

WEBVTT

NOTE duration:"00:52:42"

NOTE recognizability:0.933

NOTE language:en-us

NOTE Confidence: 0.937737685

00:00:00.000 --> 00:00:01.420 So the next session,

NOTE Confidence: 0.937737685

00:00:01.420 --> 00:00:04.040 this panel is called Play Like a Pro,

NOTE Confidence: 0.937737685

00:00:04.040 --> 00:00:06.116 best practices for Virtual Care Education.

NOTE Confidence: 0.937737685

00:00:06.120 --> 00:00:07.248 Here we thought we would immerse

NOTE Confidence: 0.937737685

00:00:07.248 --> 00:00:09.848 our learners in a little bit

NOTE Confidence: 0.937737685

00:00:09.848 --> 00:00:12.240 more of an actual sense of Okay.

NOTE Confidence: 0.937737685

00:00:12.240 --> 00:00:13.060 We've talked in theory about

NOTE Confidence: 0.937737685

00:00:13.060 --> 00:00:13.880 a lot of these things.

NOTE Confidence: 0.937737685

00:00:13.880 --> 00:00:15.770 Let's talk in practice about what

NOTE Confidence: 0.937737685

00:00:15.770 --> 00:00:18.158 works well and what doesn't work well.

NOTE Confidence: 0.937737685

00:00:18.160 --> 00:00:20.687 And we're very fortunate to have Doctor

NOTE Confidence: 0.937737685

00:00:20.687 --> 00:00:23.492 Toya James Stevenson here with us from

NOTE Confidence: 0.937737685

00:00:23.492 --> 00:00:25.148 Indiana University Health Physicians.

NOTE Confidence: 0.937737685

00:00:25.150 --> 00:00:27.845 Again, I'm I met her through this  
NOTE Confidence: 0.937737685

00:00:27.845 --> 00:00:30.356 process and have been just very  
NOTE Confidence: 0.937737685

00:00:30.356 --> 00:00:33.394 impressed with her role in the AA  
NOTE Confidence: 0.937737685

00:00:33.394 --> 00:00:34.946 MC Telehealth Advisory Committee.  
NOTE Confidence: 0.937737685

00:00:34.950 --> 00:00:37.038 What she brings to the table in terms  
NOTE Confidence: 0.937737685

00:00:37.038 --> 00:00:39.543 of her understanding about teaching and  
NOTE Confidence: 0.937737685

00:00:39.543 --> 00:00:41.948 learning in this telehealth environment.  
NOTE Confidence: 0.937737685

00:00:41.950 --> 00:00:44.670 She is her clinical practices in  
NOTE Confidence: 0.937737685

00:00:44.670 --> 00:00:46.896 GI and she's actually done a lot  
NOTE Confidence: 0.937737685

00:00:46.896 --> 00:00:49.084 of work in virtual care access  
NOTE Confidence: 0.937737685

00:00:49.084 --> 00:00:51.779 and quality as it relates to GI.  
NOTE Confidence: 0.937737685

00:00:51.780 --> 00:00:54.908 And and so I'm very excited to have  
NOTE Confidence: 0.937737685

00:00:54.908 --> 00:00:56.900 her share with us her thoughts  
NOTE Confidence: 0.937737685

00:00:56.900 --> 00:00:58.260 as she moderates this session.  
NOTE Confidence: 0.937737685

00:00:58.260 --> 00:00:58.698 So I'll turn  
NOTE Confidence: 0.92817752

00:00:58.700 --> 00:00:59.580 it over now to her.

NOTE Confidence: 0.944027375

00:01:01.660 --> 00:01:03.265 Thank you, Lee.

NOTE Confidence: 0.944027375

00:01:03.265 --> 00:01:05.940 I appreciate the opportunity to

NOTE Confidence: 0.944027375

00:01:05.940 --> 00:01:08.928 lead this panel discussion on best

NOTE Confidence: 0.944027375

00:01:08.928 --> 00:01:11.820 practices for virtual care education.

NOTE Confidence: 0.944027375

00:01:11.820 --> 00:01:13.536 As we had spoken about before,

NOTE Confidence: 0.944027375

00:01:13.540 --> 00:01:16.135 we wanted to slowly progress

NOTE Confidence: 0.944027375

00:01:16.135 --> 00:01:18.730 into getting into the granulars

NOTE Confidence: 0.944027375

00:01:18.822 --> 00:01:21.912 of exactly how you would impart.

NOTE Confidence: 0.944027375

00:01:21.912 --> 00:01:25.776 Knowledge on to learners and so

NOTE Confidence: 0.944027375

00:01:25.776 --> 00:01:27.766 our objectives were to discuss

NOTE Confidence: 0.944027375

00:01:27.766 --> 00:01:30.791 some of the methods for educating

NOTE Confidence: 0.944027375

00:01:30.791 --> 00:01:32.877 and embracing website banner.

NOTE Confidence: 0.944027375

00:01:32.877 --> 00:01:35.236 And so we're going to use some

NOTE Confidence: 0.944027375

00:01:35.236 --> 00:01:37.133 simulations to exhibit this review

NOTE Confidence: 0.944027375

00:01:37.133 --> 00:01:39.098 approaches to structure the virtual

NOTE Confidence: 0.944027375

00:01:39.098 --> 00:01:41.460 delivery model and the environment.  
NOTE Confidence: 0.944027375

00:01:41.460 --> 00:01:42.294 For learning,  
NOTE Confidence: 0.944027375

00:01:42.294 --> 00:01:44.379 because there could be several  
NOTE Confidence: 0.944027375

00:01:44.379 --> 00:01:46.112 different approaches that could  
NOTE Confidence: 0.944027375

00:01:46.112 --> 00:01:47.896 fit within a practice,  
NOTE Confidence: 0.944027375

00:01:47.900 --> 00:01:50.450 share best practices on team structure  
NOTE Confidence: 0.944027375

00:01:50.450 --> 00:01:52.150 and integration while embedding  
NOTE Confidence: 0.944027375

00:01:52.215 --> 00:01:54.220 the learner through role clarity,  
NOTE Confidence: 0.944027375

00:01:54.220 --> 00:01:57.340 optimization of the role on the  
NOTE Confidence: 0.944027375

00:01:57.340 --> 00:01:59.700 team and incorporating this into  
NOTE Confidence: 0.944027375

00:01:59.700 --> 00:02:02.340 telehealth as we care for patients  
NOTE Confidence: 0.944027375

00:02:02.340 --> 00:02:04.716 and incorporate their caregivers.  
NOTE Confidence: 0.944027375

00:02:04.716 --> 00:02:08.426 And then also consider approaches to  
NOTE Confidence: 0.944027375

00:02:08.426 --> 00:02:11.636 incorporating peripheral advices to enhance.  
NOTE Confidence: 0.944027375

00:02:11.640 --> 00:02:14.360 The visit and the encounter.  
NOTE Confidence: 0.944027375

00:02:14.360 --> 00:02:19.275 So as many organizations have come

NOTE Confidence: 0.944027375

00:02:19.275 --> 00:02:21.799 to rapidly integrate telehealth

NOTE Confidence: 0.952553311111111

00:02:23.880 --> 00:02:25.852 since the public health

NOTE Confidence: 0.952553311111111

00:02:25.852 --> 00:02:28.317 emergency was declared in March,

NOTE Confidence: 0.952553311111111

00:02:28.320 --> 00:02:31.312 what we are seeing is that there are

NOTE Confidence: 0.952553311111111

00:02:31.312 --> 00:02:34.390 gaps in the knowledge that we have as

NOTE Confidence: 0.952553311111111

00:02:34.390 --> 00:02:36.380 physicians because we weren't trained

NOTE Confidence: 0.952553311111111

00:02:36.448 --> 00:02:38.624 many of us in telemedicine and so

NOTE Confidence: 0.952553311111111

00:02:38.624 --> 00:02:40.940 we're having to rapidly educate our.

NOTE Confidence: 0.952553311111111

00:02:40.940 --> 00:02:44.720 Self educate our providers on best practices

NOTE Confidence: 0.952553311111111

00:02:44.720 --> 00:02:48.316 not only for interacting with the patients,

NOTE Confidence: 0.952553311111111

00:02:48.316 --> 00:02:50.292 but for incorporating learners

NOTE Confidence: 0.952553311111111

00:02:50.292 --> 00:02:52.180 into their environment.

NOTE Confidence: 0.952553311111111

00:02:52.180 --> 00:02:54.418 So next slide.

NOTE Confidence: 0.952553311111111

00:02:54.420 --> 00:02:58.422 So with that I'd like to

NOTE Confidence: 0.952553311111111

00:02:58.422 --> 00:03:00.423 introduce our panelists.

NOTE Confidence: 0.952553311111111

00:03:00.430 --> 00:03:02.884 Doctor Ronald Weinstein is the founding  
NOTE Confidence: 0.9525533111111111

00:03:02.884 --> 00:03:05.256 director of the National Awardwinning  
NOTE Confidence: 0.9525533111111111

00:03:05.256 --> 00:03:07.269 Arizona Telemedicine Program.  
NOTE Confidence: 0.9525533111111111

00:03:07.270 --> 00:03:10.574 He's an academic pathologist who was the  
NOTE Confidence: 0.9525533111111111

00:03:10.574 --> 00:03:13.729 department chair for over 30 years and is  
NOTE Confidence: 0.9525533111111111

00:03:13.729 --> 00:03:16.790 a pioneer in the field of telepathology.  
NOTE Confidence: 0.9525533111111111

00:03:16.790 --> 00:03:20.475 He received the American Telemedicine  
NOTE Confidence: 0.9525533111111111

00:03:20.475 --> 00:03:22.686 Association's President's Leadership  
NOTE Confidence: 0.9525533111111111

00:03:22.686 --> 00:03:25.615 Award and currently continues to work  
NOTE Confidence: 0.9525533111111111

00:03:25.615 --> 00:03:28.840 at the University of Arizona as the  
NOTE Confidence: 0.9525533111111111

00:03:28.840 --> 00:03:31.235 director of their telemedicine program.  
NOTE Confidence: 0.9525533111111111

00:03:31.240 --> 00:03:34.110 Doctor Neil Nyak is the is an  
NOTE Confidence: 0.9525533111111111

00:03:34.110 --> 00:03:35.886 instructor of emergency medicine  
NOTE Confidence: 0.9525533111111111

00:03:35.886 --> 00:03:38.670 at Weil Cornell Medical College.  
NOTE Confidence: 0.9525533111111111

00:03:38.670 --> 00:03:44.004 He joined the group in 2015 and practices at  
NOTE Confidence: 0.9525533111111111

00:03:44.004 --> 00:03:46.720 the Medical Center and in lower Manhattan.

NOTE Confidence: 0.9525533111111111  
00:03:46.720 --> 00:03:49.000 And he is the director of the Emergency  
NOTE Confidence: 0.9525533111111111  
00:03:49.000 --> 00:03:51.180 Medicine Simulation Education and  
NOTE Confidence: 0.9525533111111111  
00:03:51.180 --> 00:03:54.450 he's going to show us basically  
NOTE Confidence: 0.9525533111111111  
00:03:54.537 --> 00:03:57.070 how he works to train the trainer  
NOTE Confidence: 0.9525533111111111  
00:03:57.070 --> 00:03:59.272 through simulation techniques.  
NOTE Confidence: 0.9525533111111111  
00:03:59.272 --> 00:04:01.960 Doctor Bart Demershock,  
NOTE Confidence: 0.9525533111111111  
00:04:01.960 --> 00:04:05.643 who may may not be able to join us  
NOTE Confidence: 0.9525533111111111  
00:04:05.643 --> 00:04:08.320 today because he is on telestroke call,  
NOTE Confidence: 0.9525533111111111  
00:04:08.320 --> 00:04:10.050 is a professor of Neurology  
NOTE Confidence: 0.9525533111111111  
00:04:10.050 --> 00:04:11.434 at the Mayo Clinic.  
NOTE Confidence: 0.9525533111111111  
00:04:11.440 --> 00:04:14.030 He's the Medical Director for the Center  
NOTE Confidence: 0.9525533111111111  
00:04:14.030 --> 00:04:16.948 of Connected Care and has had extensive  
NOTE Confidence: 0.9525533111111111  
00:04:16.948 --> 00:04:19.118 research and clinical experience in  
NOTE Confidence: 0.9525533111111111  
00:04:19.118 --> 00:04:21.984 Telestroke and Laura Christopherson.  
NOTE Confidence: 0.9525533111111111  
00:04:21.984 --> 00:04:24.408 Works alongside Dr.  
NOTE Confidence: 0.9525533111111111

00:04:24.410 --> 00:04:25.142 Demir Shaw,  
NOTE Confidence: 0.9525533111111111

00:04:25.142 --> 00:04:27.338 where she serves as the Operations  
NOTE Confidence: 0.9525533111111111

00:04:27.338 --> 00:04:29.968 Manager for the Center of Connected Care.  
NOTE Confidence: 0.9525533111111111

00:04:29.970 --> 00:04:31.650 Kelly Wittebolt is an emergency  
NOTE Confidence: 0.9525533111111111

00:04:31.650 --> 00:04:33.330 medicine physician at Mass General,  
NOTE Confidence: 0.9525533111111111

00:04:33.330 --> 00:04:35.784 where she is public published extensively  
NOTE Confidence: 0.9525533111111111

00:04:35.784 --> 00:04:38.920 on the use of peripheral devices.  
NOTE Confidence: 0.9525533111111111

00:04:38.920 --> 00:04:40.756 She and Doctor Weinstein will help  
NOTE Confidence: 0.9525533111111111

00:04:40.756 --> 00:04:43.003 us to develop a better understanding  
NOTE Confidence: 0.9525533111111111

00:04:43.003 --> 00:04:44.915 of how telemedicine peripheral  
NOTE Confidence: 0.9525533111111111

00:04:44.915 --> 00:04:47.429 devices or medical devices can be  
NOTE Confidence: 0.9525533111111111

00:04:47.429 --> 00:04:49.209 used to augment the patient care.  
NOTE Confidence: 0.9525533111111111

00:04:49.209 --> 00:04:52.402 And so we will lead off with Neil who  
NOTE Confidence: 0.9525533111111111

00:04:52.402 --> 00:04:54.557 will share some simulation videos.  
NOTE Confidence: 0.61936617

00:05:03.070 --> 00:05:03.310 Great.  
NOTE Confidence: 0.950317

00:05:06.740 --> 00:05:08.896 So thank you for that wonderful introduction.

NOTE Confidence: 0.950317

00:05:08.900 --> 00:05:10.820 Thank you for having me here.

NOTE Confidence: 0.950317

00:05:10.820 --> 00:05:13.164 So I want to start a little bit before

NOTE Confidence: 0.950317

00:05:13.164 --> 00:05:14.956 we get into how we actually train it

NOTE Confidence: 0.950317

00:05:14.956 --> 00:05:16.739 about how our program actually started.

NOTE Confidence: 0.950317

00:05:16.740 --> 00:05:20.305 And it was simply with trying to get medical

NOTE Confidence: 0.950317

00:05:20.305 --> 00:05:23.935 students and experience in in telemedicine.

NOTE Confidence: 0.950317

00:05:23.940 --> 00:05:26.268 And so we started it as I'm a

NOTE Confidence: 0.950317

00:05:26.268 --> 00:05:27.999 simulationist with giving them an

NOTE Confidence: 0.950317

00:05:27.999 --> 00:05:29.814 experience by doing a simulation.

NOTE Confidence: 0.950317

00:05:29.820 --> 00:05:32.256 And so we had them see a

NOTE Confidence: 0.950317

00:05:32.256 --> 00:05:33.790 standardized patient over video.

NOTE Confidence: 0.950317

00:05:33.790 --> 00:05:36.275 From a controlled setting and what ended

NOTE Confidence: 0.950317

00:05:36.275 --> 00:05:39.345 up coming up in the debrief was less about

NOTE Confidence: 0.950317

00:05:39.350 --> 00:05:42.510 the how to turn on the camera and how to,

NOTE Confidence: 0.950317

00:05:42.510 --> 00:05:46.110 how to, how to navigate the system,

NOTE Confidence: 0.950317

00:05:46.110 --> 00:05:48.868 but much more about the interaction itself.

NOTE Confidence: 0.950317

00:05:48.870 --> 00:05:50.735 And what we realized is

NOTE Confidence: 0.950317

00:05:50.735 --> 00:05:52.227 that the website manner,

NOTE Confidence: 0.950317

00:05:52.230 --> 00:05:54.080 the the clinical corollary of

NOTE Confidence: 0.950317

00:05:54.080 --> 00:05:55.930 telemedicine to bedside manner was

NOTE Confidence: 0.950317

00:05:55.995 --> 00:05:57.789 what they wanted to talk about.

NOTE Confidence: 0.950317

00:05:57.790 --> 00:05:59.926 And so as our program kind

NOTE Confidence: 0.950317

00:05:59.926 --> 00:06:01.350 of expanded and developed.

NOTE Confidence: 0.950317

00:06:01.350 --> 00:06:02.952 We realized that this was the

NOTE Confidence: 0.950317

00:06:02.952 --> 00:06:05.028 crux of what we wanted to teach.

NOTE Confidence: 0.950317

00:06:05.030 --> 00:06:06.788 And what we also realized is,

NOTE Confidence: 0.950317

00:06:06.790 --> 00:06:08.110 as Doctor James Stevenson said,

NOTE Confidence: 0.950317

00:06:08.110 --> 00:06:10.468 a lot of us have been thrown into this

NOTE Confidence: 0.950317

00:06:10.468 --> 00:06:13.082 without any previous training in this at all.

NOTE Confidence: 0.950317

00:06:13.082 --> 00:06:16.376 And so a lot of us were novices when it

NOTE Confidence: 0.950317

00:06:16.376 --> 00:06:20.110 came to website manner or at least beginners.

NOTE Confidence: 0.950317

00:06:20.110 --> 00:06:21.220 And so we were all starting

NOTE Confidence: 0.950317

00:06:21.220 --> 00:06:22.470 kind of from the same space,

NOTE Confidence: 0.950317

00:06:22.470 --> 00:06:24.726 the page whether we were already

NOTE Confidence: 0.950317

00:06:24.726 --> 00:06:26.230 practicing clinicians that had,

NOTE Confidence: 0.950317

00:06:26.230 --> 00:06:26.710 you know,

NOTE Confidence: 0.950317

00:06:26.710 --> 00:06:28.366 20 years of experience or if we

NOTE Confidence: 0.950317

00:06:28.366 --> 00:06:31.258 were the first year medical student.

