --> 00:30:16.140 to which the simulator  
NOTE Confidence: 0.9988213

00:30:16.520 --> 00:30:17.020 replicates  
NOTE Confidence: 0.99840665

00:30:17.720 --> 00:30:19.180 or duplicates the appearance  
NOTE Confidence: 0.9934593

00:30:21.455 --> 00:30:22.654 and feel of the real  
NOTE Confidence: 0.9934593

00:30:22.654 --> 00:30:24.174 system. So an example would  
NOTE Confidence: 0.9934593

00:30:24.174 --> 00:30:25.934 be a flight simulator with

NOTE Confidence: 0.9934593

00:30:25.934 --> 00:30:27.695 an appropriate cockpit layout. Right?

NOTE Confidence: 0.9934593

00:30:27.695 --> 00:30:29.134 So does it match the

NOTE Confidence: 0.9934593

00:30:29.134 --> 00:30:30.414 real cockpit? That's the question

NOTE Confidence: 0.9934593

00:30:30.414 --> 00:30:31.394 for the equipment.

NOTE Confidence: 0.99810934

00:30:32.770 --> 00:30:34.070 Talking about environmental

NOTE Confidence: 0.6271481

00:30:34.370 --> 00:30:34.870 fidelity,

NOTE Confidence: 0.88605

00:30:36.210 --> 00:30:37.890 this the question is, does

NOTE Confidence: 0.88605

00:30:37.890 --> 00:30:39.670 the simulation environment duplicate

NOTE Confidence: 0.9495287

00:30:40.130 --> 00:30:42.309 your sensory information? For example,

NOTE Confidence: 0.9458056

00:30:42.770 --> 00:30:44.690 visual cues, maybe the monitor

NOTE Confidence: 0.9458056

00:30:44.690 --> 00:30:46.315 alarming. A good example for

NOTE Confidence: 0.9458056

00:30:46.315 --> 00:30:47.355 this would actually be our

NOTE Confidence: 0.9458056

00:30:47.355 --> 00:30:48.555 insight to simulation in the

NOTE Confidence: 0.9458056

00:30:48.555 --> 00:30:50.395 pediatric trauma bay, right, or

NOTE Confidence: 0.9458056

00:30:50.395 --> 00:30:51.755 on the pediatric floors where

NOTE Confidence: 0.9458056

00:30:51.755 --> 00:30:53.435 you're in your environment and  
NOTE Confidence: 0.9458056

00:30:53.435 --> 00:30:54.395 you're hearing the sounds you  
NOTE Confidence: 0.9458056

00:30:54.395 --> 00:30:55.515 would be hearing, you're seeing  
NOTE Confidence: 0.9458056

00:30:55.515 --> 00:30:56.395 the things you would be  
NOTE Confidence: 0.9458056

00:30:56.395 --> 00:30:58.335 seeing. So that's really representing  
NOTE Confidence: 0.9458056

00:30:58.475 --> 00:30:59.535 the, environment.  
NOTE Confidence: 0.97887814

00:31:00.120 --> 00:31:02.300 Psychological fidelity is the degree  
NOTE Confidence: 0.97887814

00:31:02.520 --> 00:31:04.060 to which the learner perceives  
NOTE Confidence: 0.97887814

00:31:04.120 --> 00:31:06.060 the simulation to be believable  
NOTE Confidence: 0.97887814

00:31:06.200 --> 00:31:07.420 and to be a believable  
NOTE Confidence: 0.9889072

00:31:07.880 --> 00:31:08.380 surrogate  
NOTE Confidence: 0.92685115

00:31:09.000 --> 00:31:10.600 for the train task or  
NOTE Confidence: 0.92685115

00:31:10.600 --> 00:31:12.300 experience. I find psychological,  
NOTE Confidence: 0.97105235

00:31:13.585 --> 00:31:15.284 fidelity actually the most interesting.  
NOTE Confidence: 0.9642196

00:31:15.745 --> 00:31:16.625 Do we need a lot  
NOTE Confidence: 0.9642196

00:31:16.625 --> 00:31:18.225 of high technology in order

NOTE Confidence: 0.9642196

00:31:18.225 --> 00:31:19.745 to maintain a lot level

NOTE Confidence: 0.9642196

00:31:19.745 --> 00:31:21.924 of psychological fidelity? And

NOTE Confidence: 0.9712014

00:31:22.304 --> 00:31:23.585 what factors go into that

NOTE Confidence: 0.9712014

00:31:23.585 --> 00:31:25.125 to make that happen? Right?

NOTE Confidence: 0.9995222

00:31:25.940 --> 00:31:27.240 For example, if you look

NOTE Confidence: 0.93816936

00:31:27.700 --> 00:31:29.140 at at least two. Right?

NOTE Confidence: 0.93816936

00:31:29.140 --> 00:31:30.260 So you can see a

NOTE Confidence: 0.93816936

00:31:30.260 --> 00:31:32.020 high fidelity mannequin, so called

NOTE Confidence: 0.93816936

00:31:32.020 --> 00:31:33.140 high fidelity, I would say

NOTE Confidence: 0.93816936

00:31:33.140 --> 00:31:34.580 high technology probably, on the

NOTE Confidence: 0.93816936

00:31:34.580 --> 00:31:35.640 left upper side,

NOTE Confidence: 0.9995473

00:31:36.260 --> 00:31:37.720 offers moderate physical

NOTE Confidence: 0.97037596

00:31:38.179 --> 00:31:39.880 realism, allows for some conceptual

NOTE Confidence: 0.97037596

00:31:40.020 --> 00:31:41.605 realism. Right? And assists with

NOTE Confidence: 0.97037596

00:31:41.605 --> 00:31:43.764 emotional realism too. But it

NOTE Confidence: 0.97037596

00:31:43.764 --> 00:31:44.884 does not provide a high  
NOTE Confidence: 0.97037596

00:31:44.884 --> 00:31:45.384 level,  
NOTE Confidence: 0.9790152

00:31:46.565 --> 00:31:48.024 for any any of those.  
NOTE Confidence: 0.9790152

00:31:48.164 --> 00:31:49.205 Then look at the IV  
NOTE Confidence: 0.9790152

00:31:49.205 --> 00:31:50.325 pole to the right. It's  
NOTE Confidence: 0.9790152

00:31:50.325 --> 00:31:52.164 extremely high in physical realism  
NOTE Confidence: 0.9790152

00:31:52.164 --> 00:31:53.524 and fidelity. Right? It looks  
NOTE Confidence: 0.9790152

00:31:53.524 --> 00:31:54.804 much more than an IV  
NOTE Confidence: 0.9790152

00:31:54.804 --> 00:31:55.865 pole then,  
NOTE Confidence: 0.9623356

00:31:56.410 --> 00:31:57.450 the mannequin that's lying in  
NOTE Confidence: 0.9623356

00:31:57.450 --> 00:31:58.570 the bed would look like  
NOTE Confidence: 0.9623356

00:31:58.570 --> 00:31:59.610 a like a man, right,  
NOTE Confidence: 0.9623356

00:31:59.610 --> 00:32:00.350 or a person.  
NOTE Confidence: 0.9489739

00:32:02.730 --> 00:32:04.490 But by its nature, the  
NOTE Confidence: 0.9489739

00:32:04.490 --> 00:32:06.010 IV pole offers no emotional  
NOTE Confidence: 0.9489739

00:32:06.010 --> 00:32:07.370 realism and depending on the

NOTE Confidence: 0.9489739

00:32:07.370 --> 00:32:09.470 objectives, little conceptual realism.

NOTE Confidence: 0.99325216

00:32:09.784 --> 00:32:11.144 So what do we need

NOTE Confidence: 0.99325216

00:32:11.144 --> 00:32:12.664 for high fidelity? Again, it

NOTE Confidence: 0.99325216

00:32:12.664 --> 00:32:14.105 depends on your objectives. First,

NOTE Confidence: 0.99325216

00:32:14.105 --> 00:32:15.725 you need to determine your

NOTE Confidence: 0.99325216

00:32:16.024 --> 00:32:16.524 objectives,

NOTE Confidence: 0.94569165

00:32:16.825 --> 00:32:18.505 which is probably something, Lindsay

NOTE Confidence: 0.94569165

00:32:18.505 --> 00:32:19.164 would preach.

NOTE Confidence: 0.98357797

00:32:20.265 --> 00:32:21.304 Then you can choose the

NOTE Confidence: 0.98357797

00:32:21.304 --> 00:32:23.565 appropriate fidelity and technology level,

NOTE Confidence: 0.98357797

00:32:23.705 --> 00:32:25.325 and sometimes you can balance

NOTE Confidence: 0.98286414

00:32:25.909 --> 00:32:27.750 your resources. So technology can

NOTE Confidence: 0.98286414

00:32:27.750 --> 00:32:29.190 be very expensive. Right? So

NOTE Confidence: 0.98286414

00:32:29.190 --> 00:32:30.390 it is really okay to

NOTE Confidence: 0.98286414

00:32:30.390 --> 00:32:31.610 use lower technology

NOTE Confidence: 0.93686736

00:32:32.070 --> 00:32:32.570 solutions,  
NOTE Confidence: 0.99979514

00:32:34.070 --> 00:32:35.190 as long as you can  
NOTE Confidence: 0.99979514

00:32:35.190 --> 00:32:36.169 achieve appropriate  
NOTE Confidence: 0.9976354

00:32:36.470 --> 00:32:36.970 fidelity.  
NOTE Confidence: 0.9924935

00:32:40.445 --> 00:32:42.125 Suspension of disbelief. If you  
NOTE Confidence: 0.9924935

00:32:42.125 --> 00:32:43.885 increase your fidelity, it allows  
NOTE Confidence: 0.9924935

00:32:43.885 --> 00:32:45.424 your learners to suspend disbelief.  
NOTE Confidence: 0.9924935

00:32:45.485 --> 00:32:46.765 They will buy into your  
NOTE Confidence: 0.9924935

00:32:46.765 --> 00:32:48.924 fiction contract. Right? Having said  
NOTE Confidence: 0.9924935

00:32:48.924 --> 00:32:51.085 that, high realism doesn't always  
NOTE Confidence: 0.9924935

00:32:51.085 --> 00:32:52.304 mean better learning.  
NOTE Confidence: 0.98082334

00:32:52.920 --> 00:32:54.600 It may actually have more  
NOTE Confidence: 0.98082334

00:32:54.600 --> 00:32:56.520 to do with presence, and  
NOTE Confidence: 0.98082334

00:32:56.520 --> 00:32:57.800 I've experienced that certainly with  
NOTE Confidence: 0.98082334

00:32:57.800 --> 00:32:59.160 my learners. So how much  
NOTE Confidence: 0.98082334

00:32:59.160 --> 00:33:00.600 your learners truly believe they're

NOTE Confidence: 0.98082334

00:33:00.600 --> 00:33:01.980 in an artificial environment.

NOTE Confidence: 0.9903177

00:33:02.360 --> 00:33:03.400 Just like here, the child

NOTE Confidence: 0.9903177

00:33:03.400 --> 00:33:04.280 is getting such a great

NOTE Confidence: 0.9903177

00:33:04.280 --> 00:33:05.880 experience at Disney right now

NOTE Confidence: 0.9903177

00:33:05.880 --> 00:33:07.080 because he believes that he's

NOTE Confidence: 0.9903177

00:33:07.080 --> 00:33:07.980 talking to Cinderella.

NOTE Confidence: 0.96860653

00:33:08.735 --> 00:33:10.575 So I I actually love

NOTE Confidence: 0.96860653

00:33:10.575 --> 00:33:12.735 that, comparison for suspension of

NOTE Confidence: 0.96860653

00:33:12.735 --> 00:33:14.095 belief. And sometimes I use

NOTE Confidence: 0.96860653

00:33:14.095 --> 00:33:15.535 that example in my sense.

NOTE Confidence: 0.96860653

00:33:15.535 --> 00:33:16.595 Just a little recommendation.

NOTE Confidence: 0.95921916

00:33:17.695 --> 00:33:18.975 I cannot do a talk

NOTE Confidence: 0.95921916

00:33:18.975 --> 00:33:20.815 about simulation without talking about

NOTE Confidence: 0.95921916

00:33:20.815 --> 00:33:21.855 your briefing for just a

NOTE Confidence: 0.95921916

00:33:21.855 --> 00:33:22.355 moment.