NOTE Confidence: 0.950317

00:06:31.260 --> 00:06:34.524 And So what we did is we developed

NOTE Confidence: 0.950317

00:06:34.524 --> 00:06:37.570 this program for all comers who were

NOTE Confidence: 0.950317

00:06:37.570 --> 00:06:39.800 interested in telemedicine to really

NOTE Confidence: 0.950317

00:06:39.876 --> 00:06:41.980 understand the aspect of website manner

NOTE Confidence: 0.950317

00:06:41.980 --> 00:06:44.283 and how to apply to their processes

NOTE Confidence: 0.950317

00:06:44.283 --> 00:06:46.427 and their telemedicine practice and

NOTE Confidence: 0.950317

00:06:46.427 --> 00:06:48.629 so the program that we developed.

NOTE Confidence: 0.950317

00:06:48.630 --> 00:06:50.870 Starts with a flip classroom model.

NOTE Confidence: 0.950317

00:06:50.870 --> 00:06:52.286 And so this flip classroom model  
NOTE Confidence: 0.950317

00:06:52.286 --> 00:06:54.042 is a module that goes over some  
NOTE Confidence: 0.950317

00:06:54.042 --> 00:06:55.307 of the basics and lighting,  
NOTE Confidence: 0.950317

00:06:55.310 --> 00:06:58.152 camera angles and some of the medical  
NOTE Confidence: 0.950317

00:06:58.152 --> 00:07:00.430 legal aspects of telemedicine.  
NOTE Confidence: 0.950317

00:07:00.430 --> 00:07:02.152 What is the Ryan Haid act and  
NOTE Confidence: 0.950317

00:07:02.152 --> 00:07:03.829 where do you need licensure?  
NOTE Confidence: 0.950317

00:07:03.830 --> 00:07:05.486 And this is basically to get  
NOTE Confidence: 0.950317

00:07:05.486 --> 00:07:07.222 everyone kind of on the same page.  
NOTE Confidence: 0.950317

00:07:07.230 --> 00:07:08.574 A lot of our learners are coming  
NOTE Confidence: 0.950317

00:07:08.574 --> 00:07:10.230 in with different experiences  
NOTE Confidence: 0.950317

00:07:10.230 --> 00:07:11.674 and especially post COVID,  
NOTE Confidence: 0.950317

00:07:11.674 --> 00:07:13.840 A lot of these experiences were  
NOTE Confidence: 0.950317

00:07:13.903 --> 00:07:16.015 just on the fly from home on zoom.  
NOTE Confidence: 0.950317

00:07:16.020 --> 00:07:17.620 And so we had to kind of you  
NOTE Confidence: 0.950317

00:07:17.620 --> 00:07:18.380 know before COVID,

NOTE Confidence: 0.950317

00:07:18.380 --> 00:07:19.845 we had to convince people

NOTE Confidence: 0.950317

00:07:19.845 --> 00:07:21.017 why this was important.

NOTE Confidence: 0.950317

00:07:21.020 --> 00:07:22.525 Now it's we have to backtrack a

NOTE Confidence: 0.950317

00:07:22.525 --> 00:07:24.170 little bit and make sure that people

NOTE Confidence: 0.950317

00:07:24.170 --> 00:07:25.996 understand that once a lot of these

NOTE Confidence: 0.950317

00:07:25.996 --> 00:07:27.380 regulatory relaxations go away,

NOTE Confidence: 0.950317

00:07:27.380 --> 00:07:28.496 what do we need to know,

NOTE Confidence: 0.950317

00:07:28.500 --> 00:07:29.900 how do we need to do it.

NOTE Confidence: 0.950317

00:07:29.900 --> 00:07:31.910 And once they have that groundwork

NOTE Confidence: 0.950317

00:07:31.910 --> 00:07:35.598 knowledge base, we bring them in, in person.

NOTE Confidence: 0.950317

00:07:35.600 --> 00:07:36.956 Previously it was in a classroom,

NOTE Confidence: 0.950317

00:07:36.960 --> 00:07:39.528 but now it's all virtual to do

NOTE Confidence: 0.950317

00:07:39.528 --> 00:07:40.560 some experiential learning.

NOTE Confidence: 0.950317

00:07:40.560 --> 00:07:42.948 And so we actually have them

NOTE Confidence: 0.950317

00:07:42.948 --> 00:07:44.540 participate in simulations and

NOTE Confidence: 0.950317

00:07:44.610 --> 00:07:46.706 do our long debriefs using the  
NOTE Confidence: 0.950317

00:07:46.706 --> 00:07:48.198 video from their simulations.  
NOTE Confidence: 0.950317

00:07:48.200 --> 00:07:48.888 And so,  
NOTE Confidence: 0.950317

00:07:48.888 --> 00:07:51.640 as was kind of stated in the last  
NOTE Confidence: 0.9452853

00:07:51.640 --> 00:07:55.610 last panel, people being able to watch  
NOTE Confidence: 0.9452853

00:07:55.610 --> 00:07:58.955 yourself on camera taking care of a patient  
NOTE Confidence: 0.9452853

00:07:58.960 --> 00:08:02.112 is awful and awesome at the same time,  
NOTE Confidence: 0.9452853

00:08:02.112 --> 00:08:04.530 but it's an awesome way to learn.  
NOTE Confidence: 0.9452853

00:08:04.530 --> 00:08:06.546 And we have to get used to seeing ourselves  
NOTE Confidence: 0.9452853

00:08:06.546 --> 00:08:08.556 on camera because that's the only way  
NOTE Confidence: 0.9452853

00:08:08.556 --> 00:08:10.249 we get comfortable being on camera.  
NOTE Confidence: 0.9452853

00:08:10.250 --> 00:08:12.805 And so we use these videos to  
NOTE Confidence: 0.9452853

00:08:12.810 --> 00:08:15.138 engage in a discussion with our  
NOTE Confidence: 0.9452853

00:08:15.138 --> 00:08:16.442 participants asking them about how  
NOTE Confidence: 0.9452853

00:08:16.442 --> 00:08:17.810 what they think about their lighting,  
NOTE Confidence: 0.9452853

00:08:17.810 --> 00:08:19.010 what they think about their framing,

NOTE Confidence: 0.9452853

00:08:19.010 --> 00:08:20.660 what they think about their

NOTE Confidence: 0.9452853

00:08:20.660 --> 00:08:22.758 website manner as it pertains to

NOTE Confidence: 0.9452853

00:08:22.758 --> 00:08:24.688 presenting themselves to the patient.

NOTE Confidence: 0.9452853

00:08:24.690 --> 00:08:27.049 And we talk about why that's important

NOTE Confidence: 0.9452853

00:08:27.050 --> 00:08:29.354 not only from a standpoint of you know

NOTE Confidence: 0.9452853

00:08:29.354 --> 00:08:31.410 in New York where a one party recording

NOTE Confidence: 0.9452853

00:08:31.410 --> 00:08:32.970 states your patient can record you at any

NOTE Confidence: 0.9452853

00:08:32.970 --> 00:08:34.527 point in time and post it on Facebook.

NOTE Confidence: 0.9452853

00:08:34.530 --> 00:08:34.758 Book.

NOTE Confidence: 0.9452853

00:08:34.758 --> 00:08:36.354 And so you want to put your

NOTE Confidence: 0.9452853

00:08:36.354 --> 00:08:37.290 best face forward,

NOTE Confidence: 0.9452853

00:08:37.290 --> 00:08:40.554 but also from a aspect of

NOTE Confidence: 0.9452853

00:08:40.554 --> 00:08:42.730 engaging with the patient.

NOTE Confidence: 0.9452853

00:08:42.730 --> 00:08:44.448 If we don't engage with our patient,

NOTE Confidence: 0.9452853

00:08:44.450 --> 00:08:46.137 if we don't reach through the screen

NOTE Confidence: 0.9452853

00:08:46.137 --> 00:08:47.650 and really make that connection,  
NOTE Confidence: 0.9452853

00:08:47.650 --> 00:08:49.561 we're never going to be able to  
NOTE Confidence: 0.9452853

00:08:49.561 --> 00:08:51.246 show that empathy that was that  
NOTE Confidence: 0.9452853

00:08:51.246 --> 00:08:53.216 is also so important and so,  
NOTE Confidence: 0.9452853

00:08:53.216 --> 00:08:55.874 so really understanding how lighting affects.  
NOTE Confidence: 0.9452853

00:08:55.880 --> 00:08:57.320 That and how camera angles  
NOTE Confidence: 0.9452853

00:08:57.320 --> 00:08:58.760 affect that aspect of it,  
NOTE Confidence: 0.9452853

00:08:58.760 --> 00:09:00.220 How having a background that's  
NOTE Confidence: 0.9452853

00:09:00.220 --> 00:09:01.680 not distracting allows you to  
NOTE Confidence: 0.9452853

00:09:01.728 --> 00:09:03.261 take care of your patient and not  
NOTE Confidence: 0.9452853

00:09:03.261 --> 00:09:05.047 be not have your and have your  
NOTE Confidence: 0.9452853

00:09:05.047 --> 00:09:06.397 patient actually listen to you.  
NOTE Confidence: 0.9452853

00:09:06.400 --> 00:09:06.788 You know,  
NOTE Confidence: 0.9452853

00:09:06.788 --> 00:09:08.340 you can only imagine what it might be  
NOTE Confidence: 0.9452853

00:09:08.390 --> 00:09:09.704 like counseling a patient on diabetes  
NOTE Confidence: 0.9452853

00:09:09.704 --> 00:09:11.657 when you have a giant jar of cookies

NOTE Confidence: 0.9452853

00:09:11.657 --> 00:09:12.942 in your background because you're

NOTE Confidence: 0.9452853

00:09:12.942 --> 00:09:14.760 sitting on your kitchen table at home,

NOTE Confidence: 0.9452853

00:09:14.760 --> 00:09:15.251 right.

NOTE Confidence: 0.9452853

00:09:15.251 --> 00:09:18.704 And so we dive into this through

NOTE Confidence: 0.9452853

00:09:18.704 --> 00:09:20.720 this experiential learning process.

NOTE Confidence: 0.9452853

00:09:20.720 --> 00:09:21.612 And then.

NOTE Confidence: 0.9452853

00:09:21.612 --> 00:09:24.734 For many of our our practicing providers,

NOTE Confidence: 0.9452853

00:09:24.740 --> 00:09:26.912 we do an optional refresher in

NOTE Confidence: 0.9452853

00:09:26.912 --> 00:09:28.800 their environment to help them

NOTE Confidence: 0.9452853

00:09:28.800 --> 00:09:31.084 set up their environment to be

NOTE Confidence: 0.9452853

00:09:31.084 --> 00:09:32.260 optimal for telemedicine.

NOTE Confidence: 0.9452853

00:09:32.260 --> 00:09:34.492 But with their undergraduate and our

NOTE Confidence: 0.9452853

00:09:34.492 --> 00:09:35.980 graduate medical education learners,

NOTE Confidence: 0.9452853

00:09:35.980 --> 00:09:37.716 we do the first two aspects of

NOTE Confidence: 0.9452853

00:09:37.716 --> 00:09:38.460 this next slide.

NOTE Confidence: 0.933065401428572

00:09:42.380 --> 00:09:43.857 So how do we actually do this?  
NOTE Confidence: 0.933065401428572

00:09:43.860 --> 00:09:45.000 Well, we play a video and  
NOTE Confidence: 0.933065401428572

00:09:45.000 --> 00:09:46.300 this may be a pre video.  
NOTE Confidence: 0.93522183

00:09:47.860 --> 00:09:49.260 Hi, tell me what's going on. Hey.  
NOTE Confidence: 0.9452853

00:09:51.840 --> 00:09:54.664 I'm having this eye problem on  
NOTE Confidence: 0.9452853

00:09:54.664 --> 00:09:57.120 the inner side of this bottom lid.  
NOTE Confidence: 0.9452853

00:09:57.120 --> 00:09:59.478 It's been red, a little swollen  
NOTE Confidence: 0.94226628

00:09:59.480 --> 00:10:00.800 over the last couple days  
NOTE Confidence: 0.927105123125

00:10:02.680 --> 00:10:04.381 and so we may ask the patient or we  
NOTE Confidence: 0.927105123125

00:10:04.381 --> 00:10:06.075 may ask the provider who did this.  
NOTE Confidence: 0.927105123125

00:10:06.080 --> 00:10:08.330 So if you were the if you were the patient  
NOTE Confidence: 0.927105123125

00:10:08.390 --> 00:10:10.666 and this is what you saw in camera,  
NOTE Confidence: 0.927105123125

00:10:10.666 --> 00:10:13.876 would you trust them as your medical doctor?  
NOTE Confidence: 0.927105123125

00:10:13.880 --> 00:10:15.050 And it's amazing how many  
NOTE Confidence: 0.927105123125

00:10:15.050 --> 00:10:16.480 different answers we get for that.  
NOTE Confidence: 0.927105123125

00:10:16.480 --> 00:10:19.000 Most people will kind of shy away and

NOTE Confidence: 0.927105123125

00:10:19.000 --> 00:10:21.369 never never like themselves on camera.

NOTE Confidence: 0.927105123125

00:10:21.370 --> 00:10:22.708 But if you start pointing out

NOTE Confidence: 0.927105123125

00:10:22.708 --> 00:10:24.090 some of the redeeming qualities,

NOTE Confidence: 0.927105123125

00:10:24.090 --> 00:10:25.692 you can also start pointing out

NOTE Confidence: 0.927105123125

00:10:25.692 --> 00:10:27.369 some of the other aspects of

NOTE Confidence: 0.927105123125

00:10:27.369 --> 00:10:29.007 it which they can improve on.

NOTE Confidence: 0.927105123125

00:10:29.010 --> 00:10:31.218 And so using either some sort

NOTE Confidence: 0.927105123125

00:10:31.218 --> 00:10:32.322 of debriefing technique,

NOTE Confidence: 0.927105123125

00:10:32.330 --> 00:10:33.620 you can really start keying

NOTE Confidence: 0.927105123125

00:10:33.620 --> 00:10:35.410 in on some of these aspects,

NOTE Confidence: 0.927105123125

00:10:35.410 --> 00:10:37.200 such as your framing isn't optimal,

NOTE Confidence: 0.927105123125

00:10:37.200 --> 00:10:38.650 so you're not the center of the screen.

NOTE Confidence: 0.927105123125

00:10:38.650 --> 00:10:39.850 If you want your patient

NOTE Confidence: 0.927105123125

00:10:39.850 --> 00:10:41.050 to really listen to you,

NOTE Confidence: 0.927105123125

00:10:41.050 --> 00:10:42.527 you have to be front and center,

NOTE Confidence: 0.927105123125

00:10:42.530 --> 00:10:44.546 so get yourself in the middle of the screen.

NOTE Confidence: 0.927105123125

00:10:44.550 --> 00:10:45.615 Your lighting, right,

NOTE Confidence: 0.927105123125

00:10:45.615 --> 00:10:47.745 causes this glare into the camera.

NOTE Confidence: 0.927105123125

00:10:47.750 --> 00:10:49.700 So optimizing your lighting so

NOTE Confidence: 0.927105123125

00:10:49.700 --> 00:10:52.595 that it's more uniform and not so

NOTE Confidence: 0.927105123125

00:10:52.595 --> 00:10:54.470 spotlighting can really help with that.

NOTE Confidence: 0.927105123125

00:10:54.470 --> 00:10:55.958 And having someone in your background

NOTE Confidence: 0.927105123125

00:10:55.958 --> 00:10:57.824 may or may not be a HIPAA violation

NOTE Confidence: 0.927105123125

00:10:57.824 --> 00:10:59.395 based on who it is and whether

NOTE Confidence: 0.927105123125

00:10:59.395 --> 00:11:00.830 your patient's okay with it.

NOTE Confidence: 0.927105123125

00:11:00.830 --> 00:11:02.516 And so discussing that with your

NOTE Confidence: 0.927105123125

00:11:02.516 --> 00:11:04.263 patient or whether you're using a

NOTE Confidence: 0.927105123125

00:11:04.263 --> 00:11:05.693 medical scribe is really important

NOTE Confidence: 0.927105123125

00:11:05.693 --> 00:11:07.230 for that medical legal aspect.

NOTE Confidence: 0.927105123125

00:11:07.230 --> 00:11:09.510 And so after our session,

NOTE Confidence: 0.927105123125

00:11:09.510 --> 00:11:11.428 they may have a situation like this.

NOTE Confidence: 0.927105123125

00:11:11.430 --> 00:11:11.870 Next slide.

NOTE Confidence: 0.93723458

00:11:13.930 --> 00:11:14.954 Hello, I'm Dr. Greenwald.

NOTE Confidence: 0.93723458

00:11:14.954 --> 00:11:16.890 Can you see and hear me OK?

NOTE Confidence: 0.93723458

00:11:16.890 --> 00:11:18.410 You can, yes. OK.

NOTE Confidence: 0.93723458

00:11:18.410 --> 00:11:19.850 Before we get started,

NOTE Confidence: 0.93723458

00:11:19.850 --> 00:11:21.065 a little housekeeping.

NOTE Confidence: 0.93723458

00:11:21.065 --> 00:11:22.685 Just confirm your name

NOTE Confidence: 0.93723458

00:11:22.690 --> 00:11:24.350 and date of birth for me.

NOTE Confidence: 0.93723458

00:11:24.350 --> 00:11:25.450 Joanna Flores,

NOTE Confidence: 0.9402536

00:11:27.050 --> 00:11:28.850 12/23/1995. OK. And what location

NOTE Confidence: 0.94427896

00:11:28.850 --> 00:11:32.328 are you calling from today? 50 W St.

NOTE Confidence: 0.94427896

00:11:32.330 --> 00:11:36.690 New York, NY 10006. OK, Terrific.

NOTE Confidence: 0.9553487

00:11:36.690 --> 00:11:37.770 Thanks for confirming that.