NOTE Confidence: 0.91052544

00:33:22.820 --> 00:33:24.100 David Gaba is one of  
NOTE Confidence: 0.91052544

00:33:24.100 --> 00:33:24.760 the early,  
NOTE Confidence: 0.9657366

00:33:25.220 --> 00:33:25.720 simulationists  
NOTE Confidence: 0.875495

00:33:26.100 --> 00:33:26.500 in,  
NOTE Confidence: 0.98936254

00:33:27.860 --> 00:33:29.320 in our simulation world,  
NOTE Confidence: 0.9723198

00:33:30.740 --> 00:33:32.260 who said that his his  
NOTE Confidence: 0.9723198

00:33:32.260 --> 00:33:34.020 definition early on was already  
NOTE Confidence: 0.9723198

00:33:34.180 --> 00:33:35.540 it's a that debriefing is  
NOTE Confidence: 0.9723198

00:33:35.540 --> 00:33:37.400 a facilitated or guided reflection  
NOTE Confidence: 0.9723198

00:33:37.460 --> 00:33:38.955 in the cycle of learning  
NOTE Confidence: 0.9723198

00:33:38.955 --> 00:33:40.554 experience. So the goal is  
NOTE Confidence: 0.9723198

00:33:40.554 --> 00:33:41.595 you have learners and you  
NOTE Confidence: 0.9723198

00:33:41.595 --> 00:33:42.575 have the facilitators.  
NOTE Confidence: 0.9406505

00:33:43.275 --> 00:33:44.475 The learners need to bring  
NOTE Confidence: 0.9406505

00:33:44.475 --> 00:33:45.755 to the table the active  
NOTE Confidence: 0.9406505

00:33:45.755 --> 00:33:46.255 participation,

NOTE Confidence: 0.99940586

00:33:47.195 --> 00:33:48.414 and then the facilitators

NOTE Confidence: 0.9975667

00:33:48.875 --> 00:33:49.855 guide the discussion,

NOTE Confidence: 0.9934111

00:33:50.315 --> 00:33:51.995 identify gaps, and help close

NOTE Confidence: 0.9934111

00:33:51.995 --> 00:33:52.815 those gaps.

NOTE Confidence: 0.96793336

00:33:57.020 --> 00:33:58.059 So if there if there

NOTE Confidence: 0.96793336

00:33:58.059 --> 00:33:59.260 was such a thing as

NOTE Confidence: 0.96793336

00:33:59.260 --> 00:34:00.780 a as a as an

NOTE Confidence: 0.96793336

00:34:00.780 --> 00:34:02.460 exam, like a a site

NOTE Confidence: 0.96793336

00:34:02.460 --> 00:34:04.460 exam on simulation practice, people

NOTE Confidence: 0.96793336

00:34:04.460 --> 00:34:05.820 would get the question, please

NOTE Confidence: 0.96793336

00:34:05.820 --> 00:34:07.580 define the difference between debriefing

NOTE Confidence: 0.96793336

00:34:07.580 --> 00:34:09.265 and feedback. Really important because,

NOTE Confidence: 0.9528259

00:34:10.844 --> 00:34:11.585 in most,

NOTE Confidence: 0.94212544

00:34:13.565 --> 00:34:14.525 yeah, I mean, in most

NOTE Confidence: 0.94212544

00:34:14.525 --> 00:34:15.965 cases, feedback is just different

NOTE Confidence: 0.94212544

00:34:15.965 --> 00:34:17.565 to debriefing. Right? So feedback  
NOTE Confidence: 0.94212544

00:34:17.565 --> 00:34:19.425 is you give get information  
NOTE Confidence: 0.9990244

00:34:19.725 --> 00:34:21.645 about your behavior to improve  
NOTE Confidence: 0.9990244

00:34:21.645 --> 00:34:23.185 your performance in the future.  
NOTE Confidence: 0.9671898

00:34:23.670 --> 00:34:25.430 Debriefing is an interaction. As  
NOTE Confidence: 0.9671898

00:34:25.430 --> 00:34:26.550 you can see, the arrows  
NOTE Confidence: 0.9671898

00:34:26.550 --> 00:34:27.589 go back and forth. It's  
NOTE Confidence: 0.9671898

00:34:27.589 --> 00:34:28.630 not just from the teacher  
NOTE Confidence: 0.9671898

00:34:28.630 --> 00:34:29.589 to the learner. It's going  
NOTE Confidence: 0.9671898

00:34:29.589 --> 00:34:31.109 from a facilitator to a  
NOTE Confidence: 0.9671898

00:34:31.109 --> 00:34:32.710 learner back and forth through  
NOTE Confidence: 0.9671898

00:34:32.710 --> 00:34:33.369 a conversation,  
NOTE Confidence: 0.8182281

00:34:35.430 --> 00:34:35.930 through,  
NOTE Confidence: 0.94230014

00:34:36.309 --> 00:34:36.809 reflection.  
NOTE Confidence: 0.8757667

00:34:38.585 --> 00:34:39.484 And simulation  
NOTE Confidence: 0.99642164

00:34:39.864 --> 00:34:41.545 literature identified feedback in the

NOTE Confidence: 0.99642164

00:34:41.545 --> 00:34:42.744 form of debriefing as the

NOTE Confidence: 0.99642164

00:34:42.744 --> 00:34:44.425 most important feature of the

NOTE Confidence: 0.99642164

00:34:44.425 --> 00:34:46.285 simulation based education. So

NOTE Confidence: 0.99778587

00:34:47.065 --> 00:34:49.085 despite there being pretty few

NOTE Confidence: 0.99778587

00:34:49.145 --> 00:34:50.825 papers telling you how to

NOTE Confidence: 0.99778587

00:34:50.825 --> 00:34:51.645 best debrief,

NOTE Confidence: 0.98006034

00:34:52.310 --> 00:34:53.670 most will say you should

NOTE Confidence: 0.98006034

00:34:53.670 --> 00:34:55.590 debrief. We actually recently completed

NOTE Confidence: 0.98006034

00:34:55.590 --> 00:34:57.110 a systematic review on this

NOTE Confidence: 0.98006034

00:34:57.110 --> 00:34:58.070 topic as part of the

NOTE Confidence: 0.98006034

00:34:58.070 --> 00:34:59.830 Society of Simulation Healthcare Research

NOTE Confidence: 0.98006034

00:34:59.830 --> 00:35:00.330 Summit.

NOTE Confidence: 0.8980692

00:35:00.790 --> 00:35:02.650 Also found lots of literature.

NOTE Confidence: 0.9652974

00:35:02.950 --> 00:35:04.230 We still we still don't

NOTE Confidence: 0.9652974

00:35:04.230 --> 00:35:05.750 have clear guidance of what

NOTE Confidence: 0.9652974

00:35:05.750 --> 00:35:07.930 debriefing style works best, so  
NOTE Confidence: 0.9841367

00:35:08.285 --> 00:35:09.425 pick which one you  
NOTE Confidence: 0.95778906

00:35:09.885 --> 00:35:10.685 like. This is what I  
NOTE Confidence: 0.95778906

00:35:10.685 --> 00:35:12.125 would consider more like a  
NOTE Confidence: 0.86697406

00:35:12.605 --> 00:35:14.445 yeah okay not that. So  
NOTE Confidence: 0.86697406

00:35:14.445 --> 00:35:16.045 in the debriefing you start  
NOTE Confidence: 0.86697406

00:35:16.045 --> 00:35:17.185 with having  
NOTE Confidence: 0.912111

00:35:17.565 --> 00:35:18.765 your own frame on the  
NOTE Confidence: 0.912111

00:35:18.765 --> 00:35:19.645 left. You can see that  
NOTE Confidence: 0.912111

00:35:19.645 --> 00:35:21.820 right. Then you're in the  
NOTE Confidence: 0.912111

00:35:21.820 --> 00:35:23.060 sim. You do an action  
NOTE Confidence: 0.912111

00:35:23.060 --> 00:35:24.360 and there are certain results.  
NOTE Confidence: 0.9987325

00:35:24.660 --> 00:35:25.620 Then you talk about it  
NOTE Confidence: 0.9987325

00:35:25.620 --> 00:35:26.440 in the debrief  
NOTE Confidence: 0.9736898

00:35:26.820 --> 00:35:28.739 and that might later change  
NOTE Confidence: 0.9736898

00:35:28.739 --> 00:35:30.340 your actions. Right? And the

NOTE Confidence: 0.9736898

00:35:30.340 --> 00:35:31.620 debrief might also change your

NOTE Confidence: 0.9736898

00:35:31.620 --> 00:35:32.580 frame. And then you do

NOTE Confidence: 0.9736898

00:35:32.580 --> 00:35:34.200 your next scenario or clinical

NOTE Confidence: 0.9736898

00:35:34.340 --> 00:35:34.840 experience.

NOTE Confidence: 0.99913853

00:35:35.195 --> 00:35:36.015 You might have different results.

NOTE Confidence: 0.95574045

00:35:36.475 --> 00:35:37.915 Now reflect again. Go back

NOTE Confidence: 0.95574045

00:35:37.915 --> 00:35:38.795 to your frame that might

NOTE Confidence: 0.95574045

00:35:38.795 --> 00:35:40.235 have changed or your actions

NOTE Confidence: 0.95574045

00:35:40.235 --> 00:35:40.975 might change.

NOTE Confidence: 0.96588475

00:35:44.155 --> 00:35:45.755 There are different debriefing methods.

NOTE Confidence: 0.96588475

00:35:45.755 --> 00:35:46.955 And just in honor of

NOTE Confidence: 0.96588475

00:35:46.955 --> 00:35:48.880 the efforts at Bridgeport Hospital

NOTE Confidence: 0.96588475

00:35:49.020 --> 00:35:50.320 with a new simulation,

NOTE Confidence: 0.9934287

00:35:50.860 --> 00:35:52.300 debriefing technique, I would like

NOTE Confidence: 0.9934287

00:35:52.300 --> 00:35:53.660 to just point this out.

NOTE Confidence: 0.9934287

00:35:53.660 --> 00:35:55.020 This is a post scenario  
NOTE Confidence: 0.9934287

00:35:55.020 --> 00:35:56.219 debrief, which is what most  
NOTE Confidence: 0.9934287

00:35:56.219 --> 00:35:57.500 of you guys would probably  
NOTE Confidence: 0.9934287

00:35:57.500 --> 00:35:58.480 consider a debrief.  
NOTE Confidence: 0.9708913

00:35:58.780 --> 00:36:00.219 You start at the beginning  
NOTE Confidence: 0.9708913

00:36:00.219 --> 00:36:01.500 of the scenario. You go  
NOTE Confidence: 0.9708913

00:36:01.500 --> 00:36:02.219 all the way to the  
NOTE Confidence: 0.9708913

00:36:02.219 --> 00:36:03.914 end and talk about it.  
NOTE Confidence: 0.9948688

00:36:04.375 --> 00:36:05.895 There's something that's called rapid  
NOTE Confidence: 0.9948688

00:36:05.895 --> 00:36:07.275 cycle deliberate practice  
NOTE Confidence: 0.94498473

00:36:07.815 --> 00:36:08.934 where actually you start in  
NOTE Confidence: 0.94498473

00:36:08.934 --> 00:36:10.055 the beginning, you go to  
NOTE Confidence: 0.94498473

00:36:10.055 --> 00:36:10.954 a certain milestone,  
NOTE Confidence: 0.9698632

00:36:11.575 --> 00:36:12.934 you get very direct feedback.  
NOTE Confidence: 0.9698632

00:36:12.934 --> 00:36:13.734 You go to the next  
NOTE Confidence: 0.9698632

00:36:13.734 --> 00:36:15.355 milestone, you get direct feedback.

NOTE Confidence: 0.9698632

00:36:15.590 --> 00:36:16.390 You either go all the

NOTE Confidence: 0.9698632

00:36:16.390 --> 00:36:17.270 way to the back again

NOTE Confidence: 0.9698632

00:36:17.270 --> 00:36:18.150 or you just go back

NOTE Confidence: 0.9698632

00:36:18.150 --> 00:36:19.750 to the previous milestone. I'm

NOTE Confidence: 0.9698632

00:36:19.750 --> 00:36:20.310 going to show you on

NOTE Confidence: 0.9698632

00:36:20.310 --> 00:36:21.190 an example. It's going to

NOTE Confidence: 0.9698632

00:36:21.190 --> 00:36:23.030 be easier. For example, you

NOTE Confidence: 0.9698632

00:36:23.030 --> 00:36:24.070 have an eight month old

NOTE Confidence: 0.9698632

00:36:24.070 --> 00:36:25.750 bronchiolitic patient. Right? So your

NOTE Confidence: 0.9698632

00:36:25.750 --> 00:36:27.050 first milestone might

NOTE Confidence: 0.9314991

00:36:27.350 --> 00:36:28.710 be recognize that there is

NOTE Confidence: 0.9314991

00:36:28.710 --> 00:36:30.655 respiratory distress. If the patient

NOTE Confidence: 0.9314991

00:36:30.939 --> 00:36:32.356 if the learners didn't do

NOTE Confidence: 0.9314991

00:36:32.356 --> 00:36:33.774 it, you go back to

NOTE Confidence: 0.9314991

00:36:33.774 --> 00:36:35.191 the beginning and do it

NOTE Confidence: 0.9314991

00:36:35.191 --> 00:36:36.609 again. Now they've recognized it  
NOTE Confidence: 0.9314991

00:36:36.609 --> 00:36:38.026 so they can go further  
NOTE Confidence: 0.9314991

00:36:38.026 --> 00:36:39.443 right up to backmask ventilation.  
NOTE Confidence: 0.9314991

00:36:39.443 --> 00:36:40.861 They get feedback, they go  
NOTE Confidence: 0.9314991

00:36:40.861 --> 00:36:42.279 back and then calling for  
NOTE Confidence: 0.9314991

00:36:42.279 --> 00:36:43.696 help using the braslo tape  
NOTE Confidence: 0.9314991

00:36:43.696 --> 00:36:44.619 intubating. So that way you  
NOTE Confidence: 0.9314991

00:36:44.619 --> 00:36:45.580 work your way through the  
NOTE Confidence: 0.9314991

00:36:45.580 --> 00:36:46.080 scenario.  
NOTE Confidence: 0.9957004

00:36:46.619 --> 00:36:47.980 If you're interested in learning  
NOTE Confidence: 0.9957004

00:36:47.980 --> 00:36:49.760 more about different debriefing styles,  
NOTE Confidence: 0.9957004

00:36:49.900 --> 00:36:51.119 I would actually recommend  
NOTE Confidence: 0.9523403

00:36:51.500 --> 00:36:52.540 this resource, which is the  
NOTE Confidence: 0.9523403

00:36:52.540 --> 00:36:54.080 Yale Center for Healthcare Simulation.  
NOTE Confidence: 0.99617225

00:36:55.739 --> 00:36:58.145 They have different debriefing courses,  
NOTE Confidence: 0.9933952

00:36:58.605 --> 00:36:59.885 for you available for you

NOTE Confidence: 0.9933952

00:36:59.885 --> 00:37:01.245 to take. I think all

NOTE Confidence: 0.9933952

00:37:01.245 --> 00:37:02.525 of us should, should take

NOTE Confidence: 0.9933952

00:37:02.525 --> 00:37:03.405 them. I think most of

NOTE Confidence: 0.9933952

00:37:03.405 --> 00:37:04.364 the people on the call

NOTE Confidence: 0.9933952

00:37:04.364 --> 00:37:05.805 actually have taken a course

NOTE Confidence: 0.9933952

00:37:05.805 --> 00:37:07.485 at the simulation center. I

NOTE Confidence: 0.9933952

00:37:07.485 --> 00:37:09.585 highly, highly recommend that.

NOTE Confidence: 0.99672836

00:37:12.900 --> 00:37:14.180 So we're doing so good

NOTE Confidence: 0.99672836

00:37:14.180 --> 00:37:15.300 with time. I'm so happy.

NOTE Confidence: 0.99672836

00:37:15.619 --> 00:37:16.500 So in the last part

NOTE Confidence: 0.99672836

00:37:16.500 --> 00:37:17.300 of this talk, I would

NOTE Confidence: 0.99672836

00:37:17.300 --> 00:37:18.420 like to just talk about

NOTE Confidence: 0.99672836

00:37:18.420 --> 00:37:19.940 a few applications of,

NOTE Confidence: 0.9020649

00:37:20.340 --> 00:37:22.420 of simulations here, integrating simulation

NOTE Confidence: 0.9020649

00:37:22.420 --> 00:37:24.359 based methods into your medical

NOTE Confidence: 0.9723161

00:37:24.660 --> 00:37:26.340 education activities. Now now that

NOTE Confidence: 0.9723161

00:37:26.340 --> 00:37:27.494 you have gone through all

NOTE Confidence: 0.9723161

00:37:27.494 --> 00:37:29.094 that background and theory that

NOTE Confidence: 0.9723161

00:37:29.094 --> 00:37:30.055 I just made you go

NOTE Confidence: 0.9723161

00:37:30.055 --> 00:37:30.555 through,

NOTE Confidence: 0.9716573

00:37:31.815 --> 00:37:33.255 let's talk about some practical,

NOTE Confidence: 0.9661352

00:37:35.494 --> 00:37:37.414 practical applications. So here you

NOTE Confidence: 0.9661352

00:37:37.414 --> 00:37:38.694 can see that you don't

NOTE Confidence: 0.9661352

00:37:38.694 --> 00:37:39.575 always have to have it

NOTE Confidence: 0.9661352

00:37:39.575 --> 00:37:40.454 like the person on the

NOTE Confidence: 0.9661352

00:37:40.454 --> 00:37:41.515 left where it looks

NOTE Confidence: 0.9413335

00:37:42.030 --> 00:37:43.310 very realistic like on a

NOTE Confidence: 0.9413335

00:37:43.310 --> 00:37:44.350 person, you can also just

NOTE Confidence: 0.9413335

00:37:44.350 --> 00:37:46.110 have a partial task trainer

NOTE Confidence: 0.9413335

00:37:46.110 --> 00:37:47.950 where you can learn suturing

NOTE Confidence: 0.9413335

00:37:47.950 --> 00:37:49.250 for example in this case.

NOTE Confidence: 0.99501884  
00:37:49.870 --> 00:37:51.330 Here you can see also  
NOTE Confidence: 0.94303405  
00:37:52.670 --> 00:37:53.969 doing the ear exam,  
NOTE Confidence: 0.8899185  
00:37:54.430 --> 00:37:56.175 ear exam task trainer, We  
NOTE Confidence: 0.8899185  
00:37:56.175 --> 00:37:57.715 have a lumbar puncture trans  
NOTE Confidence: 0.89818585  
00:37:58.015 --> 00:37:59.375 task trainer. And you can  
NOTE Confidence: 0.89818585  
00:37:59.375 --> 00:38:00.335 see actually myself when I  
NOTE Confidence: 0.89818585  
00:38:00.335 --> 00:38:01.614 was still a fellow doing  
NOTE Confidence: 0.89818585  
00:38:01.614 --> 00:38:03.795 a pericardial sentesis very excitedly.  
NOTE Confidence: 0.9945041  
00:38:05.295 --> 00:38:06.094 You can have the high  
NOTE Confidence: 0.9945041  
00:38:06.094 --> 00:38:07.315 technology simulators  
NOTE Confidence: 0.6981005  
00:38:07.695 --> 00:38:08.435 on the upper  
NOTE Confidence: 0.95772684  
00:38:09.039 --> 00:38:10.079 lower left. We see a  
NOTE Confidence: 0.95772684  
00:38:10.079 --> 00:38:11.519 simulation down in the PTCD  
NOTE Confidence: 0.95772684  
00:38:11.519 --> 00:38:12.559 and the equipment that we  
NOTE Confidence: 0.95772684  
00:38:12.559 --> 00:38:13.940 used on the upper right.  
NOTE Confidence: 0.95772684

00:38:14.000 --> 00:38:14.819 Very sophisticated.  
NOTE Confidence: 0.95929426

00:38:15.519 --> 00:38:16.880 You can have standardized patients,  
NOTE Confidence: 0.95929426

00:38:16.880 --> 00:38:18.480 which are extremely helpful as  
NOTE Confidence: 0.95929426

00:38:18.480 --> 00:38:20.660 well for our simulation practice.  
NOTE Confidence: 0.9805813

00:38:21.055 --> 00:38:22.515 There are screen based simulations.  
NOTE Confidence: 0.9805813

00:38:22.575 --> 00:38:23.375 This one is from the  
NOTE Confidence: 0.9805813

00:38:23.375 --> 00:38:24.975 PALS course that maybe a  
NOTE Confidence: 0.9805813

00:38:24.975 --> 00:38:25.855 lot of you have seen.  
NOTE Confidence: 0.9805813

00:38:25.855 --> 00:38:27.215 I certainly saw it recently  
NOTE Confidence: 0.9805813

00:38:27.215 --> 00:38:28.275 when I recertified.  
NOTE Confidence: 0.9906649

00:38:29.215 --> 00:38:30.495 This is another example of  
NOTE Confidence: 0.9906649

00:38:30.495 --> 00:38:31.795 a screen based disaster,  
NOTE Confidence: 0.99827415

00:38:32.735 --> 00:38:33.955 medicine simulation.  
NOTE Confidence: 0.99970186

00:38:34.750 --> 00:38:35.489 This one  
NOTE Confidence: 0.96394616

00:38:35.790 --> 00:38:36.830 here was when I took  
NOTE Confidence: 0.96394616

00:38:36.830 --> 00:38:38.030 my boot camp as a

NOTE Confidence: 0.96394616  
00:38:38.030 --> 00:38:39.150 fellow. You can see me  
NOTE Confidence: 0.96394616  
00:38:39.150 --> 00:38:40.270 in the right in the  
NOTE Confidence: 0.96394616  
00:38:40.270 --> 00:38:41.950 middle lower as I'm trying  
NOTE Confidence: 0.96394616  
00:38:41.950 --> 00:38:43.170 to manage those two patients,  
NOTE Confidence: 0.96394616  
00:38:43.230 --> 00:38:44.510 which is a mass casualty.  
NOTE Confidence: 0.96394616  
00:38:44.510 --> 00:38:45.390 So you can see that  
NOTE Confidence: 0.96394616  
00:38:45.390 --> 00:38:46.450 here many simulation  
NOTE Confidence: 0.9867557  
00:38:46.935 --> 00:38:48.375 scenarios were not only happening  
NOTE Confidence: 0.9867557  
00:38:48.375 --> 00:38:49.335 at the same time, but  
NOTE Confidence: 0.9867557  
00:38:49.335 --> 00:38:50.935 actually one participant had to  
NOTE Confidence: 0.9867557  
00:38:50.935 --> 00:38:52.295 handle different patients at the  
NOTE Confidence: 0.9867557  
00:38:52.295 --> 00:38:52.955 same time.  
NOTE Confidence: 0.98990154  
00:38:53.575 --> 00:38:55.335 Here's another example of a  
NOTE Confidence: 0.98990154  
00:38:55.335 --> 00:38:57.035 life mass casualty simulation.  
NOTE Confidence: 0.9971265  
00:38:57.495 --> 00:38:58.535 So you don't have to  
NOTE Confidence: 0.9971265

00:38:58.535 --> 00:38:59.655 all go out and do  
NOTE Confidence: 0.9971265

00:38:59.655 --> 00:38:59.975 these,  
NOTE Confidence: 0.96687603

00:39:00.535 --> 00:39:02.260 these big simulations, That is  
NOTE Confidence: 0.96687603

00:39:02.260 --> 00:39:03.400 a fun thing to think  
NOTE Confidence: 0.98504585

00:39:04.500 --> 00:39:05.940 about. Now a few nuggets  
NOTE Confidence: 0.98504585

00:39:05.940 --> 00:39:06.820 of things that we have  
NOTE Confidence: 0.98504585

00:39:06.820 --> 00:39:08.340 done at Yale. This one  
NOTE Confidence: 0.98504585

00:39:08.340 --> 00:39:09.460 is a corporation that I  
NOTE Confidence: 0.98504585

00:39:09.460 --> 00:39:10.420 did as a fellow with  
NOTE Confidence: 0.98504585

00:39:10.420 --> 00:39:11.700 Latvia. So this is already  
NOTE Confidence: 0.98504585