NOTE Confidence: 0.940972414285714

00:11:39.580 --> 00:11:42.740 And so as we do this iterative process

NOTE Confidence: 0.940972414285714

00:11:42.740 --> 00:11:45.058 of reflecting on your own videos,

NOTE Confidence: 0.940972414285714

00:11:45.060 --> 00:11:47.380 we see a lot of the students evolve in their,  
NOTE Confidence: 0.940972414285714

00:11:47.380 --> 00:11:50.196 the way that they approach their encounters.  
NOTE Confidence: 0.940972414285714

00:11:50.196 --> 00:11:51.780 They start asking,  
NOTE Confidence: 0.940972414285714

00:11:51.780 --> 00:11:52.920 they start leading their encounters  
NOTE Confidence: 0.940972414285714

00:11:52.920 --> 00:11:54.060 with some of these questions,  
NOTE Confidence: 0.940972414285714

00:11:54.060 --> 00:11:55.340 these kind of housekeeping  
NOTE Confidence: 0.940972414285714

00:11:55.340 --> 00:11:56.620 questions that are so,  
NOTE Confidence: 0.940972414285714

00:11:56.620 --> 00:11:59.084 so important to the documentation and the  
NOTE Confidence: 0.940972414285714

00:11:59.084 --> 00:12:00.832 medical legal aspects confirming that  
NOTE Confidence: 0.940972414285714

00:12:00.832 --> 00:12:03.376 they have a license where the patient is,  
NOTE Confidence: 0.940972414285714

00:12:03.380 --> 00:12:05.486 but just like bedside manner is  
NOTE Confidence: 0.940972414285714

00:12:05.486 --> 00:12:07.344 not just that initial presentation  
NOTE Confidence: 0.940972414285714

00:12:07.344 --> 00:12:09.618 and how you look on camera.  
NOTE Confidence: 0.940972414285714

00:12:09.620 --> 00:12:11.882 How you look in person, website manners,  
NOTE Confidence: 0.940972414285714

00:12:11.882 --> 00:12:13.779 not just how you look on camera.  
NOTE Confidence: 0.940972414285714

00:12:13.780 --> 00:12:16.300 And that initial presentation to your person,

NOTE Confidence: 0.940972414285714  
00:12:16.300 --> 00:12:17.970 It's about understanding the entire  
NOTE Confidence: 0.940972414285714  
00:12:17.970 --> 00:12:20.300 patient encounter and that art of medicine.  
NOTE Confidence: 0.940972414285714  
00:12:20.300 --> 00:12:21.980 And as we heard on the previous panel,  
NOTE Confidence: 0.940972414285714  
00:12:21.980 --> 00:12:23.835 empathy is a huge part of that  
NOTE Confidence: 0.940972414285714  
00:12:23.835 --> 00:12:24.980 patient interaction and understanding  
NOTE Confidence: 0.940972414285714  
00:12:24.980 --> 00:12:26.750 where the patient is coming from  
NOTE Confidence: 0.940972414285714  
00:12:26.750 --> 00:12:29.460 and how to provide care to them in  
NOTE Confidence: 0.940972414285714  
00:12:29.460 --> 00:12:31.260 the environment that they're in.  
NOTE Confidence: 0.940972414285714  
00:12:31.260 --> 00:12:31.860 And this is,  
NOTE Confidence: 0.940972414285714  
00:12:31.860 --> 00:12:33.561 I think where a lot of people get  
NOTE Confidence: 0.940972414285714  
00:12:33.561 --> 00:12:35.073 stuck with telemedicine and they try  
NOTE Confidence: 0.940972414285714  
00:12:35.073 --> 00:12:37.137 to take what they do in person and move  
NOTE Confidence: 0.940972414285714  
00:12:37.137 --> 00:12:38.685 it and block into the virtual realm.  
NOTE Confidence: 0.940972414285714  
00:12:38.685 --> 00:12:39.860 And we can't do that.  
NOTE Confidence: 0.940972414285714  
00:12:39.860 --> 00:12:41.708 We have to teach a different set of  
NOTE Confidence: 0.940972414285714

00:12:41.708 --> 00:12:43.657 skills to actually care for a patient.  
NOTE Confidence: 0.940972414285714

00:12:43.660 --> 00:12:45.256 And it's because the environment now,  
NOTE Confidence: 0.940972414285714

00:12:45.260 --> 00:12:45.874 the room,  
NOTE Confidence: 0.940972414285714

00:12:45.874 --> 00:12:47.716 the virtual care room is now  
NOTE Confidence: 0.940972414285714

00:12:47.716 --> 00:12:49.897 half the patients and half ours.  
NOTE Confidence: 0.940972414285714

00:12:49.900 --> 00:12:52.294 So we don't have as much control over it.  
NOTE Confidence: 0.940972414285714

00:12:52.300 --> 00:12:54.218 The room isn't set up for us.  
NOTE Confidence: 0.940972414285714

00:12:54.220 --> 00:12:55.420 We don't have this, you know,  
NOTE Confidence: 0.940972414285714

00:12:55.420 --> 00:12:57.254 the bed located where it is and  
NOTE Confidence: 0.940972414285714

00:12:57.254 --> 00:12:58.900 the Thalmoscope on the wall and  
NOTE Confidence: 0.940972414285714

00:12:58.900 --> 00:13:00.508 the lighting perfect in the room.  
NOTE Confidence: 0.940972414285714

00:13:00.510 --> 00:13:01.197 For an encounter.  
NOTE Confidence: 0.940972414285714

00:13:01.197 --> 00:13:03.360 And so we have to work with our patient  
NOTE Confidence: 0.940972414285714

00:13:03.360 --> 00:13:05.110 to really set that up and engage  
NOTE Confidence: 0.940972414285714

00:13:05.110 --> 00:13:06.739 them in taking care of themselves  
NOTE Confidence: 0.940972414285714

00:13:06.739 --> 00:13:08.926 or helping us take care of that.

NOTE Confidence: 0.940972414285714  
00:13:08.926 --> 00:13:12.090 We have to ask them to rearrange their  
NOTE Confidence: 0.940972414285714  
00:13:12.090 --> 00:13:13.790 furniture or rearrange their lighting,  
NOTE Confidence: 0.940972414285714  
00:13:13.790 --> 00:13:16.126 get to a better spot to make a  
NOTE Confidence: 0.940972414285714  
00:13:16.126 --> 00:13:17.830 better connection so that we can  
NOTE Confidence: 0.940972414285714  
00:13:17.830 --> 00:13:18.950 actually do an exam.  
NOTE Confidence: 0.940972414285714  
00:13:18.950 --> 00:13:20.684 We need to incorporate their hands  
NOTE Confidence: 0.940972414285714  
00:13:20.684 --> 00:13:22.920 as our hands in the exam to try  
NOTE Confidence: 0.940972414285714  
00:13:22.920 --> 00:13:24.794 to make sure we can reliably get  
NOTE Confidence: 0.940972414285714  
00:13:24.794 --> 00:13:26.775 an exam and we need to incorporate  
NOTE Confidence: 0.940972414285714  
00:13:26.775 --> 00:13:28.602 their home environment and what is  
NOTE Confidence: 0.940972414285714  
00:13:28.602 --> 00:13:30.480 accessible to them in their plan  
NOTE Confidence: 0.940972414285714  
00:13:30.542 --> 00:13:32.390 to allow us to take care of them.  
NOTE Confidence: 0.940972414285714  
00:13:32.390 --> 00:13:34.203 And so in the discussion we're able  
NOTE Confidence: 0.940972414285714  
00:13:34.203 --> 00:13:36.248 to cover all these topics and really  
NOTE Confidence: 0.940972414285714  
00:13:36.248 --> 00:13:38.409 kind of expand people's minds as to  
NOTE Confidence: 0.940972414285714

00:13:38.409 --> 00:13:40.411 what it actually means to have good  
NOTE Confidence: 0.940972414285714

00:13:40.411 --> 00:13:42.216 website manner over telemedicine.  
NOTE Confidence: 0.940972414285714

00:13:42.216 --> 00:13:42.829 Thanks.  
NOTE Confidence: 0.9352219

00:13:43.830 --> 00:13:49.910 Next we will have is Laura here. I'm here.  
NOTE Confidence: 0.939135552222222

00:13:49.910 --> 00:13:51.710 I'm just waiting for my video to be enabled.  
NOTE Confidence: 0.9201269

00:13:52.750 --> 00:13:53.190 Oh, OK.  
NOTE Confidence: 0.937378448571429

00:13:55.590 --> 00:13:56.990 You can go ahead and get started, Laura.  
NOTE Confidence: 0.937378448571429

00:13:56.990 --> 00:13:58.190 It'll kick in in a minute.  
NOTE Confidence: 0.937378448571429

00:13:58.190 --> 00:14:00.426 Grab it, grab it. There we go.  
NOTE Confidence: 0.937378448571429

00:14:00.426 --> 00:14:01.974 Hey, you're in the same office  
NOTE Confidence: 0.937378448571429

00:14:01.974 --> 00:14:04.030 as the other person from Mayo. I  
NOTE Confidence: 0.93186755

00:14:04.030 --> 00:14:07.510 know. I would like to use their background.  
NOTE Confidence: 0.943608178333333

00:14:10.110 --> 00:14:12.270 Thanks for having us here today.  
NOTE Confidence: 0.943608178333333

00:14:12.270 --> 00:14:14.878 So within the Center for Connected Care,  
NOTE Confidence: 0.943608178333333

00:14:14.878 --> 00:14:17.710 we're Mayo Clinics home for telemedicine.  
NOTE Confidence: 0.943608178333333

00:14:17.710 --> 00:14:19.560 We developed an education curriculum

NOTE Confidence: 0.943608178333333  
00:14:19.560 --> 00:14:22.034 to educate our care teams and care  
NOTE Confidence: 0.943608178333333  
00:14:22.034 --> 00:14:23.586 teams and staff and accelerate  
NOTE Confidence: 0.943608178333333  
00:14:23.586 --> 00:14:25.766 our adoption and diffusion of  
NOTE Confidence: 0.943608178333333  
00:14:25.766 --> 00:14:27.510 telemedicine within our practice.  
NOTE Confidence: 0.943608178333333  
00:14:27.510 --> 00:14:28.878 So in this presentation,  
NOTE Confidence: 0.943608178333333  
00:14:28.878 --> 00:14:30.588 we're going to be offering  
NOTE Confidence: 0.943608178333333  
00:14:30.588 --> 00:14:32.635 our recommendations for best  
NOTE Confidence: 0.943608178333333  
00:14:32.635 --> 00:14:34.823 practices for structuring and  
NOTE Confidence: 0.943608178333333  
00:14:34.823 --> 00:14:36.464 delivering telehealth curriculum.  
NOTE Confidence: 0.943608178333333  
00:14:36.470 --> 00:14:39.038 That's really based on our experience  
NOTE Confidence: 0.943608178333333  
00:14:39.038 --> 00:14:42.770 and I will say lessons learned beginning  
NOTE Confidence: 0.943608178333333  
00:14:42.770 --> 00:14:46.270 with conducting a needs assessment.  
NOTE Confidence: 0.943608178333333  
00:14:46.270 --> 00:14:47.955 So to conduct the needs  
NOTE Confidence: 0.943608178333333  
00:14:47.955 --> 00:14:49.303 assessment with your learners,  
NOTE Confidence: 0.943608178333333  
00:14:49.310 --> 00:14:52.110 we recommend focusing on three key areas,  
NOTE Confidence: 0.943608178333333

00:14:52.110 --> 00:14:53.572 curriculum content,  
NOTE Confidence: 0.9436081783333333

00:14:53.572 --> 00:14:55.034 curriculum design,  
NOTE Confidence: 0.9436081783333333

00:14:55.034 --> 00:14:57.227 and curriculum implementation.  
NOTE Confidence: 0.9436081783333333

00:14:57.230 --> 00:14:58.738 For our needs assessment,  
NOTE Confidence: 0.9436081783333333

00:14:58.738 --> 00:15:00.246 we conducted interviews with  
NOTE Confidence: 0.9436081783333333

00:15:00.246 --> 00:15:02.112 providers and other care team  
NOTE Confidence: 0.9436081783333333

00:15:02.112 --> 00:15:03.508 members within our practice,  
NOTE Confidence: 0.9436081783333333

00:15:03.510 --> 00:15:06.478 and we also included some support staff  
NOTE Confidence: 0.9436081783333333

00:15:06.478 --> 00:15:08.894 so our operations administrators who  
NOTE Confidence: 0.9436081783333333

00:15:08.894 --> 00:15:12.131 support those care teams to ensure we  
NOTE Confidence: 0.9436081783333333

00:15:12.131 --> 00:15:14.333 captured the full spectrum of needs.  
NOTE Confidence: 0.9436081783333333

00:15:14.340 --> 00:15:16.120 We did include individuals who  
NOTE Confidence: 0.9436081783333333

00:15:16.120 --> 00:15:17.900 had depth of experience with  
NOTE Confidence: 0.9436081783333333

00:15:17.965 --> 00:15:20.137 telemedicine and those that did not.  
NOTE Confidence: 0.9436081783333333

00:15:20.140 --> 00:15:22.244 We also interviewed residency  
NOTE Confidence: 0.9436081783333333

00:15:22.244 --> 00:15:24.348 and fellowship program directors

NOTE Confidence: 0.943608178333333  
00:15:24.348 --> 00:15:26.664 to differentiate the needs of  
NOTE Confidence: 0.943608178333333  
00:15:26.664 --> 00:15:28.260 practicing physicians from those  
NOTE Confidence: 0.943608178333333  
00:15:28.260 --> 00:15:30.660 of trainees or student learners.  
NOTE Confidence: 0.943608178333333  
00:15:30.660 --> 00:15:33.096 So in the area of curriculum content,  
NOTE Confidence: 0.943608178333333  
00:15:33.100 --> 00:15:35.046 we wanted to learn more about what  
NOTE Confidence: 0.943608178333333  
00:15:35.046 --> 00:15:36.708 types of content were needed or  
NOTE Confidence: 0.943608178333333  
00:15:36.708 --> 00:15:38.500 wanted by the practice and as we  
NOTE Confidence: 0.943608178333333  
00:15:38.562 --> 00:15:40.197 look to develop our curricula.  
NOTE Confidence: 0.943608178333333  
00:15:40.200 --> 00:15:42.784 We wanted to know how to structure the  
NOTE Confidence: 0.943608178333333  
00:15:42.784 --> 00:15:45.412 content such as aligning by telehealth  
NOTE Confidence: 0.943608178333333  
00:15:45.412 --> 00:15:47.836 competencies versus specific solutions.  
NOTE Confidence: 0.943608178333333  
00:15:47.840 --> 00:15:50.672 So video telemedicine or video visits  
NOTE Confidence: 0.943608178333333  
00:15:50.672 --> 00:15:54.560 would be an example of a specific solution.  
NOTE Confidence: 0.943608178333333  
00:15:54.560 --> 00:15:55.226 Additionally,  
NOTE Confidence: 0.943608178333333  
00:15:55.226 --> 00:15:58.556 we recommend gauging interest in  
NOTE Confidence: 0.943608178333333

00:15:58.560 --> 00:16:01.410 structuring the content by roles.  
NOTE Confidence: 0.9436081783333333

00:16:01.410 --> 00:16:03.600 And gathering information to help you  
NOTE Confidence: 0.9436081783333333

00:16:03.600 --> 00:16:06.072 determine whether to take a broad or  
NOTE Confidence: 0.9436081783333333

00:16:06.072 --> 00:16:07.980 a more focused approach to develop  
NOTE Confidence: 0.9436081783333333

00:16:07.980 --> 00:16:10.313 education to either tailor it to the  
NOTE Confidence: 0.9436081783333333

00:16:10.313 --> 00:16:11.890 specialty practice and solutions,  
NOTE Confidence: 0.9436081783333333

00:16:11.890 --> 00:16:14.255 or whether to develop generalized  
NOTE Confidence: 0.9436081783333333

00:16:14.255 --> 00:16:17.405 education that can be broadly applied.  
NOTE Confidence: 0.9436081783333333

00:16:17.410 --> 00:16:19.038 So for curriculum design,  
NOTE Confidence: 0.9436081783333333

00:16:19.038 --> 00:16:20.666 we recommend gathering information  
NOTE Confidence: 0.9436081783333333

00:16:20.666 --> 00:16:22.587 about what types of curriculum  
NOTE Confidence: 0.9436081783333333

00:16:22.587 --> 00:16:24.687 would be useful for various topics.  
NOTE Confidence: 0.9436081783333333

00:16:24.690 --> 00:16:25.642 For example,  
NOTE Confidence: 0.9436081783333333

00:16:25.642 --> 00:16:28.022 does the practice report that  
NOTE Confidence: 0.9436081783333333

00:16:28.022 --> 00:16:28.974 asynchronous learning?  
NOTE Confidence: 0.9436081783333333

00:16:28.980 --> 00:16:32.036 Such as a video or a module would

NOTE Confidence: 0.943608178333333  
00:16:32.036 --> 00:16:33.060 be better for them?  
NOTE Confidence: 0.943608178333333  
00:16:33.060 --> 00:16:35.820 Or are they really looking for  
NOTE Confidence: 0.943608178333333  
00:16:35.820 --> 00:16:37.660 things like observed simulations,  
NOTE Confidence: 0.943608178333333  
00:16:37.660 --> 00:16:39.976 Simulations that they can participate in,  
NOTE Confidence: 0.943608178333333  
00:16:39.980 --> 00:16:42.600 or experiential learning as being  
NOTE Confidence: 0.943608178333333  
00:16:42.600 --> 00:16:45.220 most effective or more easily  
NOTE Confidence: 0.943608178333333  
00:16:45.304 --> 00:16:47.548 adopted in their practices?  
NOTE Confidence: 0.943608178333333  
00:16:47.550 --> 00:16:49.750 And then for curriculum implementation,  
NOTE Confidence: 0.943608178333333  
00:16:49.750 --> 00:16:51.988 we were interested to get practice  
NOTE Confidence: 0.943608178333333  
00:16:51.988 --> 00:16:53.480 feedback on preferences for  
NOTE Confidence: 0.943608178333333  
00:16:53.546 --> 00:16:55.622 implementation with an eye towards  
NOTE Confidence: 0.943608178333333  
00:16:55.622 --> 00:16:57.470 selecting an approach that would really  
NOTE Confidence: 0.943608178333333  
00:16:57.527 --> 00:16:59.277 drive the adoption and utilization  
NOTE Confidence: 0.943608178333333  
00:16:59.277 --> 00:17:01.027 of telemedicine in our practice.  
NOTE Confidence: 0.943608178333333  
00:17:01.030 --> 00:17:02.908 So for our needs of assessment,  
NOTE Confidence: 0.943608178333333

00:17:02.910 --> 00:17:05.175 we were specifically interested in  
NOTE Confidence: 0.9436081783333333

00:17:05.175 --> 00:17:07.030 feedback about a super user train,  
NOTE Confidence: 0.9436081783333333

00:17:07.030 --> 00:17:10.198 the trainer model and taking a  
NOTE Confidence: 0.9436081783333333

00:17:10.198 --> 00:17:12.310 required versus voluntary approach  
NOTE Confidence: 0.9436081783333333

00:17:12.397 --> 00:17:15.077 to telehealth education adoption.  
NOTE Confidence: 0.9436081783333333

00:17:15.080 --> 00:17:16.004 And then finally,  
NOTE Confidence: 0.9436081783333333

00:17:16.004 --> 00:17:18.160 we wanted to know from our practices  
NOTE Confidence: 0.9436081783333333

00:17:18.220 --> 00:17:19.890 what metrics they wanted related  
NOTE Confidence: 0.9436081783333333

00:17:19.890 --> 00:17:21.640 to their consumption of telehealth  
NOTE Confidence: 0.9436081783333333

00:17:21.640 --> 00:17:24.160 education and go to the next slide.  
NOTE Confidence: 0.9201268

00:17:29.880 --> 00:17:32.735 So in addition, we offer several  
NOTE Confidence: 0.9201268

00:17:32.735 --> 00:17:34.635 recommendations for content design,  
NOTE Confidence: 0.9201268

00:17:34.640 --> 00:17:36.380 implementation and assessment  
NOTE Confidence: 0.9201268

00:17:36.380 --> 00:17:38.120 of telehealth education.  
NOTE Confidence: 0.9201268

00:17:38.120 --> 00:17:40.560 In developing our telehealth program,  
NOTE Confidence: 0.9201268

00:17:40.560 --> 00:17:43.528 we really took an agile approach or I

NOTE Confidence: 0.9201268

00:17:43.528 --> 00:17:45.480 guess you could say where did you go

NOTE Confidence: 0.9201268

00:17:45.480 --> 00:17:47.474 approach to developing the content.