00:39:11.700 --> 00:39:12.580 a few years ago, but  
NOTE Confidence: 0.98504585

00:39:12.580 --> 00:39:13.780 it is still nice to  
NOTE Confidence: 0.98504585

00:39:13.780 --> 00:39:14.280 mention  
NOTE Confidence: 0.93463945

00:39:14.614 --> 00:39:15.575 where I was in at  
NOTE Confidence: 0.93463945

00:39:15.575 --> 00:39:16.775 Yale and I was co  
NOTE Confidence: 0.93463945

00:39:16.775 --> 00:39:18.555 facilitating with a team

NOTE Confidence: 0.9980713  
00:39:18.934 --> 00:39:19.755 in Latvia  
NOTE Confidence: 0.9978696  
00:39:20.055 --> 00:39:20.555 via  
NOTE Confidence: 0.97049713  
00:39:22.055 --> 00:39:23.575 Zoom, basically. Well, we used  
NOTE Confidence: 0.97049713  
00:39:23.575 --> 00:39:24.775 all different kind of platforms,  
NOTE Confidence: 0.97049713  
00:39:24.775 --> 00:39:25.655 but I think that's where  
NOTE Confidence: 0.97049713  
00:39:25.655 --> 00:39:26.315 we settled.  
NOTE Confidence: 0.99718213  
00:39:26.670 --> 00:39:27.790 So I was at Yale.  
NOTE Confidence: 0.99718213  
00:39:27.790 --> 00:39:29.730 The team was in Latvia.  
NOTE Confidence: 0.99718213  
00:39:29.869 --> 00:39:30.829 This is what it looked  
NOTE Confidence: 0.99718213  
00:39:30.829 --> 00:39:32.190 like. Basically, I had my  
NOTE Confidence: 0.99718213  
00:39:32.190 --> 00:39:32.690 computer.  
NOTE Confidence: 0.9938198  
00:39:33.390 --> 00:39:34.349 I could see the vital  
NOTE Confidence: 0.9938198  
00:39:34.349 --> 00:39:35.630 signs. I could actually run  
NOTE Confidence: 0.9938198  
00:39:35.630 --> 00:39:36.910 the simulator and,  
NOTE Confidence: 0.9642315  
00:39:37.549 --> 00:39:38.430 do all of these things.  
NOTE Confidence: 0.9642315

00:39:38.430 --> 00:39:39.469 And then for the debrief,  
NOTE Confidence: 0.9642315

00:39:39.469 --> 00:39:40.914 we had a a camera,  
NOTE Confidence: 0.9642315

00:39:40.914 --> 00:39:42.355 like a three sixty camera,  
NOTE Confidence: 0.9642315

00:39:42.355 --> 00:39:43.174 and I could  
NOTE Confidence: 0.99027336

00:39:43.474 --> 00:39:44.914 talk to my participants in  
NOTE Confidence: 0.99027336

00:39:44.914 --> 00:39:46.035 English. And they were also  
NOTE Confidence: 0.99027336

00:39:46.035 --> 00:39:47.315 speaking Latvian, which I didn't  
NOTE Confidence: 0.99027336

00:39:47.315 --> 00:39:48.594 understand. It was a great  
NOTE Confidence: 0.99027336

00:39:48.594 --> 00:39:49.094 experience.  
NOTE Confidence: 0.9987025

00:39:49.954 --> 00:39:51.174 You can see my screen.  
NOTE Confidence: 0.9889774

00:39:53.310 --> 00:39:54.590 Then just a cool little  
NOTE Confidence: 0.9889774

00:39:54.590 --> 00:39:55.469 tool that I wanted to  
NOTE Confidence: 0.9889774

00:39:55.469 --> 00:39:56.850 mention is the eye tracking.  
NOTE Confidence: 0.94589484

00:39:57.630 --> 00:39:58.670 You can see here, those  
NOTE Confidence: 0.94589484

00:39:58.670 --> 00:40:00.210 are the Tobii two glasses,  
NOTE Confidence: 0.9963772

00:40:00.590 --> 00:40:01.469 that we used in our

NOTE Confidence: 0.9963772

00:40:01.469 --> 00:40:02.930 research using eye tracking.

NOTE Confidence: 0.9368813

00:40:04.190 --> 00:40:05.550 You have four sensors in

NOTE Confidence: 0.9368813

00:40:05.550 --> 00:40:07.844 there, an integrated microphone and

NOTE Confidence: 0.9368813

00:40:07.925 --> 00:40:08.585 a screen

NOTE Confidence: 0.9425839

00:40:09.045 --> 00:40:09.545 camera,

NOTE Confidence: 0.9537023

00:40:10.244 --> 00:40:11.545 that can help you both

NOTE Confidence: 0.9537023

00:40:11.605 --> 00:40:12.645 so that you're able to

NOTE Confidence: 0.9537023

00:40:12.645 --> 00:40:14.165 see the environment, like, that's

NOTE Confidence: 0.9537023

00:40:14.165 --> 00:40:15.685 being recorded, and your eyeballs

NOTE Confidence: 0.9537023

00:40:15.685 --> 00:40:16.585 are being recorded.

NOTE Confidence: 0.9887274

00:40:17.685 --> 00:40:19.125 Maybe some people have actually

NOTE Confidence: 0.9887274

00:40:19.125 --> 00:40:21.045 already seen these guys, which

NOTE Confidence: 0.9887274

00:40:21.045 --> 00:40:21.545 are,

NOTE Confidence: 0.9995167

00:40:22.645 --> 00:40:23.820 which are glasses that

NOTE Confidence: 0.95249367

00:40:24.700 --> 00:40:25.739 some some people wear. I've

NOTE Confidence: 0.95249367

00:40:25.739 --> 00:40:26.540 I've seen it in the  
NOTE Confidence: 0.95249367

00:40:26.540 --> 00:40:27.660 hospital even. You can ask  
NOTE Confidence: 0.95249367

00:40:27.660 --> 00:40:29.739 it questions and it can  
NOTE Confidence: 0.95249367

00:40:29.739 --> 00:40:31.660 scan QR codes, take pictures  
NOTE Confidence: 0.95249367

00:40:31.660 --> 00:40:32.620 for you that you're looking  
NOTE Confidence: 0.95249367

00:40:32.620 --> 00:40:33.660 at. We can listen to  
NOTE Confidence: 0.95249367

00:40:33.660 --> 00:40:34.160 musics.  
NOTE Confidence: 0.92163014

00:40:34.540 --> 00:40:35.180 You can,  
NOTE Confidence: 0.9857834

00:40:35.980 --> 00:40:37.500 there's a voice command command  
NOTE Confidence: 0.9857834

00:40:37.500 --> 00:40:38.000 component.  
NOTE Confidence: 0.9386121

00:40:39.714 --> 00:40:41.234 So, basically, what did we  
NOTE Confidence: 0.9386121

00:40:41.234 --> 00:40:42.515 use it for in simulation?  
NOTE Confidence: 0.9386121

00:40:42.515 --> 00:40:43.395 I wanna show you a  
NOTE Confidence: 0.9386121

00:40:43.395 --> 00:40:45.555 video about that. Alright. So  
NOTE Confidence: 0.9386121

00:40:45.635 --> 00:40:47.075 yeah. Do you mind Absolutely.  
NOTE Confidence: 0.9386121

00:40:47.395 --> 00:40:49.075 That. Alright. There you go.

NOTE Confidence: 0.9386121  
00:40:49.075 --> 00:40:49.575 Perfect.  
NOTE Confidence: 0.8285778  
00:40:50.035 --> 00:40:51.450 See, that's the airway. Alright.  
NOTE Confidence: 0.8285778  
00:40:51.450 --> 00:40:52.310 There you go. Perfect.  
NOTE Confidence: 0.8695778  
00:40:55.170 --> 00:40:56.114 So you got the airway.  
NOTE Confidence: 0.8695778  
00:40:56.114 --> 00:40:56.220 Alright, mom. Any problems during  
NOTE Confidence: 0.8695778  
00:40:56.220 --> 00:40:56.327 your pregnancy? No? No? Okay.  
NOTE Confidence: 0.8695778  
00:40:56.327 --> 00:40:57.190 And what's baby's name?  
NOTE Confidence: 0.8000671  
00:40:58.450 --> 00:40:59.750 Jack. Jack. Jack. Okay.  
NOTE Confidence: 0.3598804  
00:41:01.170 --> 00:41:02.390 And bring it to Carta.  
NOTE Confidence: 0.69014686  
00:41:37.995 --> 00:41:39.995 Yeah. Sorry. Dodgerly after an  
NOTE Confidence: 0.69014686  
00:41:39.995 --> 00:41:40.495 abruption.  
NOTE Confidence: 0.68253255  
00:41:42.555 --> 00:41:43.055 No.  
NOTE Confidence: 0.99687386  
00:41:46.890 --> 00:41:47.869 Okay. So  
NOTE Confidence: 0.9812487  
00:41:48.569 --> 00:41:49.450 as you saw in this  
NOTE Confidence: 0.9812487  
00:41:49.450 --> 00:41:50.809 scenario, we were recording what  
NOTE Confidence: 0.9812487

00:41:50.809 --> 00:41:51.770 the person that was back  
NOTE Confidence: 0.9812487

00:41:51.770 --> 00:41:53.450 mass ventilating was looking at.  
NOTE Confidence: 0.9812487

00:41:53.450 --> 00:41:54.650 And on this heat map,  
NOTE Confidence: 0.9812487

00:41:54.650 --> 00:41:56.089 you can see the summary  
NOTE Confidence: 0.9812487

00:41:56.089 --> 00:41:57.210 of what the person was  
NOTE Confidence: 0.9812487

00:41:57.210 --> 00:41:58.329 looking at that was in  
NOTE Confidence: 0.9812487

00:41:58.329 --> 00:41:59.795 charge of back mass ventilation.  
NOTE Confidence: 0.9812487

00:42:00.015 --> 00:42:00.895 You can see how they  
NOTE Confidence: 0.9812487

00:42:00.895 --> 00:42:01.934 focus quite a bit on  
NOTE Confidence: 0.9812487

00:42:01.934 --> 00:42:03.934 the umbilical vein catheter insertion  
NOTE Confidence: 0.9812487

00:42:03.934 --> 00:42:05.214 because it just looks so  
NOTE Confidence: 0.9812487

00:42:05.214 --> 00:42:07.055 cool, but it does distract.  
NOTE Confidence: 0.9812487

00:42:07.055 --> 00:42:08.335 Right? So after this, we  
NOTE Confidence: 0.9812487

00:42:08.335 --> 00:42:09.694 did two more studies with  
NOTE Confidence: 0.9812487

00:42:09.694 --> 00:42:10.915 our team in Vienna.  
NOTE Confidence: 0.95717555

00:42:12.300 --> 00:42:13.580 One was just accepted for

NOTE Confidence: 0.95717555

00:42:13.580 --> 00:42:14.620 publication. The other one is

NOTE Confidence: 0.95717555

00:42:14.620 --> 00:42:16.480 under review looking at distractibility.

NOTE Confidence: 0.9805607

00:42:16.940 --> 00:42:18.380 So kind of fun if

NOTE Confidence: 0.9805607

00:42:18.380 --> 00:42:20.160 you're ever interested in collaborating

NOTE Confidence: 0.9805607

00:42:20.300 --> 00:42:21.600 with these type of studies.

NOTE Confidence: 0.98845524

00:42:23.594 --> 00:42:25.195 As the next, exciting thing

NOTE Confidence: 0.98845524

00:42:25.195 --> 00:42:26.155 we're doing at Yale, I

NOTE Confidence: 0.98845524

00:42:26.155 --> 00:42:27.535 would like to mention artificial

NOTE Confidence: 0.9997727

00:42:27.994 --> 00:42:28.494 intelligence

NOTE Confidence: 0.8995403

00:42:28.795 --> 00:42:29.535 and simulation.

NOTE Confidence: 0.9982938

00:42:30.075 --> 00:42:31.195 I'm sure you've all been

NOTE Confidence: 0.9982938

00:42:31.195 --> 00:42:32.234 exposed to it by now,

NOTE Confidence: 0.9982938

00:42:32.234 --> 00:42:33.275 and I'm pretty sure many

NOTE Confidence: 0.9982938

00:42:33.275 --> 00:42:34.395 of you have already seen

NOTE Confidence: 0.9982938

00:42:34.395 --> 00:42:36.255 a few presentations about it.

NOTE Confidence: 0.9982938

00:42:36.395 --> 00:42:37.355 So I would like to  
NOTE Confidence: 0.9982938

00:42:37.355 --> 00:42:37.855 focus  
NOTE Confidence: 0.99020404

00:42:38.719 --> 00:42:39.760 specifically on,  
NOTE Confidence: 0.9984203

00:42:40.160 --> 00:42:41.520 a study that we did  
NOTE Confidence: 0.9984203

00:42:41.520 --> 00:42:42.579 here at Yale.  
NOTE Confidence: 0.9229252

00:42:45.839 --> 00:42:47.460 So we actually used  
NOTE Confidence: 0.9199363

00:42:48.640 --> 00:42:49.839 a large language model to  
NOTE Confidence: 0.9199363

00:42:49.839 --> 00:42:51.299 make it easier for debriefers  
NOTE Confidence: 0.9199363

00:42:51.440 --> 00:42:53.075 to conduct the debriefs. So  
NOTE Confidence: 0.9199363

00:42:53.075 --> 00:42:55.154 our custom gbt, meaning a  
NOTE Confidence: 0.9199363

00:42:55.154 --> 00:42:56.755 large language model, almost like  
NOTE Confidence: 0.9199363

00:42:56.755 --> 00:42:57.634 you know how you I'm  
NOTE Confidence: 0.9199363

00:42:57.634 --> 00:42:58.355 not sure how much you  
NOTE Confidence: 0.9199363

00:42:58.355 --> 00:42:59.795 guys know about it. Okay  
NOTE Confidence: 0.9199363

00:42:59.795 --> 00:43:00.594 so if you have chat  
NOTE Confidence: 0.9199363

00:43:00.594 --> 00:43:01.714 gbt right you can ask

NOTE Confidence: 0.9199363  
00:43:01.714 --> 00:43:02.454 it questions  
NOTE Confidence: 0.9538519  
00:43:02.835 --> 00:43:04.355 chat gbt is based on  
NOTE Confidence: 0.9538519  
00:43:04.355 --> 00:43:05.394 all the knowledge but you  
NOTE Confidence: 0.9538519  
00:43:05.394 --> 00:43:07.360 can customize your GBT to  
NOTE Confidence: 0.9538519  
00:43:07.360 --> 00:43:08.640 a custom GBT where you  
NOTE Confidence: 0.9538519  
00:43:08.640 --> 00:43:09.700 just feed it,  
NOTE Confidence: 0.9095735  
00:43:10.640 --> 00:43:12.080 the information that we wanted  
NOTE Confidence: 0.9095735  
00:43:12.080 --> 00:43:12.960 to know. So I I  
NOTE Confidence: 0.9095735  
00:43:12.960 --> 00:43:14.239 gave it the information about  
NOTE Confidence: 0.9095735  
00:43:14.239 --> 00:43:16.180 the pearls debriefing framework, about  
NOTE Confidence: 0.9095735  
00:43:16.400 --> 00:43:17.940 non non excellent dental trauma,  
NOTE Confidence: 0.9868487  
00:43:18.239 --> 00:43:18.739 and  
NOTE Confidence: 0.98472124  
00:43:21.405 --> 00:43:23.325 that basically trains your the  
NOTE Confidence: 0.98472124  
00:43:23.325 --> 00:43:25.005 GPT that was then listening  
NOTE Confidence: 0.98472124  
00:43:25.005 --> 00:43:25.905 to our debrief.  
NOTE Confidence: 0.9629878

00:43:26.844 --> 00:43:27.805 You can see all the  
NOTE Confidence: 0.9629878

00:43:27.805 --> 00:43:28.925 roles on here. Right? We  
NOTE Confidence: 0.9629878

00:43:28.925 --> 00:43:29.885 have the laptop with a  
NOTE Confidence: 0.9629878

00:43:29.885 --> 00:43:30.705 custom GPT,  
NOTE Confidence: 0.9715012

00:43:31.245 --> 00:43:32.445 a large screen that would  
NOTE Confidence: 0.9715012

00:43:32.445 --> 00:43:34.620 later display the debrief, and,  
NOTE Confidence: 0.9715012

00:43:34.780 --> 00:43:36.300 actually a printer for more  
NOTE Confidence: 0.9715012

00:43:36.300 --> 00:43:37.820 old school people that might  
NOTE Confidence: 0.9715012

00:43:37.820 --> 00:43:39.120 want it in paper.  
NOTE Confidence: 0.95777684

00:43:41.020 --> 00:43:42.380 And yeah, that work is  
NOTE Confidence: 0.95777684

00:43:42.380 --> 00:43:43.820 is just under consideration right  
NOTE Confidence: 0.95777684

00:43:43.820 --> 00:43:44.940 now at a journal. And  
NOTE Confidence: 0.95777684

00:43:44.940 --> 00:43:46.560 we have another study  
NOTE Confidence: 0.88220924

00:43:46.860 --> 00:43:48.220 that's going out in in  
NOTE Confidence: 0.88220924

00:43:48.220 --> 00:43:48.960 that round.  
NOTE Confidence: 0.935989

00:43:51.295 --> 00:43:52.495 I know that Lindsay quickly

NOTE Confidence: 0.935989  
00:43:52.495 --> 00:43:54.735 mentioned the AI collaborative. I'm  
NOTE Confidence: 0.935989  
00:43:54.735 --> 00:43:56.015 going to post a little  
NOTE Confidence: 0.935989  
00:43:56.015 --> 00:43:57.215 link in the chat if  
NOTE Confidence: 0.935989  
00:43:57.215 --> 00:43:58.755 you're interested. This is just,  
NOTE Confidence: 0.9392133  
00:43:59.375 --> 00:44:00.495 a white paper that we  
NOTE Confidence: 0.9392133  
00:44:00.495 --> 00:44:02.175 wrote that that, the Society  
NOTE Confidence: 0.9392133  
00:44:02.175 --> 00:44:03.695 for Simulation Healthcare asked us  
NOTE Confidence: 0.9392133  
00:44:03.695 --> 00:44:04.890 for about the future of  
NOTE Confidence: 0.9392133  
00:44:04.890 --> 00:44:07.069 AI and in simulation education.  
NOTE Confidence: 0.91540325  
00:44:07.930 --> 00:44:09.530 It was edited by Omar  
NOTE Confidence: 0.91540325  
00:44:09.530 --> 00:44:11.309 Patel, Maria Bajwa and myself,  
NOTE Confidence: 0.98995584  
00:44:11.930 --> 00:44:13.049 and we had a huge  
NOTE Confidence: 0.98995584  
00:44:13.049 --> 00:44:14.890 group of diverse educators working  
NOTE Confidence: 0.98995584  
00:44:14.890 --> 00:44:15.950 on this piece. So  
NOTE Confidence: 0.9733313  
00:44:16.250 --> 00:44:17.690 we are quite excited that  
NOTE Confidence: 0.9733313

00:44:17.690 --> 00:44:19.549 this got published and out.

NOTE Confidence: 0.9729052

00:44:20.775 --> 00:44:22.454 Lastly, I would like to

NOTE Confidence: 0.9729052

00:44:22.454 --> 00:44:23.895 talk about our simulation team

NOTE Confidence: 0.9729052

00:44:23.895 --> 00:44:24.935 here at Yale, which is

NOTE Confidence: 0.9729052

00:44:24.935 --> 00:44:25.835 myself, Lindsay,

NOTE Confidence: 0.9305804

00:44:26.454 --> 00:44:28.135 and Mark, as well as

NOTE Confidence: 0.9305804

00:44:28.135 --> 00:44:29.915 Rabia and Lisa D'Alessignor.

NOTE Confidence: 0.9672702

00:44:30.694 --> 00:44:32.055 Shout out to the team

NOTE Confidence: 0.9672702

00:44:32.055 --> 00:44:33.275 doing a lot of simulations.

NOTE Confidence: 0.98412865

00:44:33.815 --> 00:44:35.114 We do medical simulations.

NOTE Confidence: 0.9278611

00:44:36.290 --> 00:44:37.570 They are usually doing the

NOTE Confidence: 0.9278611

00:44:37.570 --> 00:44:39.010 pediatric OB block. We use

NOTE Confidence: 0.9278611

00:44:39.010 --> 00:44:40.450 four sims in two sessions

NOTE Confidence: 0.9278611

00:44:40.450 --> 00:44:42.550 with two facilitators per sessions.

NOTE Confidence: 0.9288195

00:44:43.650 --> 00:44:44.950 The cases are,

NOTE Confidence: 0.96903926

00:44:46.770 --> 00:44:48.930 usually epilepsy, asthma, DKA, and

NOTE Confidence: 0.96903926

00:44:48.930 --> 00:44:50.635 coarctation of the aorta. This

NOTE Confidence: 0.96903926

00:44:50.635 --> 00:44:51.675 is after a lot of

NOTE Confidence: 0.96903926

00:44:51.675 --> 00:44:53.435 iterations over many years to

NOTE Confidence: 0.96903926

00:44:53.435 --> 00:44:54.715 see what works best best

NOTE Confidence: 0.96903926

00:44:54.715 --> 00:44:55.455 for our learners.

NOTE Confidence: 0.9965054

00:44:56.315 --> 00:44:57.195 We also have a lot

NOTE Confidence: 0.9965054

00:44:57.195 --> 00:44:58.955 of pediatric simulations going on

NOTE Confidence: 0.9965054

00:44:58.955 --> 00:45:00.075 with a lot of support

NOTE Confidence: 0.9965054

00:45:00.075 --> 00:45:01.595 from other faculty in other

NOTE Confidence: 0.9965054

00:45:01.595 --> 00:45:02.095 areas.

NOTE Confidence: 0.9854066

00:45:02.489 --> 00:45:03.770 There are Yale and Bridgeport

NOTE Confidence: 0.9854066

00:45:03.770 --> 00:45:04.270 simulations.

NOTE Confidence: 0.9171763

00:45:04.570 --> 00:45:06.510 We have floor simulations, PNCD,

NOTE Confidence: 0.9171763

00:45:06.650 --> 00:45:08.890 NICU, PICU, intern retreat, senior

NOTE Confidence: 0.9171763

00:45:08.890 --> 00:45:11.290 retreat, half days, procedural training,

NOTE Confidence: 0.9171763

00:45:11.290 --> 00:45:12.910 behavioral since trauma since  
NOTE Confidence: 0.9452783

00:45:13.210 --> 00:45:14.170 you name it, we're doing  
NOTE Confidence: 0.9452783

00:45:14.170 --> 00:45:16.010 it. And of course, with  
NOTE Confidence: 0.9452783

00:45:16.010 --> 00:45:17.094 the support of all this  
NOTE Confidence: 0.9452783

00:45:17.094 --> 00:45:18.695 amazing faculty that is helping  
NOTE Confidence: 0.9452783

00:45:18.695 --> 00:45:19.195 facilitate  
NOTE Confidence: 0.97844905

00:45:20.055 --> 00:45:21.915 them, the learner groups are  
NOTE Confidence: 0.9595634

00:45:22.375 --> 00:45:23.655 pretty much reflected also in  
NOTE Confidence: 0.9595634

00:45:23.655 --> 00:45:24.375 what you had put in  
NOTE Confidence: 0.9595634

00:45:24.375 --> 00:45:25.335 the chat who you are  
NOTE Confidence: 0.9595634

00:45:25.335 --> 00:45:26.855 teaching. So a lot of,  
NOTE Confidence: 0.8863514

00:45:27.495 --> 00:45:29.575 PEM fellows, NICU fellows, PICU  
NOTE Confidence: 0.8863514

00:45:29.575 --> 00:45:31.755 fellows, med peds, ED residents,  
NOTE Confidence: 0.756347

00:45:32.270 --> 00:45:32.770 OBPs,  
NOTE Confidence: 0.93405724

00:45:33.150 --> 00:45:34.609 EMS transport, and nurses.  
NOTE Confidence: 0.9728254

00:45:36.109 --> 00:45:37.810 In terms of systems simulations,

NOTE Confidence: 0.9552599

00:45:38.349 --> 00:45:39.869 our trauma simulations, which I

NOTE Confidence: 0.9552599

00:45:39.869 --> 00:45:41.069 actually really love doing. We

NOTE Confidence: 0.9552599

00:45:41.069 --> 00:45:42.530 do those every other month,

NOTE Confidence: 0.9552599

00:45:42.670 --> 00:45:43.170 multidisciplinary,

NOTE Confidence: 0.96009964

00:45:43.630 --> 00:45:45.864 where everybody responds from massive

NOTE Confidence: 0.96009964

00:45:45.864 --> 00:45:46.364 transfusion

NOTE Confidence: 0.9687067

00:45:46.665 --> 00:45:47.165 protocol,

NOTE Confidence: 0.89087355

00:45:48.025 --> 00:45:49.725 heme lab, x-ray techs,

NOTE Confidence: 0.9073775

00:45:50.025 --> 00:45:51.645 leadership comes. It's amazing.

NOTE Confidence: 0.9435425

00:45:52.425 --> 00:45:54.585 ECMO simulations are happening with

NOTE Confidence: 0.9435425

00:45:54.585 --> 00:45:56.185 PICU and NICU. We have

NOTE Confidence: 0.9435425

00:45:56.185 --> 00:45:57.864 office based simulations under the

NOTE Confidence: 0.9435425

00:45:57.864 --> 00:45:59.945 leadership of Rabia and also

NOTE Confidence: 0.9435425

00:45:59.945 --> 00:46:00.445 community

NOTE Confidence: 0.9905859

00:46:00.930 --> 00:46:03.190 outreach simulations at Greenwich Hospital.