NOTE Confidence: 0.9201268

00:17:47.474 --> 00:17:50.010 And we did this so that we could

NOTE Confidence: 0.9201268

00:17:50.089 --> 00:17:52.346 quickly respond to the education

NOTE Confidence: 0.9201268

00:17:52.346 --> 00:17:54.318 needs within our practice.

NOTE Confidence: 0.9201268

00:17:54.320 --> 00:17:56.000 We did learn a lot along the way,

NOTE Confidence: 0.9201268

00:17:56.000 --> 00:17:58.749 and as such we are offering our

NOTE Confidence: 0.9201268

00:17:58.749 --> 00:18:00.494 best practices based on some

NOTE Confidence: 0.9201268

00:18:00.494 --> 00:18:02.372 of those lessons learned for

NOTE Confidence: 0.9201268

00:18:02.372 --> 00:18:04.036 curriculum content and design,

NOTE Confidence: 0.9201268

00:18:04.040 --> 00:18:05.519 implementation and assessment.

NOTE Confidence: 0.9528327425

00:18:06.440 --> 00:18:07.920 So for curriculum, content

NOTE Confidence: 0.947572329090909

00:18:07.920 --> 00:18:10.150 and design, we recommend considering

NOTE Confidence: 0.947572329090909

00:18:10.150 --> 00:18:12.760 the domain and the user role

NOTE Confidence: 0.947572329090909

00:18:12.760 --> 00:18:14.708 when developing the curriculum.

NOTE Confidence: 0.947572329090909

00:18:14.708 --> 00:18:17.516 So for example, best practices  
NOTE Confidence: 0.947572329090909

00:18:17.516 --> 00:18:20.208 for communicating with patients  
NOTE Confidence: 0.947572329090909

00:18:20.210 --> 00:18:21.794 asynchronously via secure message  
NOTE Confidence: 0.947572329090909

00:18:21.794 --> 00:18:24.170 might vary depending on which care  
NOTE Confidence: 0.947572329090909

00:18:24.229 --> 00:18:26.251 team member is communicating with the  
NOTE Confidence: 0.947572329090909

00:18:26.251 --> 00:18:29.061 patient and then how also how that care  
NOTE Confidence: 0.947572329090909

00:18:29.061 --> 00:18:30.806 team has structured their workflows  
NOTE Confidence: 0.947572329090909

00:18:30.810 --> 00:18:33.864 for who's managing secure messaging.  
NOTE Confidence: 0.947572329090909

00:18:33.864 --> 00:18:38.041 So that's just a a good example of how the  
NOTE Confidence: 0.947572329090909

00:18:38.041 --> 00:18:41.489 way that the care team is approaching the.  
NOTE Confidence: 0.947572329090909

00:18:41.490 --> 00:18:43.810 The telemedicine can can drive  
NOTE Confidence: 0.947572329090909

00:18:43.810 --> 00:18:46.130 the way you structure education.  
NOTE Confidence: 0.947572329090909

00:18:46.130 --> 00:18:47.339 Other considerations include  
NOTE Confidence: 0.947572329090909

00:18:47.339 --> 00:18:49.354 considering the format and where  
NOTE Confidence: 0.947572329090909

00:18:49.354 --> 00:18:51.487 the learner will use the education.  
NOTE Confidence: 0.947572329090909

00:18:51.490 --> 00:18:54.148 I'm considering how their needs varied

NOTE Confidence: 0.947572329090909  
00:18:54.148 --> 00:18:56.770 depending on their prior experience,  
NOTE Confidence: 0.947572329090909  
00:18:56.770 --> 00:18:58.610 whether they're very experienced  
NOTE Confidence: 0.947572329090909  
00:18:58.610 --> 00:19:00.450 or they're a novice,  
NOTE Confidence: 0.947572329090909  
00:19:00.450 --> 00:19:00.990 the context,  
NOTE Confidence: 0.947572329090909  
00:19:00.990 --> 00:19:03.150 and then how the complexity of the topic  
NOTE Confidence: 0.947572329090909  
00:19:03.209 --> 00:19:07.090 might lend itself to specific formats.  
NOTE Confidence: 0.947572329090909  
00:19:07.090 --> 00:19:10.010 So for implementation we recommend  
NOTE Confidence: 0.947572329090909  
00:19:10.010 --> 00:19:12.554 ensuring buy in from the key  
NOTE Confidence: 0.947572329090909  
00:19:12.554 --> 00:19:14.250 stakeholders and leadership groups,  
NOTE Confidence: 0.947572329090909  
00:19:14.250 --> 00:19:16.175 specifically focusing on those who have the  
NOTE Confidence: 0.947572329090909  
00:19:16.175 --> 00:19:18.328 most to gain from using that education.  
NOTE Confidence: 0.947572329090909  
00:19:18.330 --> 00:19:19.164 As a start,  
NOTE Confidence: 0.947572329090909  
00:19:19.164 --> 00:19:21.730 we've had a lot of success by working  
NOTE Confidence: 0.947572329090909  
00:19:21.730 --> 00:19:24.450 collaboratively with our early adopters.  
NOTE Confidence: 0.947572329090909  
00:19:24.450 --> 00:19:27.298 These groups are really the most excited to  
NOTE Confidence: 0.947572329090909

00:19:27.298 --> 00:19:29.050 implement telehealth and they can really Dr.  
NOTE Confidence: 0.947572329090909

00:19:29.050 --> 00:19:31.514 adoption in our practices.  
NOTE Confidence: 0.947572329090909

00:19:31.514 --> 00:19:33.978 Particularly with using education,  
NOTE Confidence: 0.947572329090909

00:19:33.980 --> 00:19:36.124 they can also be a really rich source  
NOTE Confidence: 0.947572329090909

00:19:36.124 --> 00:19:38.685 of feedback to infer to inform our  
NOTE Confidence: 0.947572329090909

00:19:38.685 --> 00:19:40.710 early versions or prototypes of  
NOTE Confidence: 0.947572329090909

00:19:40.785 --> 00:19:43.235 education that we can then refine  
NOTE Confidence: 0.947572329090909

00:19:43.235 --> 00:19:45.380 before we disseminate to a larger  
NOTE Confidence: 0.947572329090909

00:19:45.380 --> 00:19:47.620 group for the entire practice.  
NOTE Confidence: 0.947572329090909

00:19:47.620 --> 00:19:49.420 Role models can also be leveraged  
NOTE Confidence: 0.947572329090909

00:19:49.420 --> 00:19:51.072 to encourage others to implement  
NOTE Confidence: 0.947572329090909

00:19:51.072 --> 00:19:53.062 the education into their training  
NOTE Confidence: 0.947572329090909

00:19:53.062 --> 00:19:55.085 programs as well as using testimonials  
NOTE Confidence: 0.947572329090909

00:19:55.085 --> 00:19:57.930 from those role role models.  
NOTE Confidence: 0.947572329090909

00:19:57.930 --> 00:20:00.222 And then we really recommend emphasizing  
NOTE Confidence: 0.947572329090909

00:20:00.222 --> 00:20:03.329 the what's in it for me to drive

NOTE Confidence: 0.947572329090909  
00:20:03.329 --> 00:20:05.209 the adoption of the telehealth  
NOTE Confidence: 0.947572329090909  
00:20:05.209 --> 00:20:07.129 education during implementation.  
NOTE Confidence: 0.947572329090909  
00:20:07.130 --> 00:20:07.530 Finally,  
NOTE Confidence: 0.947572329090909  
00:20:07.530 --> 00:20:09.130 we recommend setting goals  
NOTE Confidence: 0.947572329090909  
00:20:09.130 --> 00:20:10.730 even if they're modest.  
NOTE Confidence: 0.947572329090909  
00:20:10.730 --> 00:20:11.930 It doesn't have to be  
NOTE Confidence: 0.951754628571429  
00:20:14.450 --> 00:20:17.305 intense analytics, just some some  
NOTE Confidence: 0.951754628571429  
00:20:17.305 --> 00:20:20.230 goals and analytics that you can use  
NOTE Confidence: 0.951754628571429  
00:20:20.230 --> 00:20:22.806 to drive and measure adoption along  
NOTE Confidence: 0.951754628571429  
00:20:22.806 --> 00:20:25.990 with gathering regular feedback.  
NOTE Confidence: 0.951754628571429  
00:20:25.990 --> 00:20:28.190 Whether that's qualitative or quantitative,  
NOTE Confidence: 0.951754628571429  
00:20:28.190 --> 00:20:31.270 but just using that feedback to improve  
NOTE Confidence: 0.951754628571429  
00:20:31.270 --> 00:20:33.390 the education program over time.  
NOTE Confidence: 0.951754628571429  
00:20:33.390 --> 00:20:35.066 So just to summarize,  
NOTE Confidence: 0.951754628571429  
00:20:35.066 --> 00:20:37.161 these best practices are really  
NOTE Confidence: 0.951754628571429

00:20:37.161 --> 00:20:39.510 based on our experience to date.  
NOTE Confidence: 0.951754628571429

00:20:39.510 --> 00:20:41.666 We are learning a lot as we  
NOTE Confidence: 0.951754628571429

00:20:41.666 --> 00:20:43.146 develop and implement telehealth  
NOTE Confidence: 0.951754628571429

00:20:43.146 --> 00:20:45.106 education into our practice,  
NOTE Confidence: 0.951754628571429

00:20:45.110 --> 00:20:46.646 so we're happy to share some  
NOTE Confidence: 0.951754628571429

00:20:46.646 --> 00:20:47.670 of those lessons learned,  
NOTE Confidence: 0.951754628571429

00:20:47.670 --> 00:20:50.088 sometimes painfully right.  
NOTE Confidence: 0.951754628571429

00:20:50.090 --> 00:20:52.290 So I look forward to hearing from you  
NOTE Confidence: 0.951754628571429

00:20:52.290 --> 00:20:54.660 all when we get to the question and  
NOTE Confidence: 0.951754628571429

00:20:54.660 --> 00:20:56.564 answer about what your best practices  
NOTE Confidence: 0.951754628571429

00:20:56.564 --> 00:20:59.665 have been and also just hearing kind of  
NOTE Confidence: 0.951754628571429

00:20:59.665 --> 00:21:02.400 where you're at in regards to telehealth,  
NOTE Confidence: 0.951754628571429

00:21:02.400 --> 00:21:03.960 education and the challenges  
NOTE Confidence: 0.951754628571429

00:21:03.960 --> 00:21:05.130 that you're facing,  
NOTE Confidence: 0.951754628571429

00:21:05.130 --> 00:21:08.889 especially post post COVID or mid COVID,  
NOTE Confidence: 0.951754628571429

00:21:08.890 --> 00:21:10.370 however you look at it.

NOTE Confidence: 0.951754628571429  
00:21:10.370 --> 00:21:10.810 Thank you.  
NOTE Confidence: 0.9241321  
00:21:14.600 --> 00:21:16.169 Okay. Hello everybody.  
NOTE Confidence: 0.9241321  
00:21:16.169 --> 00:21:18.784 Thanks for including me in  
NOTE Confidence: 0.9241321  
00:21:18.784 --> 00:21:20.760 this amazing symposium.  
NOTE Confidence: 0.9241321  
00:21:20.760 --> 00:21:22.560 I'm learning every minute  
NOTE Confidence: 0.9241321  
00:21:22.560 --> 00:21:24.360 and thoroughly enjoying it.  
NOTE Confidence: 0.9241321  
00:21:24.360 --> 00:21:26.236 Before I get on to this slide,  
NOTE Confidence: 0.9241321  
00:21:26.240 --> 00:21:28.205 I will make a few definitions. So.  
NOTE Confidence: 0.9241321  
00:21:28.205 --> 00:21:30.480 So when we think about computer science,  
NOTE Confidence: 0.9241321  
00:21:30.480 --> 00:21:32.730 the computer is central and the  
NOTE Confidence: 0.9241321  
00:21:32.730 --> 00:21:34.712 peripherals are all the devices  
NOTE Confidence: 0.9241321  
00:21:34.712 --> 00:21:36.757 that hook into the computer.  
NOTE Confidence: 0.9241321  
00:21:36.760 --> 00:21:38.280 So in the case of.  
NOTE Confidence: 0.9241321  
00:21:38.280 --> 00:21:38.625 Telemedicine,  
NOTE Confidence: 0.9241321  
00:21:38.625 --> 00:21:40.350 the peripherals are the medical  
NOTE Confidence: 0.9241321

00:21:40.350 --> 00:21:42.561 device and each one has its own  
NOTE Confidence: 0.9241321

00:21:42.561 --> 00:21:44.115 story in terms of its evolution,  
NOTE Confidence: 0.9241321

00:21:44.120 --> 00:21:45.924 its innovation, its conceptualization,  
NOTE Confidence: 0.9241321

00:21:45.924 --> 00:21:49.700 its role in medicine and enhancements  
NOTE Confidence: 0.9241321

00:21:49.700 --> 00:21:51.800 that are coming down the road.  
NOTE Confidence: 0.9241321

00:21:51.800 --> 00:21:53.910 So peripherals are are very  
NOTE Confidence: 0.9241321

00:21:53.910 --> 00:21:55.598 important to the practice,  
NOTE Confidence: 0.9241321

00:21:55.600 --> 00:21:57.316 but in addition to being important,  
NOTE Confidence: 0.9241321

00:21:57.320 --> 00:22:00.470 they're the linkage to our study of  
NOTE Confidence: 0.9241321

00:22:00.470 --> 00:22:02.876 innovation and they can provide a very,  
NOTE Confidence: 0.9241321

00:22:02.880 --> 00:22:06.079 very rich curriculum in in that area.  
NOTE Confidence: 0.9241321

00:22:06.080 --> 00:22:08.610 And I do want to address that a little bit.  
NOTE Confidence: 0.9241321

00:22:08.610 --> 00:22:10.968 In this talk,  
NOTE Confidence: 0.9241321

00:22:10.970 --> 00:22:13.295 my own personal involvement in  
NOTE Confidence: 0.9241321

00:22:13.295 --> 00:22:15.850 telemedicine dates back 50 years to  
NOTE Confidence: 0.9241321

00:22:15.850 --> 00:22:18.783 1967 and back then I was employed

NOTE Confidence: 0.9241321

00:22:18.783 --> 00:22:22.402 in a dual track as a pathology

NOTE Confidence: 0.9241321

00:22:22.402 --> 00:22:25.244 resident as well as an NIH funded

NOTE Confidence: 0.9241321

00:22:25.244 --> 00:22:27.308 laboratory director with a special

NOTE Confidence: 0.9241321

00:22:27.308 --> 00:22:30.623 interest in medical imaging and

NOTE Confidence: 0.9241321

00:22:30.623 --> 00:22:34.578 because of my involvement in.

NOTE Confidence: 0.9241321

00:22:34.580 --> 00:22:35.220 Medical imaging.

NOTE Confidence: 0.9241321

00:22:35.220 --> 00:22:37.460 I was drawn into the preliminary testing

NOTE Confidence: 0.9241321

00:22:37.460 --> 00:22:39.540 of television microscopy equipment.

NOTE Confidence: 0.9241321

00:22:39.540 --> 00:22:41.976 We would call that telepathology Today.

NOTE Confidence: 0.9241321

00:22:41.980 --> 00:22:44.479 That could be used for sending video

NOTE Confidence: 0.9241321

00:22:44.479 --> 00:22:46.973 images of blood smears from the

NOTE Confidence: 0.9241321

00:22:46.973 --> 00:22:49.572 Logan International Airport to to

NOTE Confidence: 0.9241321

00:22:49.572 --> 00:22:52.740 the Massachusetts General Hospital

NOTE Confidence: 0.9241321

00:22:52.740 --> 00:22:55.660 Telediagnostic Clinic 2.7 miles away

NOTE Confidence: 0.9241321

00:22:55.660 --> 00:22:58.580 for stat readouts by pathologist.

NOTE Confidence: 0.9241321

00:22:58.580 --> 00:23:00.016 And at that time,  
NOTE Confidence: 0.9241321

00:23:00.016 --> 00:23:01.452 the research question focused  
NOTE Confidence: 0.9241321

00:23:01.452 --> 00:23:03.438 on the need for color TV.  
NOTE Confidence: 0.9241321

00:23:03.440 --> 00:23:06.090 In telemedicine and interestingly it  
NOTE Confidence: 0.9241321

00:23:06.090 --> 00:23:09.453 was decided not necessary and showing  
NOTE Confidence: 0.9241321

00:23:09.453 --> 00:23:12.598 that not necessary for teledermatology.  
NOTE Confidence: 0.9241321

00:23:12.600 --> 00:23:14.720 I wonder about that,  
NOTE Confidence: 0.9241321

00:23:14.720 --> 00:23:18.920 but because of the my preclinical  
NOTE Confidence: 0.9241321

00:23:18.920 --> 00:23:22.600 and pre implementation studies,  
NOTE Confidence: 0.9241321

00:23:22.600 --> 00:23:25.197 I was given the honor of signing  
NOTE Confidence: 0.9241321

00:23:25.197 --> 00:23:27.889 out the first telemedicine case.  
NOTE Confidence: 0.9241321

00:23:27.889 --> 00:23:30.005 Telemedicine microscopy case coming  
NOTE Confidence: 0.9241321

00:23:30.005 --> 00:23:33.046 from the Logan Airport the next  
NOTE Confidence: 0.9241321

00:23:33.046 --> 00:23:35.162 year in 1968 and shortly thereafter  
NOTE Confidence: 0.9241321

00:23:35.162 --> 00:23:37.850 was informed that I had become the  
NOTE Confidence: 0.9241321

00:23:37.850 --> 00:23:40.130 first resident to actually sign out

NOTE Confidence: 0.9241321

00:23:40.130 --> 00:23:43.400 a telemedicine case and that made

NOTE Confidence: 0.9241321

00:23:43.400 --> 00:23:46.426 history have been involved really ever since.