NOTE Confidence: 0.9930911

00:46:04.050 --> 00:46:05.250 Something that's really dear to  
NOTE Confidence: 0.9930911

00:46:05.250 --> 00:46:06.530 me is that we are  
NOTE Confidence: 0.9930911

00:46:06.530 --> 00:46:07.650 doing a lot of scholarship  
NOTE Confidence: 0.9930911

00:46:07.650 --> 00:46:09.109 with trainees with our trainees,  
NOTE Confidence: 0.98362917

00:46:09.810 --> 00:46:11.569 with students, residents, fellows, and  
NOTE Confidence: 0.98362917

00:46:11.569 --> 00:46:12.550 junior faculty.  
NOTE Confidence: 0.9697714

00:46:13.089 --> 00:46:14.290 Currently, I'm working on a  
NOTE Confidence: 0.9697714

00:46:14.290 --> 00:46:15.665 study with Billy, you can  
NOTE Confidence: 0.9697714

00:46:15.665 --> 00:46:16.625 see on the lower left  
NOTE Confidence: 0.9697714

00:46:16.625 --> 00:46:17.605 side, and Ariel,  
NOTE Confidence: 0.97760314

00:46:18.465 --> 00:46:19.585 looking into peer,  
NOTE Confidence: 0.9813344

00:46:20.545 --> 00:46:22.325 peer teaching and simulation training.  
NOTE Confidence: 0.8381917

00:46:22.945 --> 00:46:24.085 Mateo is actually,  
NOTE Confidence: 0.9802858

00:46:25.025 --> 00:46:26.225 has a master's in AI,  
NOTE Confidence: 0.9802858

00:46:26.225 --> 00:46:27.265 so he's helping me with  
NOTE Confidence: 0.9802858

00:46:27.265 --> 00:46:28.805 all my AI stuff. So

NOTE Confidence: 0.9575558

00:46:29.380 --> 00:46:30.599 just brilliant. Brilliant.

NOTE Confidence: 0.96735406

00:46:31.060 --> 00:46:32.739 Shout out to Gunjan for

NOTE Confidence: 0.96735406

00:46:32.739 --> 00:46:34.580 implementing our DEI objectives in

NOTE Confidence: 0.96735406

00:46:34.580 --> 00:46:35.320 our simulations.

NOTE Confidence: 0.98755646

00:46:35.700 --> 00:46:37.140 So the simulations that you

NOTE Confidence: 0.98755646

00:46:37.140 --> 00:46:38.099 saw before we're doing with

NOTE Confidence: 0.98755646

00:46:38.099 --> 00:46:39.859 students, we're actually integrating a

NOTE Confidence: 0.98755646

00:46:39.859 --> 00:46:42.280 DEI curriculum for homelessness, undocumented

NOTE Confidence: 0.98410356

00:46:42.580 --> 00:46:44.739 status, language barrier, microaggression, which

NOTE Confidence: 0.98410356

00:46:44.739 --> 00:46:45.935 has been extremely

NOTE Confidence: 0.9961582

00:46:47.675 --> 00:46:48.175 successful.

NOTE Confidence: 0.94796276

00:46:48.715 --> 00:46:50.235 And we're gonna gonna close

NOTE Confidence: 0.94796276

00:46:50.235 --> 00:46:51.515 with some works in progress

NOTE Confidence: 0.94796276

00:46:51.515 --> 00:46:52.395 here, and then I'm gonna

NOTE Confidence: 0.94796276

00:46:52.395 --> 00:46:53.594 have some a little bit

NOTE Confidence: 0.94796276

00:46:53.594 --> 00:46:55.035 of time for questions. We  
NOTE Confidence: 0.94796276

00:46:55.035 --> 00:46:56.255 do faculty simulations.  
NOTE Confidence: 0.99947214

00:46:56.555 --> 00:46:57.215 We just  
NOTE Confidence: 0.96954656

00:46:57.810 --> 00:46:59.730 did our procedure simulations with  
NOTE Confidence: 0.96954656

00:46:59.730 --> 00:47:00.930 our PEM faculty, which was  
NOTE Confidence: 0.96954656

00:47:00.930 --> 00:47:01.430 awesome.  
NOTE Confidence: 0.96985996

00:47:03.090 --> 00:47:04.690 In fellow education, we are  
NOTE Confidence: 0.96985996

00:47:04.690 --> 00:47:06.210 hoping to more integrate PICU  
NOTE Confidence: 0.96985996

00:47:06.210 --> 00:47:07.830 simulations into the pediatric  
NOTE Confidence: 0.9416171

00:47:08.530 --> 00:47:10.364 curriculum under the leadership of  
NOTE Confidence: 0.9416171

00:47:10.445 --> 00:47:11.965 Lisa Del Signore. Then we  
NOTE Confidence: 0.9416171

00:47:11.965 --> 00:47:14.065 have trauma simulations for pediatric  
NOTE Confidence: 0.95831364

00:47:14.364 --> 00:47:15.485 residents, and that is under  
NOTE Confidence: 0.95831364

00:47:15.485 --> 00:47:17.105 the leadership of Sofia Athanasopolo  
NOTE Confidence: 0.95636743

00:47:17.405 --> 00:47:18.364 who's also on this call  
NOTE Confidence: 0.95636743

00:47:18.364 --> 00:47:18.864 today.

NOTE Confidence: 0.96493065

00:47:19.325 --> 00:47:21.485 So shout out, to Lisa

NOTE Confidence: 0.96493065

00:47:21.485 --> 00:47:23.105 and Sofia in the leadership.

NOTE Confidence: 0.9537604

00:47:25.010 --> 00:47:26.770 We are increasing academic half

NOTE Confidence: 0.9537604

00:47:26.770 --> 00:47:27.750 days with procedures

NOTE Confidence: 0.9403051

00:47:28.130 --> 00:47:29.650 as as that's something that's

NOTE Confidence: 0.9403051

00:47:29.650 --> 00:47:31.650 really needed. Allison Bradley is,

NOTE Confidence: 0.9403051

00:47:31.890 --> 00:47:33.569 helping us formalize the pediatric

NOTE Confidence: 0.9403051

00:47:33.569 --> 00:47:35.489 resident simulation curriculum to make

NOTE Confidence: 0.9403051

00:47:35.489 --> 00:47:36.150 it more,

NOTE Confidence: 0.93207616

00:47:36.609 --> 00:47:38.710 standardized over over the academic

NOTE Confidence: 0.93207616

00:47:38.770 --> 00:47:41.175 year, And doctor Tamila Hochreiter

NOTE Confidence: 0.93207616

00:47:41.234 --> 00:47:42.614 and her team are doing

NOTE Confidence: 0.93207616

00:47:42.755 --> 00:47:44.435 off our floor simulations, which

NOTE Confidence: 0.93207616

00:47:44.435 --> 00:47:46.275 are just a fantastic idea

NOTE Confidence: 0.93207616

00:47:46.275 --> 00:47:46.855 to do

NOTE Confidence: 0.8777623

00:47:47.234 --> 00:47:47.974 more simulations,  
NOTE Confidence: 0.8511537

00:47:48.275 --> 00:47:48.775 interdisciplinary,  
NOTE Confidence: 0.9738125

00:47:49.555 --> 00:47:50.594 with a focus on team  
NOTE Confidence: 0.9738125

00:47:50.594 --> 00:47:51.714 training. And there are many  
NOTE Confidence: 0.9738125

00:47:51.714 --> 00:47:53.070 more activities, and this is  
NOTE Confidence: 0.9738125

00:47:53.070 --> 00:47:54.030 it. Thank you so much  
NOTE Confidence: 0.9738125

00:47:54.030 --> 00:47:55.310 for your attention, and I  
NOTE Confidence: 0.9738125

00:47:55.310 --> 00:47:55.810 am  
NOTE Confidence: 0.99981236

00:47:56.270 --> 00:47:57.090 ready for  
NOTE Confidence: 0.9995862

00:47:57.950 --> 00:47:58.930 your questions.  
NOTE Confidence: 0.9681583

00:48:01.070 --> 00:48:02.510 Thank you so much, Isabel.  
NOTE Confidence: 0.9681583

00:48:02.510 --> 00:48:03.730 This was so impressive.  
NOTE Confidence: 0.9885621

00:48:04.205 --> 00:48:05.105 I I think,  
NOTE Confidence: 0.9690712

00:48:05.725 --> 00:48:07.745 you've created so much. Isabelle,  
NOTE Confidence: 0.9690712

00:48:07.965 --> 00:48:09.245 starting when I met her  
NOTE Confidence: 0.9690712

00:48:09.245 --> 00:48:10.445 as a fellow has been

NOTE Confidence: 0.9690712

00:48:10.445 --> 00:48:11.745 one of the most amazingly

NOTE Confidence: 0.9690712

00:48:11.965 --> 00:48:13.485 productive humans that I have

NOTE Confidence: 0.9690712

00:48:13.485 --> 00:48:14.305 ever encountered

NOTE Confidence: 0.9998511

00:48:14.844 --> 00:48:15.505 in life.

NOTE Confidence: 0.9865659

00:48:15.965 --> 00:48:17.165 So, Isabelle, I would love,

NOTE Confidence: 0.9713073

00:48:17.580 --> 00:48:18.719 if you could give some

NOTE Confidence: 0.9713073

00:48:18.780 --> 00:48:20.140 suggestions to our team. There

NOTE Confidence: 0.9713073

00:48:20.140 --> 00:48:21.020 are some people who have

NOTE Confidence: 0.9713073

00:48:21.020 --> 00:48:21.900 been doing this for a

NOTE Confidence: 0.9713073

00:48:21.900 --> 00:48:22.940 really long time. There are

NOTE Confidence: 0.9713073

00:48:22.940 --> 00:48:24.380 some, looking at the chat

NOTE Confidence: 0.9713073

00:48:24.380 --> 00:48:25.340 that are a little bit

NOTE Confidence: 0.9713073

00:48:25.340 --> 00:48:27.260 newer either to simulation or

NOTE Confidence: 0.9713073

00:48:27.260 --> 00:48:27.920 to Yale.

NOTE Confidence: 0.9922293

00:48:28.300 --> 00:48:29.580 How would you suggest that

NOTE Confidence: 0.9922293

00:48:29.580 --> 00:48:30.060 people,  
NOTE Confidence: 0.99270225

00:48:30.380 --> 00:48:32.265 most effectively get involved if  
NOTE Confidence: 0.99270225

00:48:32.344 --> 00:48:33.805 they're looking to either  
NOTE Confidence: 0.9931752

00:48:34.184 --> 00:48:35.144 develop a new,  
NOTE Confidence: 0.9991903

00:48:35.625 --> 00:48:36.765 educational program  
NOTE Confidence: 0.94012564

00:48:37.065 --> 00:48:38.984 involving simulation or they they  
NOTE Confidence: 0.94012564

00:48:38.984 --> 00:48:39.644 are really  
NOTE Confidence: 0.9857077

00:48:39.944 --> 00:48:41.625 wanting to dabble in what  
NOTE Confidence: 0.9857077

00:48:41.625 --> 00:48:43.325 are the opportunities in simulation  
NOTE Confidence: 0.9857077

00:48:43.385 --> 00:48:44.204 based research?  
NOTE Confidence: 0.93335193

00:48:45.230 --> 00:48:46.510 Where would be the places  
NOTE Confidence: 0.93335193

00:48:46.510 --> 00:48:48.109 to stop? This is a  
NOTE Confidence: 0.93335193

00:48:48.109 --> 00:48:49.230 really question that is really  
NOTE Confidence: 0.93335193

00:48:49.230 --> 00:48:50.109 dear to me. Thank you  
NOTE Confidence: 0.93335193

00:48:50.109 --> 00:48:51.309 so much, Lindsay, for asking  
NOTE Confidence: 0.93335193

00:48:51.309 --> 00:48:51.809 that.

NOTE Confidence: 0.9705055

00:48:52.829 --> 00:48:54.289 Reach out to me.

NOTE Confidence: 0.98461956

00:48:55.150 --> 00:48:55.950 Reach out to any of

NOTE Confidence: 0.98461956

00:48:55.950 --> 00:48:57.469 us. We actually love doing

NOTE Confidence: 0.98461956

00:48:57.469 --> 00:48:59.569 consultations. And depending on what

NOTE Confidence: 0.9695712

00:48:59.955 --> 00:49:01.315 area you're interested in, if

NOTE Confidence: 0.9695712

00:49:01.315 --> 00:49:02.835 it's more curriculum development, you

NOTE Confidence: 0.9695712

00:49:02.835 --> 00:49:04.035 might be talking to Lindsay.