NOTE Confidence: 0.9241321

00:23:46.430 --> 00:23:48.733 Now one of the faculty members in

NOTE Confidence: 0.9241321

00:23:48.733 --> 00:23:50.877 the program was Doctor John Knowles

NOTE Confidence: 0.9241321

00:23:50.877 --> 00:23:53.411 and he was the general director of

NOTE Confidence: 0.9241321

00:23:53.487 --> 00:23:55.839 the Massachusetts General Hospital.

NOTE Confidence: 0.9241321

00:23:55.840 --> 00:23:58.591 And he was a brilliant educator who

NOTE Confidence: 0.9241321

00:23:58.591 --> 00:24:00.831 was totally immersed in medical

NOTE Confidence: 0.9241321

00:24:00.831 --> 00:24:02.799 student and resident education.

NOTE Confidence: 0.9241321

00:24:02.800 --> 00:24:04.788 And you'll see in a moment why

NOTE Confidence: 0.9241321

00:24:04.788 --> 00:24:05.640 that was important.

NOTE Confidence: 0.9241321

00:24:05.640 --> 00:24:08.676 Just historically, he was also interested.

NOTE Confidence: 0.9241321

00:24:08.680 --> 00:24:11.590 Interesting because he became general

NOTE Confidence: 0.9241321

00:24:11.590 --> 00:24:15.279 director of the MGH at age 35,

NOTE Confidence: 0.9241321

00:24:15.280 --> 00:24:17.919 and 10 years later, at age 45,

NOTE Confidence: 0.9241321

00:24:17.920 --> 00:24:20.045 he came, became president of  
NOTE Confidence: 0.9241321

00:24:20.045 --> 00:24:21.320 the Rockefeller Foundation,  
NOTE Confidence: 0.9241321

00:24:21.320 --> 00:24:23.532 but always remained very,  
NOTE Confidence: 0.9241321

00:24:23.532 --> 00:24:25.744 very interested in telemedicine.  
NOTE Confidence: 0.9241321

00:24:25.750 --> 00:24:28.756 Now and he was also one of my mentors  
NOTE Confidence: 0.9241321

00:24:28.756 --> 00:24:31.865 and and and helped promote my career.  
NOTE Confidence: 0.9241321

00:24:31.870 --> 00:24:34.678 Now he teamed up with a a a famous  
NOTE Confidence: 0.9241321

00:24:34.678 --> 00:24:37.147 medical student a brilliant medical  
NOTE Confidence: 0.9241321

00:24:37.147 --> 00:24:39.022 student at Harvard Medical School  
NOTE Confidence: 0.9241321

00:24:39.022 --> 00:24:41.432 who was in his fourth year and  
NOTE Confidence: 0.9241321

00:24:41.432 --> 00:24:42.992 and it already published almost  
NOTE Confidence: 0.9241321

00:24:42.992 --> 00:24:45.685 I think 8 or 10 books and but so  
NOTE Confidence: 0.9241321

00:24:45.685 --> 00:24:48.030 the star of the show was the six  
NOTE Confidence: 0.9241321

00:24:48.030 --> 00:24:49.948 foot 9 inch tower of a man  
NOTE Confidence: 0.939256995714286

00:24:49.950 --> 00:24:52.678 the HMS senior student  
NOTE Confidence: 0.939256995714286

00:24:52.678 --> 00:24:54.724 named Michael Crichton.

NOTE Confidence: 0.939256995714286  
00:24:54.730 --> 00:24:56.410 And of course, Michael Crichton  
NOTE Confidence: 0.939256995714286  
00:24:56.410 --> 00:24:58.896 went on to become a famous author  
NOTE Confidence: 0.939256995714286  
00:24:58.896 --> 00:25:01.479 of Jurassic Park and about 30 other  
NOTE Confidence: 0.939256995714286  
00:25:01.479 --> 00:25:04.650 novels and the famous movie director.  
NOTE Confidence: 0.939256995714286  
00:25:04.650 --> 00:25:07.494 But they put their heads together  
NOTE Confidence: 0.939256995714286  
00:25:07.494 --> 00:25:10.210 to define with the optimal,  
NOTE Confidence: 0.939256995714286  
00:25:10.210 --> 00:25:13.696 with the optimal core aspirational  
NOTE Confidence: 0.939256995714286  
00:25:13.696 --> 00:25:16.834 core competencies would be for medical  
NOTE Confidence: 0.939256995714286  
00:25:16.834 --> 00:25:19.439 students rotating through telemedicine.  
NOTE Confidence: 0.939256995714286  
00:25:19.440 --> 00:25:20.860 And they decided one thing  
NOTE Confidence: 0.939256995714286  
00:25:20.860 --> 00:25:22.280 would be the patient encounter,  
NOTE Confidence: 0.939256995714286  
00:25:22.280 --> 00:25:24.480 which has been the major  
NOTE Confidence: 0.939256995714286  
00:25:24.480 --> 00:25:26.240 subject of today's discussion.  
NOTE Confidence: 0.939256995714286  
00:25:26.240 --> 00:25:29.176 But they also thought it was very important  
NOTE Confidence: 0.939256995714286  
00:25:29.176 --> 00:25:31.260 and cultivating and understanding of  
NOTE Confidence: 0.939256995714286

00:25:31.260 --> 00:25:33.400 the process of medical innovation.  
NOTE Confidence: 0.939256995714286

00:25:33.400 --> 00:25:37.530 And I was just delighted that in panel #3,  
NOTE Confidence: 0.939256995714286

00:25:37.530 --> 00:25:40.200 Julian Jenkins brought up innovation and  
NOTE Confidence: 0.939256995714286

00:25:40.200 --> 00:25:43.279 that was going to get up and applaud.  
NOTE Confidence: 0.939256995714286

00:25:43.280 --> 00:25:44.890 So anyhow,  
NOTE Confidence: 0.939256995714286

00:25:44.890 --> 00:25:48.110 Crichton rotated through the  
NOTE Confidence: 0.939256995714286

00:25:48.110 --> 00:25:49.720 pioneering program.  
NOTE Confidence: 0.939256995714286

00:25:49.720 --> 00:25:52.156 A couple of months before he graduated,  
NOTE Confidence: 0.939256995714286

00:25:52.160 --> 00:25:53.984 it was the same time that he was  
NOTE Confidence: 0.939256995714286

00:25:53.984 --> 00:25:55.359 finishing up Andromeda Strain,  
NOTE Confidence: 0.939256995714286

00:25:55.360 --> 00:25:57.860 so graduation he was publishing  
NOTE Confidence: 0.939256995714286

00:25:57.860 --> 00:25:59.657 those two books Now.  
NOTE Confidence: 0.939256995714286

00:25:59.657 --> 00:26:01.736 The half million dollars he made was  
NOTE Confidence: 0.939256995714286

00:26:01.736 --> 00:26:04.039 for the rights to Andromeda Strain,  
NOTE Confidence: 0.939256995714286

00:26:04.040 --> 00:26:07.513 but nevertheless his book on entitled  
NOTE Confidence: 0.939256995714286

00:26:07.513 --> 00:26:09.878 Nonfiction book entitled 5 Patients.

NOTE Confidence: 0.939256995714286  
00:26:09.880 --> 00:26:13.378 The patient examined included a very  
NOTE Confidence: 0.939256995714286  
00:26:13.378 --> 00:26:15.710 informative chapter on telemedicine  
NOTE Confidence: 0.939256995714286  
00:26:15.796 --> 00:26:18.388 and his work up on telemedicine.  
NOTE Confidence: 0.939256995714286  
00:26:18.390 --> 00:26:20.230 And his insights into how  
NOTE Confidence: 0.939256995714286  
00:26:20.230 --> 00:26:22.670 telemedicine would be leveled into  
NOTE Confidence: 0.939256995714286  
00:26:22.670 --> 00:26:25.110 the general study of innovation.  
NOTE Confidence: 0.939256995714286  
00:26:25.110 --> 00:26:28.110 So in that chapter,  
NOTE Confidence: 0.939256995714286  
00:26:28.110 --> 00:26:30.580 Crichton meticulously records his mentor's  
NOTE Confidence: 0.939256995714286  
00:26:30.580 --> 00:26:34.859 work up of an actual telemedicine case, Mrs.  
NOTE Confidence: 0.939256995714286  
00:26:34.859 --> 00:26:35.477 Sylvia Thompson.  
NOTE Confidence: 0.939256995714286  
00:26:35.477 --> 00:26:38.006 And when he was sitting over at the  
NOTE Confidence: 0.939256995714286  
00:26:38.006 --> 00:26:40.148 side of the room rapidly taking notes,  
NOTE Confidence: 0.939256995714286  
00:26:40.150 --> 00:26:41.950 anytime you would see Michael Crichton,  
NOTE Confidence: 0.939256995714286  
00:26:41.950 --> 00:26:43.715 he was always rapidly taking  
NOTE Confidence: 0.939256995714286  
00:26:43.715 --> 00:26:46.070 notes or walking down the hall.  
NOTE Confidence: 0.939256995714286

00:26:46.070 --> 00:26:47.344 At 69 inches,  
NOTE Confidence: 0.939256995714286

00:26:47.344 --> 00:26:49.546 she had just flown from Los  
NOTE Confidence: 0.939256995714286

00:26:49.546 --> 00:26:50.890 Angeles to Boston,  
NOTE Confidence: 0.939256995714286

00:26:50.890 --> 00:26:53.834 had walked to the New Logan  
NOTE Confidence: 0.939256995714286

00:26:53.834 --> 00:26:55.370 Airport Walk in Clinic,  
NOTE Confidence: 0.939256995714286

00:26:55.370 --> 00:26:56.934 had some chest pain,  
NOTE Confidence: 0.939256995714286

00:26:56.934 --> 00:26:58.498 intermittent chest pain which  
NOTE Confidence: 0.939256995714286

00:26:58.498 --> 00:27:00.609 emerged while they were flying over  
NOTE Confidence: 0.939256995714286

00:27:00.609 --> 00:27:02.595 Ohio and was worked up remotely  
NOTE Confidence: 0.939256995714286

00:27:02.595 --> 00:27:04.688 over television by a doctor over  
NOTE Confidence: 0.939256995714286

00:27:04.688 --> 00:27:06.488 on the mayor's general campus.  
NOTE Confidence: 0.939256995714286

00:27:06.490 --> 00:27:08.650 Doctor's name was Raymond Murphy.  
NOTE Confidence: 0.939256995714286

00:27:08.650 --> 00:27:11.608 She turned out to have pneumonia.  
NOTE Confidence: 0.939256995714286

00:27:11.610 --> 00:27:13.558 Crichton describes her reaction  
NOTE Confidence: 0.939256995714286

00:27:13.558 --> 00:27:15.019 to her telemedicine.  
NOTE Confidence: 0.939256995714286

00:27:15.020 --> 00:27:17.498 Experience in a highly quotable way,

NOTE Confidence: 0.939256995714286  
00:27:17.500 --> 00:27:18.108 she said.  
NOTE Confidence: 0.939256995714286  
00:27:18.108 --> 00:27:19.020 Quote, my goodness,  
NOTE Confidence: 0.939256995714286  
00:27:19.020 --> 00:27:21.248 it was just like the real thing, UN quote.  
NOTE Confidence: 0.939256995714286  
00:27:21.248 --> 00:27:23.102 And she never heard of telemedicine  
NOTE Confidence: 0.939256995714286  
00:27:23.102 --> 00:27:24.978 when she walked into the room.  
NOTE Confidence: 0.939256995714286  
00:27:24.980 --> 00:27:27.374 So this set the tone for probably  
NOTE Confidence: 0.939256995714286  
00:27:27.374 --> 00:27:29.932 80 or 85% of future patients  
NOTE Confidence: 0.939256995714286  
00:27:29.932 --> 00:27:31.336 reactions to telemedicine.  
NOTE Confidence: 0.939256995714286  
00:27:31.340 --> 00:27:32.620 Not everybody loves it,  
NOTE Confidence: 0.939256995714286  
00:27:32.620 --> 00:27:35.940 but generally it works very, very well.  
NOTE Confidence: 0.939256995714286  
00:27:35.940 --> 00:27:36.854 But Crichton,  
NOTE Confidence: 0.939256995714286  
00:27:36.854 --> 00:27:37.768 being Crichton,  
NOTE Confidence: 0.939256995714286  
00:27:37.768 --> 00:27:40.510 goes much much further and with  
NOTE Confidence: 0.939256995714286  
00:27:40.594 --> 00:27:42.469 the help of John Knowles.  
NOTE Confidence: 0.939256995714286  
00:27:42.470 --> 00:27:44.794 Set up appointments to talk to the  
NOTE Confidence: 0.939256995714286

00:27:44.794 --> 00:27:46.733 leading gurus at Harvard Medical  
NOTE Confidence: 0.939256995714286

00:27:46.733 --> 00:27:48.913 School of the Massachusetts General  
NOTE Confidence: 0.939256995714286

00:27:48.913 --> 00:27:51.532 Hospital and at MIT about the  
NOTE Confidence: 0.939256995714286

00:27:51.532 --> 00:27:54.136 futures of future of technology and  
NOTE Confidence: 0.939256995714286

00:27:54.136 --> 00:27:56.827 what were really the hot topics,  
NOTE Confidence: 0.939256995714286

00:27:56.830 --> 00:27:59.705 and the Crichton describes those  
NOTE Confidence: 0.939256995714286

00:27:59.705 --> 00:28:01.430 with remarkable foresight.  
NOTE Confidence: 0.939256995714286

00:28:01.430 --> 00:28:03.450 The technology is being pioneered  
NOTE Confidence: 0.939256995714286

00:28:03.450 --> 00:28:05.470 in Boston at that time,  
NOTE Confidence: 0.939256995714286

00:28:05.470 --> 00:28:08.278 and at that time they had what was  
NOTE Confidence: 0.939256995714286

00:28:08.278 --> 00:28:10.958 becoming a medical informatics unit,  
NOTE Confidence: 0.939256995714286

00:28:10.958 --> 00:28:13.286 a very famous one.  
NOTE Confidence: 0.939256995714286

00:28:13.290 --> 00:28:15.271 And and so he studied the things  
NOTE Confidence: 0.939256995714286

00:28:15.271 --> 00:28:16.978 that would become highly relevant  
NOTE Confidence: 0.939256995714286

00:28:16.978 --> 00:28:19.364 to medical practice And now in  
NOTE Confidence: 0.939256995714286

00:28:19.364 --> 00:28:22.150 hindsight we can see how they turned

NOTE Confidence: 0.937509139090909  
00:28:22.236 --> 00:28:23.645 out 50 years later.  
NOTE Confidence: 0.937509139090909  
00:28:23.645 --> 00:28:26.340 And what he looked at in particular  
NOTE Confidence: 0.937509139090909  
00:28:26.419 --> 00:28:29.429 were such thing as a I algorithm  
NOTE Confidence: 0.937509139090909  
00:28:29.429 --> 00:28:31.330 driven patient interview systems  
NOTE Confidence: 0.937509139090909  
00:28:31.330 --> 00:28:33.586 and he also looked at the power of  
NOTE Confidence: 0.937509139090909  
00:28:33.586 --> 00:28:35.620 networking of electronic health record  
NOTE Confidence: 0.937509139090909  
00:28:35.620 --> 00:28:38.016 systems And of course those are the  
NOTE Confidence: 0.937509139090909  
00:28:38.016 --> 00:28:40.750 things that are about to already have  
NOTE Confidence: 0.937509139090909  
00:28:40.750 --> 00:28:43.045 revolutionized the practice of medicine.  
NOTE Confidence: 0.937509139090909  
00:28:43.050 --> 00:28:45.528 So it showed that you know,  
NOTE Confidence: 0.937509139090909  
00:28:45.530 --> 00:28:47.680 everything that you would could  
NOTE Confidence: 0.937509139090909  
00:28:47.680 --> 00:28:50.210 teach about innovation today will not  
NOTE Confidence: 0.937509139090909  
00:28:50.210 --> 00:28:52.408 be outmoded in the next few years.  
NOTE Confidence: 0.937509139090909  
00:28:52.410 --> 00:28:55.650 And a lesson learned was a  
NOTE Confidence: 0.937509139090909  
00:28:55.650 --> 00:28:57.230 modern telemedicine rotation.  
NOTE Confidence: 0.937509139090909

00:28:57.230 --> 00:28:59.230 Clinical rotation does benefit  
NOTE Confidence: 0.937509139090909

00:28:59.230 --> 00:29:01.230 from instructions on processes  
NOTE Confidence: 0.937509139090909

00:29:01.230 --> 00:29:03.090 of medical innovation,  
NOTE Confidence: 0.937509139090909

00:29:03.090 --> 00:29:05.525 and telehealth devices per se  
NOTE Confidence: 0.937509139090909

00:29:05.525 --> 00:29:07.960 become the tools for teaching  
NOTE Confidence: 0.937509139090909

00:29:08.050 --> 00:29:10.858 medical students about innovation.  
NOTE Confidence: 0.937509139090909

00:29:10.860 --> 00:29:12.980 Innovation, next slide please.  
NOTE Confidence: 0.941186166666667

00:29:16.860 --> 00:29:19.541 OK. So these are some of the  
NOTE Confidence: 0.941186166666667

00:29:19.541 --> 00:29:20.690 telemedicine medical devices  
NOTE Confidence: 0.941186166666667

00:29:20.761 --> 00:29:22.976 that are 21st century physicians,  
NOTE Confidence: 0.941186166666667

00:29:22.980 --> 00:29:24.380 black bag if you will,  
NOTE Confidence: 0.941186166666667

00:29:24.380 --> 00:29:26.165 the telemedicine kit.  
NOTE Confidence: 0.941186166666667

00:29:26.165 --> 00:29:28.545 And so telemedicine devices  
NOTE Confidence: 0.941186166666667

00:29:28.545 --> 00:29:31.380 are the equivalent to so-called  
NOTE Confidence: 0.941186166666667

00:29:31.380 --> 00:29:34.240 professionals peripherals, I'm sorry,  
NOTE Confidence: 0.941186166666667

00:29:34.240 --> 00:29:37.815 as defined in computer science.

NOTE Confidence: 0.941186166666667  
00:29:37.820 --> 00:29:39.820 Finally, I would like to make a point.  
NOTE Confidence: 0.9553487  
00:29:42.820 --> 00:29:43.840 About innovation,  
NOTE Confidence: 0.9553487  
00:29:43.840 --> 00:29:46.900 that I think is critically important,  
NOTE Confidence: 0.9553487  
00:29:46.900 --> 00:29:48.970 and some of the more senior  
NOTE Confidence: 0.9553487  
00:29:48.970 --> 00:29:51.246 faculty members who have been on  
NOTE Confidence: 0.9553487  
00:29:51.246 --> 00:29:52.894 university committees over the  
NOTE Confidence: 0.9553487  
00:29:52.894 --> 00:29:55.140 years can really relate to this.  
NOTE Confidence: 0.9553487  
00:29:55.140 --> 00:29:56.992 This really involves telemedicine  
NOTE Confidence: 0.9553487  
00:29:56.992 --> 00:29:59.307 and telehealth in a major  
NOTE Confidence: 0.9553487  
00:29:59.307 --> 00:30:01.538 way and a very urgent need.  
NOTE Confidence: 0.9553487  
00:30:01.540 --> 00:30:04.324 There is an urgent need for  
NOTE Confidence: 0.9553487  
00:30:04.324 --> 00:30:07.000 medical schools to take a stake.  
NOTE Confidence: 0.9553487  
00:30:07.000 --> 00:30:09.639 Claim a stake in the area of  
NOTE Confidence: 0.9553487  
00:30:09.639 --> 00:30:11.011 healthcare innovation, Education,  
NOTE Confidence: 0.9553487  
00:30:11.011 --> 00:30:14.066 telehealth gives us the golden  
NOTE Confidence: 0.9553487

00:30:14.066 --> 00:30:17.160 opportunity to make that claim.  
NOTE Confidence: 0.9553487

00:30:17.160 --> 00:30:19.360 As several speakers have mentioned,  
NOTE Confidence: 0.9553487

00:30:19.360 --> 00:30:21.296 today, medical schools are  
NOTE Confidence: 0.9553487

00:30:21.296 --> 00:30:24.200 late in coming to the table.  
NOTE Confidence: 0.9553487

00:30:24.200 --> 00:30:26.360 Now I tell that to people and our faculty,  
NOTE Confidence: 0.9553487

00:30:26.360 --> 00:30:27.634 and they just can't get that straight.  
NOTE Confidence: 0.9553487

00:30:27.640 --> 00:30:28.999 They say, well, that just can't be the case.  
NOTE Confidence: 0.9553487

00:30:29.000 --> 00:30:30.240 We're always at the lead.  
NOTE Confidence: 0.9553487

00:30:30.240 --> 00:30:33.000 No, you're not at the University of Arizona,  
NOTE Confidence: 0.9553487

00:30:33.000 --> 00:30:33.951 our nursing school,  
NOTE Confidence: 0.9553487

00:30:33.951 --> 00:30:35.853 and our school of public health.  
NOTE Confidence: 0.9553487

00:30:35.860 --> 00:30:38.690 Have offered very popular courses  
NOTE Confidence: 0.9553487

00:30:38.690 --> 00:30:42.180 on telemedicine for over a decade  
NOTE Confidence: 0.9553487

00:30:42.180 --> 00:30:44.749 and in some cases have laid claim  
NOTE Confidence: 0.9553487

00:30:44.749 --> 00:30:47.778 to that as their area their their  
NOTE Confidence: 0.9553487

00:30:47.778 --> 00:30:51.058 their area in in education.

NOTE Confidence: 0.9553487

00:30:51.060 --> 00:30:53.976 So I think that the universities,

NOTE Confidence: 0.9553487

00:30:53.980 --> 00:30:56.200 the way that universities work once

NOTE Confidence: 0.9553487

00:30:56.200 --> 00:30:59.336 a college or a department to claim

NOTE Confidence: 0.9553487

00:30:59.336 --> 00:31:01.966 declares ownership of an education

NOTE Confidence: 0.9553487

00:31:01.966 --> 00:31:04.726 franchise it tends to be in their.

NOTE Confidence: 0.9553487

00:31:04.730 --> 00:31:07.354 Education portfolio for perpetuity

NOTE Confidence: 0.9553487

00:31:07.354 --> 00:31:11.290 and the subject matter for innovation

NOTE Confidence: 0.9553487

00:31:11.389 --> 00:31:14.485 should be part of medical schools.

NOTE Confidence: 0.9553487

00:31:14.490 --> 00:31:15.570 And I think that they will.

NOTE Confidence: 0.9553487

00:31:15.570 --> 00:31:18.330 We can leverage studies of medical

NOTE Confidence: 0.9553487

00:31:18.330 --> 00:31:21.822 devices as an example of medical

NOTE Confidence: 0.9553487

00:31:21.822 --> 00:31:24.746 device innovations that can become

NOTE Confidence: 0.9553487

00:31:24.746 --> 00:31:27.366 a centerpiece of our curriculum.

NOTE Confidence: 0.9553487

00:31:27.370 --> 00:31:28.470 Okay. Thanks.

NOTE Confidence: 0.9553487

00:31:28.470 --> 00:31:30.928 Next slide, I think there's one more slide.

NOTE Confidence: 0.888242951428571

00:31:33.840 --> 00:31:36.759 OK, this is and my final slide.  
NOTE Confidence: 0.888242951428571

00:31:36.760 --> 00:31:39.118 This is the point I would like to make.  
NOTE Confidence: 0.888242951428571

00:31:39.120 --> 00:31:42.808 You know we're now post Flexner Centennial  
NOTE Confidence: 0.888242951428571

00:31:42.808 --> 00:31:47.480 and what we're seeing is a mass migration  
NOTE Confidence: 0.888242951428571

00:31:47.577 --> 00:31:51.428 of medical science coursework for medical  
NOTE Confidence: 0.888242951428571

00:31:51.428 --> 00:31:53.998 schools and to undergraduate colleges  
NOTE Confidence: 0.888242951428571

00:31:54.000 --> 00:31:56.556 and currently the University of Arizona  
NOTE Confidence: 0.888242951428571

00:31:56.556 --> 00:31:59.859 is putting a new curriculum in place.  
NOTE Confidence: 0.888242951428571

00:31:59.860 --> 00:32:01.978 Which is called BS in Medicine,  
NOTE Confidence: 0.888242951428571

00:32:01.980 --> 00:32:04.620 not medical science, BS in Medicine.  
NOTE Confidence: 0.888242951428571

00:32:04.620 --> 00:32:05.740 And this is a collaborative  
NOTE Confidence: 0.888242951428571

00:32:05.740 --> 00:32:07.300 effort of our College of Medicine,  
NOTE Confidence: 0.888242951428571

00:32:07.300 --> 00:32:08.384 Nursing, Pharmacy,  
NOTE Confidence: 0.888242951428571

00:32:08.384 --> 00:32:12.178 Public Health and our College of Law.  
NOTE Confidence: 0.888242951428571

00:32:12.180 --> 00:32:13.792 And it takes, it's,  
NOTE Confidence: 0.888242951428571

00:32:13.792 --> 00:32:15.807 it's it's basically cloning what's

NOTE Confidence: 0.888242951428571  
00:32:15.807 --> 00:32:18.007 happened in our College of Business  
NOTE Confidence: 0.888242951428571  
00:32:18.007 --> 00:32:20.701 where our Bachelor of Science in  
NOTE Confidence: 0.888242951428571  
00:32:20.701 --> 00:32:23.184 Business is our number one freshman  
NOTE Confidence: 0.888242951428571  
00:32:23.184 --> 00:32:27.325 major and the number 2 freshman major is.  
NOTE Confidence: 0.888242951428571  
00:32:27.330 --> 00:32:30.246 Bachelor of Science and Public Health  
NOTE Confidence: 0.888242951428571  
00:32:30.250 --> 00:32:32.518 and the third one now is going to be  
NOTE Confidence: 0.888242951428571  
00:32:32.518 --> 00:32:34.170 Bachelor of Science and Medicine.  
NOTE Confidence: 0.888242951428571  
00:32:34.170 --> 00:32:36.170 And I would predict that within 10 years,  
NOTE Confidence: 0.888242951428571  
00:32:36.170 --> 00:32:38.395 all preclinical medical science will  
NOTE Confidence: 0.888242951428571  
00:32:38.395 --> 00:32:41.090 have migrated into the college level.  
NOTE Confidence: 0.888242951428571  
00:32:41.090 --> 00:32:41.930 And this is the way,  
NOTE Confidence: 0.888242951428571  
00:32:41.930 --> 00:32:43.883 one of the ways that we're going  
NOTE Confidence: 0.888242951428571  
00:32:43.883 --> 00:32:45.980 to deal with core curriculum  
NOTE Confidence: 0.888242951428571  
00:32:45.980 --> 00:32:47.768 for interprofessional education.  
NOTE Confidence: 0.888242951428571  
00:32:47.770 --> 00:32:49.290 And now there's a major,  
NOTE Confidence: 0.888242951428571

00:32:49.290 --> 00:32:52.404 major move to bring medical science  
NOTE Confidence: 0.888242951428571

00:32:52.404 --> 00:32:54.928 curriculum into K12 schools in  
NOTE Confidence: 0.888242951428571

00:32:54.928 --> 00:32:56.376 order to deal with.  
NOTE Confidence: 0.888242951428571

00:32:56.380 --> 00:32:58.820 The issue of health literacy,  
NOTE Confidence: 0.888242951428571

00:32:58.820 --> 00:33:01.977 now as this massive migration takes place,  
NOTE Confidence: 0.888242951428571

00:33:01.980 --> 00:33:03.735 that's the time when we have to be very,  
NOTE Confidence: 0.888242951428571

00:33:03.740 --> 00:33:07.428 very focused on grabbing the parts of the  
NOTE Confidence: 0.888242951428571

00:33:07.428 --> 00:33:10.620 curriculum that could be within our domain.  
NOTE Confidence: 0.888242951428571

00:33:10.620 --> 00:33:13.578 And I would argue telehealth gives  
NOTE Confidence: 0.888242951428571

00:33:13.578 --> 00:33:16.459 us tremendous leverage in that area.  
NOTE Confidence: 0.888242951428571

00:33:16.460 --> 00:33:19.226 We're currently putting together a report  
NOTE Confidence: 0.888242951428571

00:33:19.226 --> 00:33:22.660 that's showing in a sketch to the right,  
NOTE Confidence: 0.888242951428571

00:33:22.660 --> 00:33:25.710 and it's called Flexner 3.0.  
NOTE Confidence: 0.888242951428571

00:33:25.710 --> 00:33:28.675 And Threxner 3.0 describes Flexnerian  
NOTE Confidence: 0.888242951428571

00:33:28.675 --> 00:33:32.390 science moving first into graduate schools.  
NOTE Confidence: 0.888242951428571

00:33:32.390 --> 00:33:33.923 That's Flexner 2.0,

NOTE Confidence: 0.888242951428571

00:33:33.923 --> 00:33:37.324 and then into college is Flexner 3.0.

NOTE Confidence: 0.888242951428571

00:33:37.324 --> 00:33:39.328 And the name of the report

NOTE Confidence: 0.888242951428571

00:33:39.328 --> 00:33:41.184 will be Reinvention of Medical

NOTE Confidence: 0.888242951428571

00:33:41.184 --> 00:33:43.149 Education in the United States.

NOTE Confidence: 0.888242951428571

00:33:43.150 --> 00:33:45.790 And hopefully it'll become a book as well.

NOTE Confidence: 0.888242951428571

00:33:45.790 --> 00:33:48.148 And we've got 11 out of the 20 chapters

NOTE Confidence: 0.888242951428571

00:33:48.148 --> 00:33:50.186 pretty pretty close to being finished

NOTE Confidence: 0.888242951428571

00:33:50.190 --> 00:33:52.346 and and this, this, this could be.

NOTE Confidence: 0.888242951428571

00:33:52.350 --> 00:33:53.827 We think it's going to be important.

NOTE Confidence: 0.888242951428571

00:33:53.830 --> 00:33:55.690 We'll see how it turns out.

NOTE Confidence: 0.888242951428571

00:33:55.690 --> 00:33:57.010 If you want to read more about it,

NOTE Confidence: 0.888242951428571

00:33:57.010 --> 00:33:58.582 just Google Flexor 3.0.

NOTE Confidence: 0.888242951428571

00:33:58.582 --> 00:34:01.250 A whole bunch of papers come up,

NOTE Confidence: 0.888242951428571

00:34:01.250 --> 00:34:02.954 but we think it's very important

NOTE Confidence: 0.888242951428571

00:34:02.954 --> 00:34:04.808 and we think it is a trend.

NOTE Confidence: 0.888242951428571

00:34:04.810 --> 00:34:05.755 And once again,  
NOTE Confidence: 0.888242951428571

00:34:05.755 --> 00:34:08.595 I would urge people who are in the  
NOTE Confidence: 0.888242951428571

00:34:08.595 --> 00:34:11.040 telemedicine telehealth arena to realize  
NOTE Confidence: 0.888242951428571

00:34:11.040 --> 00:34:13.290 that they are actually center stage,  
NOTE Confidence: 0.888242951428571

00:34:13.290 --> 00:34:15.408 whether they know it or not.  
NOTE Confidence: 0.888242951428571

00:34:15.410 --> 00:34:17.438 And this is a real opportunity  
NOTE Confidence: 0.888242951428571

00:34:17.438 --> 00:34:19.414 for medical schools to expand  
NOTE Confidence: 0.888242951428571

00:34:19.414 --> 00:34:21.088 their educational franchise.  
NOTE Confidence: 0.888242951428571

00:34:21.090 --> 00:34:21.410 Thank you.  
NOTE Confidence: 0.913032566666667

00:34:24.900 --> 00:34:27.978 Thank you, Ron for that segue.  
NOTE Confidence: 0.913032566666667

00:34:27.980 --> 00:34:29.888 The transitions nicely into a little  
NOTE Confidence: 0.913032566666667

00:34:29.888 --> 00:34:32.164 bit of a discussion about the devices  
NOTE Confidence: 0.913032566666667

00:34:32.164 --> 00:34:34.490 that are currently on the market and  
NOTE Confidence: 0.913032566666667

00:34:34.490 --> 00:34:36.640 opportunities for integrating this type  
NOTE Confidence: 0.913032566666667

00:34:36.640 --> 00:34:39.600 of devices and mobile health and apps  
NOTE Confidence: 0.913032566666667

00:34:39.600 --> 00:34:41.940 into the virtual care delivery model.

NOTE Confidence: 0.913032566666667  
00:34:41.940 --> 00:34:42.972 Seeing that you know,  
NOTE Confidence: 0.913032566666667  
00:34:42.972 --> 00:34:44.954 we think about M health and remote  
NOTE Confidence: 0.913032566666667  
00:34:44.954 --> 00:34:47.806 patient monitoring and virtual care  
NOTE Confidence: 0.913032566666667  
00:34:47.806 --> 00:34:49.860 delivery as sort of separate entities,  
NOTE Confidence: 0.913032566666667  
00:34:49.860 --> 00:34:52.387 but really in an ideal world they  
NOTE Confidence: 0.913032566666667  
00:34:52.387 --> 00:34:54.860 would be able to be integrated.  
NOTE Confidence: 0.913032566666667  
00:34:54.860 --> 00:34:55.658 Down the line.  
NOTE Confidence: 0.913032566666667  
00:34:55.658 --> 00:34:57.922 So one of the things that is important  
NOTE Confidence: 0.913032566666667  
00:34:57.922 --> 00:35:00.618 to think about going back to panel two,  
NOTE Confidence: 0.913032566666667  
00:35:00.620 --> 00:35:03.860 is the general competencies in  
NOTE Confidence: 0.913032566666667  
00:35:03.860 --> 00:35:07.100 performing histories and physical exams.  
NOTE Confidence: 0.913032566666667  
00:35:07.100 --> 00:35:07.836 You know,  
NOTE Confidence: 0.913032566666667  
00:35:07.836 --> 00:35:10.225 can you do a history and a physical  
NOTE Confidence: 0.913032566666667  
00:35:10.225 --> 00:35:12.084 exam and build completely if you don't  
NOTE Confidence: 0.913032566666667  
00:35:12.084 --> 00:35:13.897 have basic things such as vital signs,  
NOTE Confidence: 0.913032566666667

00:35:13.900 --> 00:35:16.497 which are called that because they're vital.

NOTE Confidence: 0.913032566666667

00:35:16.500 --> 00:35:19.580 And so there are a number of

NOTE Confidence: 0.913032566666667

00:35:19.580 --> 00:35:20.900 devices including Fitbits,

NOTE Confidence: 0.913032566666667

00:35:20.900 --> 00:35:23.352 Apple Watches, pulse oximeters.

NOTE Confidence: 0.913032566666667

00:35:23.352 --> 00:35:24.578 Digital thermometers,

NOTE Confidence: 0.913032566666667

00:35:24.580 --> 00:35:26.736 which have been around for a while,

NOTE Confidence: 0.913032566666667

00:35:26.740 --> 00:35:28.564 and even digital blood pressure cuffs

NOTE Confidence: 0.913032566666667

00:35:28.564 --> 00:35:30.858 that can be used to ascertain this.

NOTE Confidence: 0.913032566666667

00:35:30.860 --> 00:35:32.560 But before I talk about

NOTE Confidence: 0.913032566666667

00:35:32.560 --> 00:35:33.580 each individual thing,

NOTE Confidence: 0.913032566666667

00:35:33.580 --> 00:35:35.624 I think one of the important things

NOTE Confidence: 0.913032566666667

00:35:35.624 --> 00:35:38.320 to talk about is what if a patient

NOTE Confidence: 0.913032566666667

00:35:38.320 --> 00:35:40.511 doesn't have these things or that

NOTE Confidence: 0.913032566666667

00:35:40.511 --> 00:35:42.633 idea of sort of the digital divide.