NOTE Confidence: 0.9695712

00:49:04.035 --> 00:49:05.094 If it's more about,

NOTE Confidence: 0.89958155

00:49:05.795 --> 00:49:07.395 specific in situ simulations, you

NOTE Confidence: 0.89958155

00:49:07.395 --> 00:49:08.435 might be talking to Mark

NOTE Confidence: 0.89958155

00:49:08.435 --> 00:49:09.975 Auerbach. If it's more for,

NOTE Confidence: 0.95625687

00:49:10.435 --> 00:49:12.775 distance simulation technology enhanced simulations,

NOTE Confidence: 0.95625687

00:49:12.915 --> 00:49:13.875 you might be talking to

NOTE Confidence: 0.95625687

00:49:13.875 --> 00:49:14.980 me. All of us are

NOTE Confidence: 0.95625687

00:49:14.980 --> 00:49:16.360 able to give you resources

NOTE Confidence: 0.95625687

00:49:16.500 --> 00:49:17.860 in where to start, such

NOTE Confidence: 0.95625687

00:49:17.860 --> 00:49:19.940 as your first starting point

NOTE Confidence: 0.95625687

00:49:19.940 --> 00:49:21.320 should probably be a debriefing

NOTE Confidence: 0.95625687

00:49:21.380 --> 00:49:23.219 course. So I would highly

NOTE Confidence: 0.95625687

00:49:23.219 --> 00:49:24.260 recommend that if you are

NOTE Confidence: 0.95625687

00:49:24.260 --> 00:49:25.780 doing medical education and you

NOTE Confidence: 0.95625687

00:49:25.780 --> 00:49:27.620 are considering doing some sims

NOTE Confidence: 0.95625687

00:49:27.620 --> 00:49:28.944 at some point, that you

NOTE Confidence: 0.95625687

00:49:28.944 --> 00:49:30.785 take that class that, the

NOTE Confidence: 0.95625687

00:49:30.785 --> 00:49:32.145 center for simulation health care

NOTE Confidence: 0.95625687

00:49:32.145 --> 00:49:32.805 is offering.

NOTE Confidence: 0.99558306

00:49:33.105 --> 00:49:34.145 And after that, we can

NOTE Confidence: 0.99558306

00:49:34.145 --> 00:49:35.505 really tailor everything to your

NOTE Confidence: 0.99558306

00:49:35.505 --> 00:49:37.344 needs. The simulation center has

NOTE Confidence: 0.99558306

00:49:37.344 --> 00:49:39.984 amazing technicians and support personnel

NOTE Confidence: 0.99558306

00:49:39.984 --> 00:49:40.704 that can do a lot  
NOTE Confidence: 0.99558306

00:49:40.704 --> 00:49:41.844 of things for you.  
NOTE Confidence: 0.9806781

00:49:42.920 --> 00:49:44.200 So that's, where I would  
NOTE Confidence: 0.9806781

00:49:44.200 --> 00:49:44.700 start.  
NOTE Confidence: 0.98058134

00:49:47.160 --> 00:49:48.759 That's a great opportunity to  
NOTE Confidence: 0.98058134

00:49:48.759 --> 00:49:50.279 be able to utilize this,  
NOTE Confidence: 0.98058134

00:49:50.519 --> 00:49:51.739 educational methodology,  
NOTE Confidence: 0.9988091

00:49:52.759 --> 00:49:53.819 not only for  
NOTE Confidence: 0.9183446

00:49:54.119 --> 00:49:56.519 education as Isabelle had, reviewed  
NOTE Confidence: 0.9183446

00:49:56.519 --> 00:49:58.224 all of the really helpful  
NOTE Confidence: 0.9183446

00:49:58.224 --> 00:49:59.585 things in adult learning theory  
NOTE Confidence: 0.9183446

00:49:59.585 --> 00:50:00.645 why this is supported,  
NOTE Confidence: 0.9871235

00:50:01.344 --> 00:50:02.465 but to be able to  
NOTE Confidence: 0.9871235

00:50:02.465 --> 00:50:02.965 get,  
NOTE Confidence: 0.9976172

00:50:03.825 --> 00:50:04.325 your  
NOTE Confidence: 0.977923

00:50:04.625 --> 00:50:05.984 your work out there. And

NOTE Confidence: 0.977923

00:50:05.984 --> 00:50:07.505 Isabel had noted a couple

NOTE Confidence: 0.977923

00:50:07.505 --> 00:50:08.724 of the different organizations

NOTE Confidence: 0.9751539

00:50:10.010 --> 00:50:10.650 that exist.

NOTE Confidence: 0.99119884

00:50:10.969 --> 00:50:13.530 The International Pediatric Simulation Society

NOTE Confidence: 0.99119884

00:50:13.530 --> 00:50:15.290 is a very welcoming and

NOTE Confidence: 0.99119884

00:50:15.290 --> 00:50:18.270 friendly international group of education,

NOTE Confidence: 0.97971016

00:50:19.210 --> 00:50:21.310 providers and simulation based researchers.

NOTE Confidence: 0.97971016

00:50:21.369 --> 00:50:23.205 So if you're looking to

NOTE Confidence: 0.97971016

00:50:23.364 --> 00:50:25.285 get yourself a reputation like

NOTE Confidence: 0.97971016

00:50:25.285 --> 00:50:26.505 most of us are when

NOTE Confidence: 0.97971016

00:50:26.565 --> 00:50:28.005 we're going up the promotional

NOTE Confidence: 0.97971016

00:50:28.005 --> 00:50:28.965 ladder at Yale, that's a

NOTE Confidence: 0.97971016

00:50:28.965 --> 00:50:30.805 really nice group to engage

NOTE Confidence: 0.97971016

00:50:30.805 --> 00:50:32.745 with because you're getting international

NOTE Confidence: 0.97971016

00:50:32.965 --> 00:50:34.265 connections and reputation.

NOTE Confidence: 0.93398374

00:50:35.125 --> 00:50:36.645 The Society for Simulation and  
NOTE Confidence: 0.93398374

00:50:36.645 --> 00:50:38.105 Health Care is one that  
NOTE Confidence: 0.93398374

00:50:38.369 --> 00:50:39.109 is inclusive  
NOTE Confidence: 0.98852617

00:50:39.890 --> 00:50:40.849 of all people who do  
NOTE Confidence: 0.98852617

00:50:40.849 --> 00:50:42.549 simulation, not just in pediatrics.  
NOTE Confidence: 0.8810164

00:50:43.410 --> 00:50:43.910 INSPIRE,  
NOTE Confidence: 0.95392066

00:50:44.210 --> 00:50:45.730 Isabelle is really one of  
NOTE Confidence: 0.95392066

00:50:45.730 --> 00:50:47.190 the one of the leaders  
NOTE Confidence: 0.95392066

00:50:47.250 --> 00:50:47.910 of INSPIRE,  
NOTE Confidence: 0.97371596

00:50:48.849 --> 00:50:50.450 which is an international network  
NOTE Confidence: 0.97371596

00:50:50.450 --> 00:50:52.450 also really focused on research.  
NOTE Confidence: 0.97371596

00:50:52.450 --> 00:50:53.645 So for all of us  
NOTE Confidence: 0.97371596

00:50:53.645 --> 00:50:54.925 as we're thinking about,  
NOTE Confidence: 0.99457496

00:50:55.405 --> 00:50:57.244 our our professional development and  
NOTE Confidence: 0.99457496

00:50:57.244 --> 00:50:59.085 our promotional pathway thank you,  
NOTE Confidence: 0.99457496

00:50:59.085 --> 00:51:00.285 Isabelle. She's putting all these

NOTE Confidence: 0.99457496

00:51:00.285 --> 00:51:01.425 things right in the chat.

NOTE Confidence: 0.99457496

00:51:01.724 --> 00:51:03.265 These are really great opportunities

NOTE Confidence: 0.99457496

00:51:03.405 --> 00:51:04.285 for you to get your

NOTE Confidence: 0.99457496

00:51:04.285 --> 00:51:05.700 name out there. And when

NOTE Confidence: 0.99457496

00:51:05.700 --> 00:51:06.820 you're trying to figure out

NOTE Confidence: 0.99457496

00:51:06.820 --> 00:51:08.500 people to collaborate with, projects

NOTE Confidence: 0.99457496

00:51:08.500 --> 00:51:09.540 to get involved with, people

NOTE Confidence: 0.99457496

00:51:09.540 --> 00:51:10.900 to potentially write you letters

NOTE Confidence: 0.99457496

00:51:10.900 --> 00:51:11.560 for promotion,

NOTE Confidence: 0.99946207

00:51:12.340 --> 00:51:13.540 these have really opened up

NOTE Confidence: 0.99946207

00:51:13.540 --> 00:51:14.420 doors for a lot of

NOTE Confidence: 0.99946207

00:51:14.420 --> 00:51:15.719 the members of our community.

NOTE Confidence: 0.977426

00:51:16.580 --> 00:51:17.780 You can also, of course,

NOTE Confidence: 0.977426

00:51:17.780 --> 00:51:19.385 get involved with doing, with

NOTE Confidence: 0.977426

00:51:19.385 --> 00:51:20.905 getting on the board, getting

NOTE Confidence: 0.977426

00:51:20.905 --> 00:51:22.685 involved in comedy work, and  
NOTE Confidence: 0.977426

00:51:22.825 --> 00:51:24.185 that's also really helpful for  
NOTE Confidence: 0.977426

00:51:24.185 --> 00:51:25.385 promotion. I think Sofia is  
NOTE Confidence: 0.977426

00:51:25.385 --> 00:51:26.364 raising her hand.  
NOTE Confidence: 0.96475

00:51:28.665 --> 00:51:29.705 Thank you, Isabelle, for the  
NOTE Confidence: 0.96475

00:51:29.705 --> 00:51:30.765 wonderful presentation.  
NOTE Confidence: 0.99850816

00:51:31.385 --> 00:51:32.525 Along those lines,  
NOTE Confidence: 0.9700365

00:51:33.339 --> 00:51:34.559 any advice on  
NOTE Confidence: 0.993502

00:51:34.859 --> 00:51:36.940 presenting your simulation work on  
NOTE Confidence: 0.993502

00:51:36.940 --> 00:51:38.619 your CV and how to  
NOTE Confidence: 0.993502

00:51:38.619 --> 00:51:40.780 kind of organize those things  
NOTE Confidence: 0.993502

00:51:40.780 --> 00:51:41.280 for  
NOTE Confidence: 0.9574072

00:51:41.739 --> 00:51:42.700 when you're applying for a  
NOTE Confidence: 0.9574072

00:51:42.700 --> 00:51:43.900 job or when you're asking  
NOTE Confidence: 0.9574072

00:51:43.900 --> 00:51:44.559 for promotion?  
NOTE Confidence: 0.9355627

00:51:44.859 --> 00:51:46.540 Presentation of the scholarly work,

NOTE Confidence: 0.9355627

00:51:46.540 --> 00:51:47.660 I would say, in general

NOTE Confidence: 0.9355627

00:51:47.660 --> 00:51:48.960 for your CV. Sorry.

NOTE Confidence: 0.9177702

00:51:49.795 --> 00:51:50.835 I'm happy to look at

NOTE Confidence: 0.9177702

00:51:50.835 --> 00:51:52.535 everybody's CV that are educational.

NOTE Confidence: 0.98905194

00:51:54.114 --> 00:51:55.235 It is very important that

NOTE Confidence: 0.98905194

00:51:55.235 --> 00:51:56.114 you really keep track of

NOTE Confidence: 0.98905194

00:51:56.114 --> 00:51:57.155 it, Sofia. So I'm very

NOTE Confidence: 0.98905194

00:51:57.155 --> 00:51:58.435 glad that you're pointing this

NOTE Confidence: 0.98905194

00:51:58.435 --> 00:51:59.555 out. A lot of our

NOTE Confidence: 0.98905194

00:51:59.555 --> 00:52:01.075 activities go in the CV

NOTE Confidence: 0.98905194

00:52:01.075 --> 00:52:02.355 part two, which is equally

NOTE Confidence: 0.98905194

00:52:02.355 --> 00:52:02.855 important,

NOTE Confidence: 0.9991999

00:52:03.840 --> 00:52:04.960 where you can really have

NOTE Confidence: 0.9991999

00:52:04.960 --> 00:52:05.920 more of a narrative of

NOTE Confidence: 0.9991999

00:52:05.920 --> 00:52:06.720 what you're doing.