NOTE Confidence: 0.913032566666667

00:35:42.633 --> 00:35:44.499 If a patient can't afford it,

NOTE Confidence: 0.913032566666667

00:35:44.500 --> 00:35:46.620 or just doesn't have a CVS or a

NOTE Confidence: 0.913032566666667  
00:35:46.620 --> 00:35:48.387 Walgreens nearby to access one of  
NOTE Confidence: 0.913032566666667  
00:35:48.387 --> 00:35:50.145 those things to objectively tell you  
NOTE Confidence: 0.913032566666667  
00:35:50.206 --> 00:35:52.086 their information from their home?  
NOTE Confidence: 0.913032566666667  
00:35:52.090 --> 00:35:54.370 So one of the tools that has been  
NOTE Confidence: 0.913032566666667  
00:35:54.370 --> 00:35:56.365 talked about is called the Roth score,  
NOTE Confidence: 0.913032566666667  
00:35:56.370 --> 00:35:57.888 which is actually not a device,  
NOTE Confidence: 0.913032566666667  
00:35:57.890 --> 00:36:00.574 It's a clinical measurement and  
NOTE Confidence: 0.913032566666667  
00:36:00.574 --> 00:36:02.194 it's particularly relevant in the  
NOTE Confidence: 0.913032566666667  
00:36:02.194 --> 00:36:04.379 age of COVID where oxygenation and  
NOTE Confidence: 0.913032566666667  
00:36:04.379 --> 00:36:06.444 dyspnea is important to ascertain.  
NOTE Confidence: 0.913032566666667  
00:36:06.450 --> 00:36:09.194 So it's used to assess a patient's  
NOTE Confidence: 0.913032566666667  
00:36:09.194 --> 00:36:11.698 ability to count and it uses their  
NOTE Confidence: 0.913032566666667  
00:36:11.698 --> 00:36:13.358 counting times to risk stratify  
NOTE Confidence: 0.913032566666667  
00:36:13.358 --> 00:36:15.640 their dyspnea and the severity of it  
NOTE Confidence: 0.913032566666667  
00:36:15.640 --> 00:36:17.624 as it correlates with their level  
NOTE Confidence: 0.913032566666667

00:36:17.624 --> 00:36:20.444 of hypoxia and it has been shown to  
NOTE Confidence: 0.913032566666667

00:36:20.444 --> 00:36:22.560 correlate with their dyspnea severity.  
NOTE Confidence: 0.913032566666667

00:36:22.560 --> 00:36:24.415 And it works by having the patient  
NOTE Confidence: 0.913032566666667

00:36:24.415 --> 00:36:26.679 count from 1 to 30 in a single breath,  
NOTE Confidence: 0.913032566666667

00:36:26.680 --> 00:36:28.600 and as rapidly as possible.  
NOTE Confidence: 0.913032566666667

00:36:28.600 --> 00:36:30.511 And the primary result of that Roth  
NOTE Confidence: 0.913032566666667

00:36:30.511 --> 00:36:32.462 score is the duration of time they  
NOTE Confidence: 0.913032566666667

00:36:32.462 --> 00:36:34.481 are able to count and the highest  
NOTE Confidence: 0.913032566666667

00:36:34.481 --> 00:36:36.236 number they're able to reach.  
NOTE Confidence: 0.913032566666667

00:36:36.240 --> 00:36:38.074 A maximal counting number less than 10,  
NOTE Confidence: 0.913032566666667

00:36:38.080 --> 00:36:40.560 or a count time of less than 7  
NOTE Confidence: 0.913032566666667

00:36:40.560 --> 00:36:42.120 seconds identifies patients with a  
NOTE Confidence: 0.913032566666667

00:36:42.120 --> 00:36:44.576 room air pulse ox of less than 95%  
NOTE Confidence: 0.913032566666667

00:36:44.576 --> 00:36:47.575 with a sensitivity of 91% and 83%,  
NOTE Confidence: 0.913032566666667

00:36:47.575 --> 00:36:48.020 respectively.  
NOTE Confidence: 0.913032566666667

00:36:48.020 --> 00:36:51.136 And if they can only count to

NOTE Confidence: 0.913032566666667  
00:36:51.136 --> 00:36:52.548 7 seconds or less,  
NOTE Confidence: 0.913032566666667  
00:36:52.550 --> 00:36:56.069 or their count time is less than 5 seconds,  
NOTE Confidence: 0.913032566666667  
00:36:56.070 --> 00:36:57.978 that can identify patients with the  
NOTE Confidence: 0.913032566666667  
00:36:57.978 --> 00:37:00.270 room air pulse ox of less than 90%  
NOTE Confidence: 0.913032566666667  
00:37:00.270 --> 00:37:03.473 with a sensitivity of 87% and 82% each.  
NOTE Confidence: 0.913032566666667  
00:37:03.473 --> 00:37:06.959 So this is a tool that not too  
NOTE Confidence: 0.913032566666667  
00:37:06.959 --> 00:37:09.819 many clinicians sort of anecdotally  
NOTE Confidence: 0.913032566666667  
00:37:09.819 --> 00:37:12.690 that are aware of and so.  
NOTE Confidence: 0.913032566666667  
00:37:12.690 --> 00:37:15.010 It would be ideal if these types of  
NOTE Confidence: 0.913032566666667  
00:37:15.080 --> 00:37:17.240 devices were measuring objective  
NOTE Confidence: 0.913032566666667  
00:37:17.240 --> 00:37:19.376 numbers to ascertain hypoxia were  
NOTE Confidence: 0.913032566666667  
00:37:19.376 --> 00:37:21.371 actually available and as ubiquitous  
NOTE Confidence: 0.913032566666667  
00:37:21.371 --> 00:37:23.401 as something like ATV remote control  
NOTE Confidence: 0.913032566666667  
00:37:23.401 --> 00:37:24.966 or cable box or a  
NOTE Confidence: 0.94830432  
00:37:25.031 --> 00:37:26.901 fire extinguisher that could be  
NOTE Confidence: 0.94830432

00:37:26.901 --> 00:37:29.188 found in the average American home.  
NOTE Confidence: 0.94830432

00:37:29.188 --> 00:37:32.044 And that'll segue nicely into the next  
NOTE Confidence: 0.94830432

00:37:32.044 --> 00:37:34.758 panel about access equity and sort of  
NOTE Confidence: 0.94830432

00:37:34.758 --> 00:37:37.589 the influence that we as physicians can  
NOTE Confidence: 0.94830432

00:37:37.589 --> 00:37:40.379 have with policymakers and pairs to.  
NOTE Confidence: 0.94830432

00:37:40.380 --> 00:37:42.396 Invest in this kind of technology  
NOTE Confidence: 0.94830432

00:37:42.396 --> 00:37:44.783 as part of something that can be  
NOTE Confidence: 0.94830432

00:37:44.783 --> 00:37:46.413 used in virtual care delivery.  
NOTE Confidence: 0.94830432

00:37:46.420 --> 00:37:49.899 So for ascertaining things like heart rates,  
NOTE Confidence: 0.94830432

00:37:49.900 --> 00:37:52.030 the Fitbit can provide that  
NOTE Confidence: 0.94830432

00:37:52.030 --> 00:37:53.820 and the Apple Watch E KG,  
NOTE Confidence: 0.94830432

00:37:53.820 --> 00:37:56.670 the Series 5 pictured here can  
NOTE Confidence: 0.94830432

00:37:56.670 --> 00:37:58.490 also ascertain 3 lead EKG's.  
NOTE Confidence: 0.94830432

00:37:58.490 --> 00:38:00.520 There are other devices on the market  
NOTE Confidence: 0.94830432

00:38:00.581 --> 00:38:02.457 that can ascertain up to six lead  
NOTE Confidence: 0.94830432

00:38:02.460 --> 00:38:06.440 EKG's with wireless remote technology.

NOTE Confidence: 0.94830432

00:38:06.440 --> 00:38:08.337 One of the benefits that could be

NOTE Confidence: 0.94830432

00:38:08.337 --> 00:38:10.187 seen here using evaluation for cardiac

NOTE Confidence: 0.94830432

00:38:10.187 --> 00:38:12.469 patients and routine follow up or if

NOTE Confidence: 0.94830432

00:38:12.532 --> 00:38:14.920 they're having an urgent care concern

NOTE Confidence: 0.94830432

00:38:14.920 --> 00:38:16.512 like they're feeling palpitations,

NOTE Confidence: 0.94830432

00:38:16.520 --> 00:38:18.617 you might be able to say you know this

NOTE Confidence: 0.94830432

00:38:18.617 --> 00:38:20.456 looks like sinus tachycardia or SVT.

NOTE Confidence: 0.94830432

00:38:20.456 --> 00:38:22.874 Maybe we could try some bagel maneuvers

NOTE Confidence: 0.94830432

00:38:22.874 --> 00:38:24.956 at home before sending you in,

NOTE Confidence: 0.94830432

00:38:24.960 --> 00:38:27.418 especially if the patient is in a

NOTE Confidence: 0.94830432

00:38:27.418 --> 00:38:28.741 high risk COVID area or is afraid

NOTE Confidence: 0.94830432

00:38:28.741 --> 00:38:30.562 of going in which tends to be much

NOTE Confidence: 0.94830432

00:38:30.562 --> 00:38:32.163 of the collateral damage that we're

NOTE Confidence: 0.94830432

00:38:32.163 --> 00:38:33.909 seeing during COVID where patients are

NOTE Confidence: 0.94830432

00:38:33.909 --> 00:38:35.440 having symptoms or they're concerned.

NOTE Confidence: 0.94830432

00:38:35.440 --> 00:38:37.300 But they're really afraid to go  
NOTE Confidence: 0.94830432

00:38:37.350 --> 00:38:38.350 in because of COVID,  
NOTE Confidence: 0.94830432

00:38:38.350 --> 00:38:40.303 and so they end up having adverse  
NOTE Confidence: 0.94830432

00:38:40.303 --> 00:38:41.891 events from things that are not  
NOTE Confidence: 0.94830432

00:38:41.891 --> 00:38:45.550 taken care of because of their fear.  
NOTE Confidence: 0.94830432

00:38:45.550 --> 00:38:47.860 Other things such as the Pulse ox  
NOTE Confidence: 0.94830432

00:38:47.860 --> 00:38:49.129 are pretty routinely available  
NOTE Confidence: 0.94830432

00:38:49.129 --> 00:38:50.068 at most pharmacies,  
NOTE Confidence: 0.94830432

00:38:50.070 --> 00:38:50.998 although during COVID periods  
NOTE Confidence: 0.94830432

00:38:50.998 --> 00:38:52.390 much of that has sold out,  
NOTE Confidence: 0.94830432

00:38:52.390 --> 00:38:55.310 including on things like Amazon.  
NOTE Confidence: 0.94830432

00:38:55.310 --> 00:38:57.837 And then we also have the digital  
NOTE Confidence: 0.94830432

00:38:57.837 --> 00:39:00.438 scales that can be synced to  
NOTE Confidence: 0.94830432

00:39:00.438 --> 00:39:01.875 Bluetooth technology with.  
NOTE Confidence: 0.94830432

00:39:01.880 --> 00:39:04.239 Apps and iPhones and can also be  
NOTE Confidence: 0.94830432

00:39:04.239 --> 00:39:05.928 synced with electronic medical

NOTE Confidence: 0.94830432

00:39:05.928 --> 00:39:07.971 records so that a patient might

NOTE Confidence: 0.94830432

00:39:07.971 --> 00:39:09.033 tell you what their weight is,

NOTE Confidence: 0.94830432

00:39:09.040 --> 00:39:11.224 but might that might differ significantly

NOTE Confidence: 0.94830432

00:39:11.224 --> 00:39:13.545 than what is actually recorded and

NOTE Confidence: 0.94830432

00:39:13.545 --> 00:39:15.960 so it keeps people honest as well.

NOTE Confidence: 0.94830432

00:39:15.960 --> 00:39:16.520 Next slide.

NOTE Confidence: 0.933143318695652

00:39:22.280 --> 00:39:24.828 So these are more advanced devices that

NOTE Confidence: 0.933143318695652

00:39:24.828 --> 00:39:27.320 can be used to ascertain different

NOTE Confidence: 0.933143318695652

00:39:27.320 --> 00:39:29.972 aspects of the physical exam that

NOTE Confidence: 0.933143318695652

00:39:29.972 --> 00:39:32.350 might be subspecialist specific.

NOTE Confidence: 0.933143318695652

00:39:32.350 --> 00:39:34.737 So the butterfly IQ pictured in the

NOTE Confidence: 0.933143318695652

00:39:34.737 --> 00:39:36.901 bottom left is a remote ultrasound

NOTE Confidence: 0.933143318695652

00:39:36.901 --> 00:39:39.386 that can be used with an iPhone.

NOTE Confidence: 0.933143318695652

00:39:39.390 --> 00:39:40.896 Typically the applications for this might

NOTE Confidence: 0.933143318695652

00:39:40.896 --> 00:39:43.028 be used in the setting of paramedicine,

NOTE Confidence: 0.933143318695652

00:39:43.030 --> 00:39:46.102 where a patient might be able to be  
NOTE Confidence: 0.933143318695652

00:39:46.102 --> 00:39:48.166 evaluated remotely with a paramedic  
NOTE Confidence: 0.933143318695652

00:39:48.166 --> 00:39:51.442 who's been trained in how to apply  
NOTE Confidence: 0.933143318695652

00:39:51.442 --> 00:39:53.440 the the device to the patient's  
NOTE Confidence: 0.933143318695652

00:39:53.440 --> 00:39:55.439 chest or whichever body part they're  
NOTE Confidence: 0.933143318695652

00:39:55.439 --> 00:39:56.669 looking to ultrasound.  
NOTE Confidence: 0.933143318695652

00:39:56.670 --> 00:39:58.722 It can also be used for  
NOTE Confidence: 0.933143318695652

00:39:58.722 --> 00:39:59.748 things like assessing.  
NOTE Confidence: 0.933143318695652

00:39:59.750 --> 00:40:02.080 Remote fetal activity for pregnant  
NOTE Confidence: 0.933143318695652

00:40:02.080 --> 00:40:03.944 mothers who are concerned,  
NOTE Confidence: 0.933143318695652

00:40:03.950 --> 00:40:05.348 or if someone has abdominal pain,  
NOTE Confidence: 0.933143318695652

00:40:05.350 --> 00:40:08.045 it's an easy way to assess the patient's  
NOTE Confidence: 0.933143318695652

00:40:08.045 --> 00:40:10.670 gallbladder or kidneys if they're  
NOTE Confidence: 0.933143318695652

00:40:10.670 --> 00:40:13.789 having back pain or urinary symptoms.  
NOTE Confidence: 0.933143318695652

00:40:13.790 --> 00:40:18.230 Above that is the Eco Duo  
NOTE Confidence: 0.933143318695652

00:40:18.230 --> 00:40:20.318 EKG and Digital stethoscope,

NOTE Confidence: 0.933143318695652  
00:40:20.318 --> 00:40:22.928 which enables remote auscultation and  
NOTE Confidence: 0.933143318695652  
00:40:22.928 --> 00:40:25.476 can also be done while visualizing  
NOTE Confidence: 0.933143318695652  
00:40:25.476 --> 00:40:27.032 A realtime E kg.  
NOTE Confidence: 0.933143318695652  
00:40:27.040 --> 00:40:31.856 The devices to the right in green  
NOTE Confidence: 0.933143318695652  
00:40:31.856 --> 00:40:33.996 are sort of neurospecific devices  
NOTE Confidence: 0.933143318695652  
00:40:33.996 --> 00:40:35.760 that can be used.  
NOTE Confidence: 0.933143318695652  
00:40:35.760 --> 00:40:37.550 The Impatica biosensor was developed  
NOTE Confidence: 0.933143318695652  
00:40:37.550 --> 00:40:39.985 by Roslyn Picard at the MIT Media  
NOTE Confidence: 0.933143318695652  
00:40:39.985 --> 00:40:42.029 Lab and that can be used for  
NOTE Confidence: 0.933143318695652  
00:40:42.029 --> 00:40:43.816 evaluating and detecting elevated  
NOTE Confidence: 0.933143318695652  
00:40:43.816 --> 00:40:45.724 sympathetic nervous system activity  
NOTE Confidence: 0.933143318695652  
00:40:45.724 --> 00:40:47.675 and prodrial seizure activity,  
NOTE Confidence: 0.933143318695652  
00:40:47.675 --> 00:40:49.735 and can prevent unnecessary  
NOTE Confidence: 0.933143318695652  
00:40:49.735 --> 00:40:51.795 deaths from unwitnessed seizures,  
NOTE Confidence: 0.933143318695652  
00:40:51.800 --> 00:40:52.679 especially in kids.  
NOTE Confidence: 0.93421556

00:40:54.780 --> 00:40:57.554 The device in the top right  
NOTE Confidence: 0.93421556

00:40:57.554 --> 00:40:59.530 is the Affectiva wearable  
NOTE Confidence: 0.93421556

00:40:59.530 --> 00:41:02.420 biosensor from the MIT Media Lab,  
NOTE Confidence: 0.93421556

00:41:02.420 --> 00:41:05.150 which I had done some research on  
NOTE Confidence: 0.93421556

00:41:05.150 --> 00:41:07.109 during medical school with doctor  
NOTE Confidence: 0.93421556

00:41:07.109 --> 00:41:10.538 Ed Boyer and we use that to detect.  
NOTE Confidence: 0.93421556

00:41:10.540 --> 00:41:13.090 We use signal processing from that  
NOTE Confidence: 0.93421556

00:41:13.090 --> 00:41:15.250 sensor to detect patients craving  
NOTE Confidence: 0.93421556

00:41:15.250 --> 00:41:17.284 and actual use of cocaine and  
NOTE Confidence: 0.93421556

00:41:17.284 --> 00:41:19.012 opioids and it used a combination  
NOTE Confidence: 0.93421556

00:41:19.012 --> 00:41:21.170 of looking at patients heart rates.  
NOTE Confidence: 0.93421556

00:41:21.170 --> 00:41:23.105 Their electrodermal activity and their  
NOTE Confidence: 0.93421556

00:41:23.105 --> 00:41:24.653 peripheral body temperatures and  
NOTE Confidence: 0.93421556

00:41:24.653 --> 00:41:27.044 how that might vary with times that  
NOTE Confidence: 0.93421556

00:41:27.044 --> 00:41:29.329 they're experiencing craving and use.  
NOTE Confidence: 0.93421556

00:41:29.330 --> 00:41:31.004 And it was very distinguishable from

NOTE Confidence: 0.93421556  
00:41:31.004 --> 00:41:32.591 other types of elevated sympathetic  
NOTE Confidence: 0.93421556  
00:41:32.591 --> 00:41:33.848 nervous system activity,  
NOTE Confidence: 0.93421556  
00:41:33.850 --> 00:41:35.405 including if they were riding  
NOTE Confidence: 0.93421556  
00:41:35.405 --> 00:41:37.360 a roller coaster or going for a  
NOTE Confidence: 0.93421556  
00:41:37.360 --> 00:41:38.962 run and the signals were.  
NOTE Confidence: 0.93421556  
00:41:38.962 --> 00:41:41.512 Used to identify and and In many  
NOTE Confidence: 0.93421556  
00:41:41.512 --> 00:41:44.088 ways the goal was to try to prevent  
NOTE Confidence: 0.93421556  
00:41:44.088 --> 00:41:46.604 the relapse by triggering a signal  
NOTE Confidence: 0.93421556  
00:41:46.604 --> 00:41:49.050 to their support network in a,  
NOTE Confidence: 0.93421556  
00:41:49.050 --> 00:41:51.370 a or things like that to encourage  
NOTE Confidence: 0.93421556  
00:41:51.370 --> 00:41:53.204 the patient to seek alternative  
NOTE Confidence: 0.93421556  
00:41:53.204 --> 00:41:55.089 avenues to meet their cravings  
NOTE Confidence: 0.895175477894737  
00:41:57.890 --> 00:41:59.826 in the middle. In the blue on top  
NOTE Confidence: 0.895175477894737  
00:41:59.826 --> 00:42:01.372 we've got the neuro ophthalmology  
NOTE Confidence: 0.895175477894737  
00:42:01.372 --> 00:42:03.364 tools from the Volk ion view,  
NOTE Confidence: 0.895175477894737

00:42:03.370 --> 00:42:06.332 which is something that can be used to look.  
NOTE Confidence: 0.895175477894737

00:42:06.332 --> 00:42:08.586 Through the iPhone using a Fundus camera.  
NOTE Confidence: 0.895175477894737

00:42:08.590 --> 00:42:11.838 And then there's also below the title care  
NOTE Confidence: 0.895175477894737

00:42:11.838 --> 00:42:14.902 devices that can be used and are linked  
NOTE Confidence: 0.895175477894737

00:42:14.902 --> 00:42:17.830 with on demand virtual care subscriptions.  
NOTE Confidence: 0.895175477894737

00:42:17.830 --> 00:42:20.371 These are things that can be used  
NOTE Confidence: 0.895175477894737

00:42:20.371 --> 00:42:23.314 to do throat exams and ear and eye  
NOTE Confidence: 0.895175477894737

00:42:23.314 --> 00:42:28.030 exams and are good ways to sort of  
NOTE Confidence: 0.895175477894737

00:42:28.030 --> 00:42:30.030 evaluate remotely orifices that might  
NOTE Confidence: 0.895175477894737

00:42:30.105 --> 00:42:32.655 not be so easily evaluated otherwise.  
NOTE Confidence: 0.895175477894737

00:42:32.660 --> 00:42:34.802 And then there's also not featured here  
NOTE Confidence: 0.895175477894737

00:42:34.802 --> 00:42:37.420 something called the Mid, Mid Tygo,  
NOTE Confidence: 0.895175477894737

00:42:37.420 --> 00:42:39.730 which is a subscription service where  
NOTE Confidence: 0.895175477894737

00:42:39.730 --> 00:42:42.126 they provide these types of tools to be  
NOTE Confidence: 0.895175477894737

00:42:42.126 --> 00:42:44.219 used in the home and they included in  
NOTE Confidence: 0.895175477894737

00:42:44.219 --> 00:42:46.298 something that they call their life pack.