NOTE Confidence: 0.9767292

00:52:07.280 --> 00:52:09.520 It is crucial, especially with  
NOTE Confidence: 0.9767292

00:52:09.520 --> 00:52:11.120 simulation activities, that you are  
NOTE Confidence: 0.9767292

00:52:11.120 --> 00:52:11.860 very, very,  
NOTE Confidence: 0.96926636

00:52:12.720 --> 00:52:14.000 very good about keeping track  
NOTE Confidence: 0.96926636

00:52:14.000 --> 00:52:14.880 of things. I know that  
NOTE Confidence: 0.96926636

00:52:14.880 --> 00:52:16.080 actually Melissa has a good  
NOTE Confidence: 0.96926636

00:52:16.080 --> 00:52:17.200 system in keeping track of  
NOTE Confidence: 0.96926636

00:52:17.200 --> 00:52:18.675 things as well, and so  
NOTE Confidence: 0.96926636

00:52:18.675 --> 00:52:19.795 do I. As soon as  
NOTE Confidence: 0.96926636

00:52:19.795 --> 00:52:20.755 you do it, make sure  
NOTE Confidence: 0.96926636

00:52:20.755 --> 00:52:21.875 it gets on your CV  
NOTE Confidence: 0.96926636

00:52:21.875 --> 00:52:23.075 because as if you're a  
NOTE Confidence: 0.96926636

00:52:23.075 --> 00:52:24.355 bench researcher, you might be  
NOTE Confidence: 0.96926636

00:52:24.355 --> 00:52:25.795 publishing in nature every five  
NOTE Confidence: 0.96926636

00:52:25.795 --> 00:52:27.094 years, and that's good enough.  
NOTE Confidence: 0.9900904

00:52:27.795 --> 00:52:29.235 I publish probably ten times

NOTE Confidence: 0.9900904

00:52:29.235 --> 00:52:30.435 a year, and it's really

NOTE Confidence: 0.9900904

00:52:30.435 --> 00:52:31.255 easy to

NOTE Confidence: 0.9726261

00:52:31.719 --> 00:52:32.760 completely keep track of all

NOTE Confidence: 0.9726261

00:52:32.760 --> 00:52:33.960 the posters you're doing, the

NOTE Confidence: 0.9726261

00:52:33.960 --> 00:52:35.660 talks you're giving, the scenario

NOTE Confidence: 0.9726261

00:52:35.719 --> 00:52:37.400 designs you're doing, just all

NOTE Confidence: 0.9726261

00:52:37.400 --> 00:52:39.080 the work you're doing. I

NOTE Confidence: 0.9726261

00:52:39.080 --> 00:52:40.440 personally have a running document

NOTE Confidence: 0.9726261

00:52:40.440 --> 00:52:41.239 where I just write things

NOTE Confidence: 0.9726261

00:52:41.239 --> 00:52:42.520 down, especially now doing my

NOTE Confidence: 0.9726261

00:52:42.520 --> 00:52:44.300 sabbatical time. I write down

NOTE Confidence: 0.98126614

00:52:44.614 --> 00:52:46.315 every month just little notes

NOTE Confidence: 0.98126614

00:52:46.535 --> 00:52:47.414 so you don't have to

NOTE Confidence: 0.98126614

00:52:47.414 --> 00:52:48.694 feel the pressure of updating

NOTE Confidence: 0.98126614

00:52:48.694 --> 00:52:49.835 your actual CV.

NOTE Confidence: 0.961718

00:52:51.174 --> 00:52:52.295 Lindsey, do you have any  
NOTE Confidence: 0.961718

00:52:52.295 --> 00:52:53.895 recommendations from your standpoint for  
NOTE Confidence: 0.961718

00:52:53.895 --> 00:52:55.094 your simulation work, how you  
NOTE Confidence: 0.961718

00:52:55.094 --> 00:52:56.315 presented on your CV?  
NOTE Confidence: 0.94193876

00:52:56.950 --> 00:52:58.550 Well, I'm similar. For any  
NOTE Confidence: 0.94193876

00:52:58.550 --> 00:52:59.530 of my conferences,  
NOTE Confidence: 0.99936914

00:53:00.070 --> 00:53:01.750 I make a reminder to  
NOTE Confidence: 0.99936914

00:53:01.750 --> 00:53:02.250 myself  
NOTE Confidence: 0.9693819

00:53:02.870 --> 00:53:04.150 in my notes. So when  
NOTE Confidence: 0.9693819

00:53:04.150 --> 00:53:05.110 I'm on the plane going  
NOTE Confidence: 0.9693819

00:53:05.110 --> 00:53:06.410 home, I put the presentations  
NOTE Confidence: 0.9693819

00:53:06.630 --> 00:53:08.550 or the abstracts in in  
NOTE Confidence: 0.9693819

00:53:08.550 --> 00:53:10.730 the CV because Isabelle's absolutely  
NOTE Confidence: 0.9693819

00:53:10.870 --> 00:53:12.330 correct. You will just forget.  
NOTE Confidence: 0.9881765

00:53:13.065 --> 00:53:14.905 I think keeping track in  
NOTE Confidence: 0.9881765

00:53:14.905 --> 00:53:16.585 your CV part two about

NOTE Confidence: 0.9881765

00:53:16.585 --> 00:53:18.425 what sort of educational activities

NOTE Confidence: 0.9881765

00:53:18.425 --> 00:53:20.265 you're you're giving, how many

NOTE Confidence: 0.9881765

00:53:20.265 --> 00:53:22.045 learners, what types of learners,

NOTE Confidence: 0.964894

00:53:22.344 --> 00:53:24.045 if you're helping to mentor

NOTE Confidence: 0.964894

00:53:24.105 --> 00:53:26.265 somebody who's developing, these are

NOTE Confidence: 0.964894

00:53:26.265 --> 00:53:27.165 all really important,

NOTE Confidence: 0.9976209

00:53:27.670 --> 00:53:29.030 and then getting some sort

NOTE Confidence: 0.9976209

00:53:29.030 --> 00:53:29.850 of feedback.

NOTE Confidence: 0.97924423

00:53:30.230 --> 00:53:31.670 So if you're going through

NOTE Confidence: 0.97924423

00:53:31.670 --> 00:53:32.710 our department or you're going

NOTE Confidence: 0.97924423

00:53:32.710 --> 00:53:34.150 through the sim center, they're

NOTE Confidence: 0.97924423

00:53:34.150 --> 00:53:35.750 giving surveys. You may have

NOTE Confidence: 0.97924423

00:53:35.750 --> 00:53:37.210 to give your own surveys

NOTE Confidence: 0.989987

00:53:37.590 --> 00:53:39.110 if you're presenting somewhere else,

NOTE Confidence: 0.989987

00:53:39.110 --> 00:53:40.710 but having these these other

NOTE Confidence: 0.989987

00:53:40.710 --> 00:53:42.390 pieces of supporting evidence that  
NOTE Confidence: 0.989987

00:53:42.390 --> 00:53:43.895 you've had an impact, that  
NOTE Confidence: 0.989987

00:53:43.895 --> 00:53:45.494 can be really helpful. And  
NOTE Confidence: 0.989987

00:53:45.494 --> 00:53:46.855 I wanna hear about Melissa's  
NOTE Confidence: 0.989987

00:53:46.855 --> 00:53:47.355 system.  
NOTE Confidence: 0.97615737

00:53:48.215 --> 00:53:49.415 Tell us, Melissa, what is  
NOTE Confidence: 0.97615737

00:53:49.415 --> 00:53:50.075 your system?  
NOTE Confidence: 0.9687596

00:53:50.695 --> 00:53:52.135 Generally, when something comes through,  
NOTE Confidence: 0.9687596

00:53:52.135 --> 00:53:53.335 I just immediately put it  
NOTE Confidence: 0.9687596

00:53:53.335 --> 00:53:54.695 on my CV site over  
NOTE Confidence: 0.9687596

00:53:54.695 --> 00:53:56.070 again. But I do use,  
NOTE Confidence: 0.9687596

00:53:56.230 --> 00:53:57.430 like, a Trello board just  
NOTE Confidence: 0.9687596

00:53:57.430 --> 00:53:58.730 to keep track of everything,  
NOTE Confidence: 0.9687596

00:53:59.030 --> 00:54:00.489 and that also helps me,  
NOTE Confidence: 0.96867967

00:54:01.190 --> 00:54:02.650 just, gosh, remember  
NOTE Confidence: 0.9478252

00:54:02.950 --> 00:54:04.230 all the little pieces. And

NOTE Confidence: 0.9478252  
00:54:04.230 --> 00:54:05.430 then I can backtrack to  
NOTE Confidence: 0.9478252  
00:54:05.430 --> 00:54:06.150 it too to make sure  
NOTE Confidence: 0.9478252  
00:54:06.150 --> 00:54:07.210 things are getting updated.  
NOTE Confidence: 0.9819943  
00:54:07.989 --> 00:54:08.489 Yeah.  
NOTE Confidence: 0.99932337  
00:54:09.174 --> 00:54:10.714 Does anybody else have suggestions  
NOTE Confidence: 0.99932337  
00:54:10.855 --> 00:54:12.154 for how to keep yourselves  
NOTE Confidence: 0.9816309  
00:54:12.775 --> 00:54:14.535 organized? Because it's so easy.  
NOTE Confidence: 0.9816309  
00:54:14.535 --> 00:54:15.815 We do so many things  
NOTE Confidence: 0.9816309  
00:54:15.815 --> 00:54:17.255 every day that if you  
NOTE Confidence: 0.9816309  
00:54:17.255 --> 00:54:18.694 don't have some sort of  
NOTE Confidence: 0.9816309  
00:54:18.694 --> 00:54:19.674 method to  
NOTE Confidence: 0.9849356  
00:54:20.055 --> 00:54:21.414 put these into your queue  
NOTE Confidence: 0.9849356  
00:54:21.414 --> 00:54:22.535 so they get added, it's  
NOTE Confidence: 0.9849356  
00:54:22.535 --> 00:54:23.755 really easy to forget.  
NOTE Confidence: 0.9860012  
00:54:31.150 --> 00:54:32.830 No other brilliant ideas. If  
NOTE Confidence: 0.9860012

00:54:32.830 --> 00:54:34.350 anybody thinks of anything after  
NOTE Confidence: 0.9860012

00:54:34.350 --> 00:54:35.390 the fact and wants to  
NOTE Confidence: 0.9860012

00:54:35.390 --> 00:54:36.590 share, let us know. We  
NOTE Confidence: 0.9860012

00:54:36.590 --> 00:54:38.015 can certainly push it out.  
NOTE Confidence: 0.99967784

00:54:38.555 --> 00:54:39.835 But that's a really important  
NOTE Confidence: 0.99967784

00:54:39.835 --> 00:54:41.775 part of our professional development  
NOTE Confidence: 0.96063244

00:54:42.474 --> 00:54:43.434 that is really good to  
NOTE Confidence: 0.96063244

00:54:43.434 --> 00:54:44.635 consider. Sofia, thank you so  
NOTE Confidence: 0.96063244

00:54:44.635 --> 00:54:46.414 much for that awesome question.  
NOTE Confidence: 0.9481161

00:54:47.035 --> 00:54:48.734 Any other questions for Isabel?  
NOTE Confidence: 0.9578938

00:54:50.040 --> 00:54:51.080 Probably have time for one  
NOTE Confidence: 0.9578938

00:54:51.080 --> 00:54:51.820 more if  
NOTE Confidence: 0.9796068

00:54:52.360 --> 00:54:53.640 if there's anything that's on  
NOTE Confidence: 0.9796068

00:54:53.640 --> 00:54:54.620 somebody's mind.  
NOTE Confidence: 0.9878559

00:55:01.719 --> 00:55:03.100 Or we're gonna give everybody  
NOTE Confidence: 0.9878559

00:55:03.160 --> 00:55:04.600 two minutes back in their

NOTE Confidence: 0.9878559

00:55:04.600 --> 00:55:05.100 afternoons.

NOTE Confidence: 0.98580235

00:55:06.155 --> 00:55:07.114 Thank you so much. It

NOTE Confidence: 0.98580235

00:55:07.114 --> 00:55:08.075 was so great to see

NOTE Confidence: 0.98580235

00:55:08.075 --> 00:55:09.775 everybody here. Appreciate,

NOTE Confidence: 0.9750143

00:55:10.315 --> 00:55:12.575 your engagement and especially appreciate

NOTE Confidence: 0.9750143

00:55:12.635 --> 00:55:14.415 Isabelle sharing all this wonderful

NOTE Confidence: 0.9750143

00:55:14.474 --> 00:55:15.994 information and her knowledge and

NOTE Confidence: 0.9750143

00:55:15.994 --> 00:55:17.835 expertise with us. What a

NOTE Confidence: 0.9750143

00:55:17.835 --> 00:55:19.275 great way to spend my

NOTE Confidence: 0.9750143

00:55:19.275 --> 00:55:19.775 Monday.

NOTE Confidence: 0.99942183

00:55:20.395 --> 00:55:21.435 Thank you so much for

NOTE Confidence: 0.99942183

00:55:21.435 --> 00:55:22.575 coming. Bye bye.

NOTE Confidence: 0.6835389

00:55:23.035 --> 00:55:23.535 Sure.