NOTE Confidence: 0.895175477894737  
00:42:46.300 --> 00:42:48.700 And the idea is that it links them  
NOTE Confidence: 0.895175477894737  
00:42:48.700 --> 00:42:51.377 with a telehealth service and a  
NOTE Confidence: 0.895175477894737  
00:42:51.377 --> 00:42:53.424 physician access and tools that they  
NOTE Confidence: 0.895175477894737  
00:42:53.424 --> 00:42:55.381 can use remotely so that if they  
NOTE Confidence: 0.895175477894737  
00:42:55.381 --> 00:42:57.337 don't have access to them otherwise,  
NOTE Confidence: 0.895175477894737  
00:42:57.340 --> 00:42:59.252 they're provided with the  
NOTE Confidence: 0.895175477894737  
00:42:59.252 --> 00:43:01.164 toolkits from Mid Tygo.  
NOTE Confidence: 0.895175477894737  
00:43:01.170 --> 00:43:03.954 So one thing to think about just in  
NOTE Confidence: 0.895175477894737  
00:43:03.954 --> 00:43:07.265 going back to the sort of vital sign  
NOTE Confidence: 0.895175477894737  
00:43:07.265 --> 00:43:09.010 ascertainment one of the institutions  
NOTE Confidence: 0.895175477894737  
00:43:09.010 --> 00:43:10.990 that's been using these types of  
NOTE Confidence: 0.895175477894737  
00:43:11.050 --> 00:43:13.288 devices is Ochner Health in Louisiana.  
NOTE Confidence: 0.895175477894737  
00:43:13.290 --> 00:43:14.136 And they have,  
NOTE Confidence: 0.895175477894737  
00:43:14.136 --> 00:43:15.546 they represent a unique case  
NOTE Confidence: 0.895175477894737  
00:43:15.546 --> 00:43:17.336 study where they offer sort of  
NOTE Confidence: 0.895175477894737

00:43:17.336 --> 00:43:18.796 prescribable devices and apps that  
NOTE Confidence: 0.895175477894737

00:43:18.796 --> 00:43:20.688 are vetted by their doctors there.  
NOTE Confidence: 0.895175477894737

00:43:20.690 --> 00:43:22.615 And they offer it in conjunction with  
NOTE Confidence: 0.895175477894737

00:43:22.615 --> 00:43:24.773 what they use or partner with a retail  
NOTE Confidence: 0.895175477894737

00:43:24.773 --> 00:43:27.009 O bar and it functions like an Apple  
NOTE Confidence: 0.895175477894737

00:43:27.009 --> 00:43:28.524 Genius Bar providing tech devices  
NOTE Confidence: 0.895175477894737

00:43:28.524 --> 00:43:30.606 and apps and training and teaching.  
NOTE Confidence: 0.895175477894737

00:43:30.606 --> 00:43:32.451 At their various clinical sites  
NOTE Confidence: 0.895175477894737

00:43:32.451 --> 00:43:34.275 and one of the programs they've  
NOTE Confidence: 0.895175477894737

00:43:34.275 --> 00:43:36.510 used it for is with hypertension.  
NOTE Confidence: 0.895175477894737

00:43:36.510 --> 00:43:38.935 So patients enrolled in their  
NOTE Confidence: 0.895175477894737

00:43:38.935 --> 00:43:40.390 digital hypertension program,  
NOTE Confidence: 0.895175477894737

00:43:40.390 --> 00:43:42.350 they need to have access to a smartphone  
NOTE Confidence: 0.895175477894737

00:43:42.350 --> 00:43:44.547 and then the patient will pick up a  
NOTE Confidence: 0.895175477894737

00:43:44.547 --> 00:43:45.949 wireless blood pressure cuff either  
NOTE Confidence: 0.895175477894737

00:43:45.949 --> 00:43:47.909 at the O bar or via mail fulfillment.

NOTE Confidence: 0.895175477894737  
00:43:47.910 --> 00:43:49.635 And then they take their  
NOTE Confidence: 0.895175477894737  
00:43:49.635 --> 00:43:50.670 blood pressure routinely.  
NOTE Confidence: 0.895175477894737  
00:43:50.670 --> 00:43:53.110 And then the readings are  
NOTE Confidence: 0.895175477894737  
00:43:53.110 --> 00:43:55.550 automatically integrated with the EHR.  
NOTE Confidence: 0.895175477894737  
00:43:55.550 --> 00:43:57.104 And this way the patient's care  
NOTE Confidence: 0.895175477894737  
00:43:57.104 --> 00:43:58.968 teams are able to see their data  
NOTE Confidence: 0.895175477894737  
00:43:58.968 --> 00:44:00.516 remotely and they can see it.  
NOTE Confidence: 0.895175477894737  
00:44:00.520 --> 00:44:03.130 As it changes over time and  
NOTE Confidence: 0.895175477894737  
00:44:03.130 --> 00:44:04.435 intervene when necessary.  
NOTE Confidence: 0.895175477894737  
00:44:04.440 --> 00:44:07.009 They published some of their outcomes from  
NOTE Confidence: 0.895175477894737  
00:44:07.009 --> 00:44:09.919 this study and they found that at 90 days,  
NOTE Confidence: 0.895175477894737  
00:44:09.920 --> 00:44:12.110 71% of patients in the hypertension  
NOTE Confidence: 0.895175477894737  
00:44:12.110 --> 00:44:13.570 digital medicine cohort achieved  
NOTE Confidence: 0.895175477894737  
00:44:13.628 --> 00:44:15.240 target blood pressure control,  
NOTE Confidence: 0.895175477894737  
00:44:15.240 --> 00:44:17.984 whereas only 31% of patients getting usual  
NOTE Confidence: 0.895175477894737

00:44:17.984 --> 00:44:20.680 care achieved their blood pressure control.  
NOTE Confidence: 0.895175477894737

00:44:20.680 --> 00:44:23.536 So there is some data to support  
NOTE Confidence: 0.895175477894737

00:44:23.536 --> 00:44:26.092 efficacy and using this digital  
NOTE Confidence: 0.895175477894737

00:44:26.092 --> 00:44:28.596 evaluation technique with devices.  
NOTE Confidence: 0.895175477894737

00:44:28.600 --> 00:44:28.960 Thank you,  
NOTE Confidence: 0.89790989

00:44:29.400 --> 00:44:32.696 Kelly. So we are going to move on  
NOTE Confidence: 0.89790989

00:44:32.696 --> 00:44:35.320 with the with looking at our time.  
NOTE Confidence: 0.89790989

00:44:35.320 --> 00:44:38.830 We want to make sure that we give time for  
NOTE Confidence: 0.89790989

00:44:38.830 --> 00:44:42.280 our panelists to answer some questions.  
NOTE Confidence: 0.89790989

00:44:42.280 --> 00:44:45.220 So as far as Neil,  
NOTE Confidence: 0.89790989

00:44:45.220 --> 00:44:47.771 I wanted to ask you how you know  
NOTE Confidence: 0.89790989

00:44:47.771 --> 00:44:49.836 you have some great simulations.  
NOTE Confidence: 0.89790989

00:44:49.840 --> 00:44:51.520 I think these are perfect  
NOTE Confidence: 0.89790989

00:44:51.520 --> 00:44:53.200 for physicians on you know,  
NOTE Confidence: 0.89790989

00:44:53.200 --> 00:44:55.508 just basic simple techniques  
NOTE Confidence: 0.89790989

00:44:55.508 --> 00:44:57.239 for website manner.

NOTE Confidence: 0.89790989

00:44:57.240 --> 00:45:00.138 How do you evaluate the effectiveness of

NOTE Confidence: 0.89790989

00:45:00.138 --> 00:45:02.359 these simulation models when teaching?

NOTE Confidence: 0.95031697

00:45:03.800 --> 00:45:06.320 That's an excellent question.

NOTE Confidence: 0.95031697

00:45:06.320 --> 00:45:09.374 So right now, we're doing it mostly

NOTE Confidence: 0.95031697

00:45:09.374 --> 00:45:12.650 based on feedback from our participants,

NOTE Confidence: 0.95031697

00:45:12.650 --> 00:45:15.254 all of the sessions that go

NOTE Confidence: 0.95031697

00:45:15.254 --> 00:45:16.842 into special specialty areas.

NOTE Confidence: 0.95031697

00:45:16.842 --> 00:45:18.762 So we've done this training

NOTE Confidence: 0.95031697

00:45:18.762 --> 00:45:19.530 with dermatologists,

NOTE Confidence: 0.95031697

00:45:19.530 --> 00:45:21.130 we've done it with psychiatrists.

NOTE Confidence: 0.95031697

00:45:21.130 --> 00:45:23.290 We have faculty members from their

NOTE Confidence: 0.95031697

00:45:23.290 --> 00:45:25.144 department actually join us for

NOTE Confidence: 0.95031697

00:45:25.144 --> 00:45:27.410 the simulations and the debriefs to

NOTE Confidence: 0.95031697

00:45:27.410 --> 00:45:29.490 give their personalized perspective.

NOTE Confidence: 0.95031697

00:45:29.490 --> 00:45:31.302 And we've actually modified the course

NOTE Confidence: 0.95031697

00:45:31.302 --> 00:45:33.567 over the course of the last two years.

NOTE Confidence: 0.95031697

00:45:33.570 --> 00:45:35.554 Based on all that feedback to the point

NOTE Confidence: 0.95031697

00:45:35.554 --> 00:45:37.804 where it is right now and tailored

NOTE Confidence: 0.95031697

00:45:37.804 --> 00:45:40.489 it specifically to to specialists,

NOTE Confidence: 0.95031697

00:45:40.490 --> 00:45:42.218 I think one of the things that we're

NOTE Confidence: 0.95031697

00:45:42.218 --> 00:45:44.173 going to be looking at is really do

NOTE Confidence: 0.95031697

00:45:44.173 --> 00:45:45.732 these simulations and do what do

NOTE Confidence: 0.95031697

00:45:45.732 --> 00:45:47.580 the improvements that we see in the

NOTE Confidence: 0.95031697

00:45:47.580 --> 00:45:49.174 simulations correlate to actual care.

NOTE Confidence: 0.95031697

00:45:49.174 --> 00:45:51.532 And I don't think we have an

NOTE Confidence: 0.95031697

00:45:51.532 --> 00:45:52.728 answer for that yet.

NOTE Confidence: 0.95031697

00:45:52.730 --> 00:45:54.145 I think that's something that

NOTE Confidence: 0.95031697

00:45:54.145 --> 00:45:56.232 we need to look into and really

NOTE Confidence: 0.95031697

00:45:56.232 --> 00:45:57.767 figure out how to evaluate.

NOTE Confidence: 0.95031697

00:45:57.770 --> 00:45:59.342 It could be a checklist kind

NOTE Confidence: 0.95031697

00:45:59.342 --> 00:46:00.404 of evaluation where.

NOTE Confidence: 0.95031697

00:46:00.404 --> 00:46:01.198 You know,

NOTE Confidence: 0.95031697

00:46:01.198 --> 00:46:03.580 we have tapes of these learners

NOTE Confidence: 0.95031697

00:46:03.653 --> 00:46:05.590 and so we can definitely utilize

NOTE Confidence: 0.95031697

00:46:05.590 --> 00:46:07.830 checklists and and do it that way.

NOTE Confidence: 0.95031697

00:46:07.830 --> 00:46:09.710 But until that checklist is,

NOTE Confidence: 0.95031697

00:46:09.710 --> 00:46:11.245 we have a validated checklist

NOTE Confidence: 0.95031697

00:46:11.245 --> 00:46:13.216 which I think was referred to by

NOTE Confidence: 0.95031697

00:46:13.216 --> 00:46:14.658 Doctor Joshi in the previous panel,

NOTE Confidence: 0.95031697

00:46:14.658 --> 00:46:16.639 it's hard to see whether or not you

NOTE Confidence: 0.95031697

00:46:16.639 --> 00:46:18.790 actually have that translation of skill.

NOTE Confidence: 0.95031697

00:46:18.790 --> 00:46:19.786 So I think that's the future.

NOTE Confidence: 0.95031697

00:46:19.790 --> 00:46:21.166 That's where we have to go with this

NOTE Confidence: 0.95031697

00:46:21.166 --> 00:46:22.844 and I think it's going to be very

NOTE Confidence: 0.95031697

00:46:22.844 --> 00:46:24.350 important as we continue to train people.

NOTE Confidence: 0.925607725

00:46:26.110 --> 00:46:27.230 Thank you, Neil. Laura,

NOTE Confidence: 0.925607725

00:46:27.230 --> 00:46:29.424 can you speak more on the differences

NOTE Confidence: 0.925607725

00:46:29.424 --> 00:46:31.709 for new versus established patients,

NOTE Confidence: 0.925607725

00:46:31.710 --> 00:46:33.502 particularly as trust me,

NOTE Confidence: 0.925607725

00:46:33.502 --> 00:46:35.742 I've already been developed for

NOTE Confidence: 0.925607725

00:46:35.750 --> 00:46:39.022 the established patients during

NOTE Confidence: 0.925607725

00:46:39.022 --> 00:46:40.590 prior in person encounters.

NOTE Confidence: 0.950317

00:46:44.310 --> 00:46:46.430 Sorry, I have to hit on mute. Not being

NOTE Confidence: 0.9603804

00:46:46.430 --> 00:46:48.668 very technical today,

NOTE Confidence: 0.9603804

00:46:48.670 --> 00:46:50.915 I have to say that I don't think

NOTE Confidence: 0.9603804

00:46:50.915 --> 00:46:53.621 that we have gotten to that level of

NOTE Confidence: 0.9603804

00:46:53.621 --> 00:46:55.746 granularity with our telehealth education.

NOTE Confidence: 0.9603804

00:46:55.750 --> 00:46:59.430 I think, I think that there you'd

NOTE Confidence: 0.9603804

00:46:59.430 --> 00:47:01.806 probably want to take it on a case

NOTE Confidence: 0.9603804

00:47:01.806 --> 00:47:04.187 by case basis depending on how

NOTE Confidence: 0.9603804

00:47:04.187 --> 00:47:06.890 you've structured your curriculum

NOTE Confidence: 0.9603804

00:47:06.890 --> 00:47:10.590 and delivery as to whether you

NOTE Confidence: 0.9603804

00:47:10.590 --> 00:47:13.198 would actually need to distinguish

NOTE Confidence: 0.9603804

00:47:13.198 --> 00:47:15.790 between established versus new.

NOTE Confidence: 0.9603804

00:47:15.790 --> 00:47:17.386 But we have not taken that approach.

NOTE Confidence: 0.9603804

00:47:17.390 --> 00:47:20.400 We've taken more of a.

NOTE Confidence: 0.9603804

00:47:20.400 --> 00:47:23.515 A standard approach where we're

NOTE Confidence: 0.9603804

00:47:23.515 --> 00:47:25.384 emphasizing empathetic communication

NOTE Confidence: 0.9603804

00:47:25.384 --> 00:47:28.240 versus like distinguishing how how

NOTE Confidence: 0.9603804

00:47:28.240 --> 00:47:30.140 the communication may be different

NOTE Confidence: 0.9603804

00:47:30.140 --> 00:47:31.840 between established versus new patient.

NOTE Confidence: 0.8685869975

00:47:33.560 --> 00:47:36.764 And you had also sparked the spoke on the

NOTE Confidence: 0.8685869975

00:47:36.764 --> 00:47:40.218 role of of having Tele telehealth champions.

NOTE Confidence: 0.8685869975

00:47:40.220 --> 00:47:42.980 We've developed at Indiana University

NOTE Confidence: 0.8685869975

00:47:42.980 --> 00:47:46.236 a telehealth panel of champions from

NOTE Confidence: 0.8685869975

00:47:46.236 --> 00:47:49.148 I think 20 to 30 different departments

NOTE Confidence: 0.8685869975

00:47:49.148 --> 00:47:52.458 and it's it's intriguing how how you

NOTE Confidence: 0.8685869975

00:47:52.458 --> 00:47:55.531 know their uptake or acceptance of the  
NOTE Confidence: 0.8685869975

00:47:55.531 --> 00:47:58.647 importance of the role of telehealth in  
NOTE Confidence: 0.8685869975

00:47:58.647 --> 00:48:01.493 their own department really affects how  
NOTE Confidence: 0.8685869975

00:48:01.493 --> 00:48:04.613 they communicate to their other providers.  
NOTE Confidence: 0.8685869975

00:48:04.620 --> 00:48:06.128 And the the effective  
NOTE Confidence: 0.8685869975

00:48:06.128 --> 00:48:07.259 dissemination of information.  
NOTE Confidence: 0.8685869975

00:48:07.260 --> 00:48:11.058 So how do you think you best engage  
NOTE Confidence: 0.8685869975

00:48:11.058 --> 00:48:12.936 champions, virtual champions,  
NOTE Confidence: 0.92012691

00:48:15.980 --> 00:48:16.778 I I mean  
NOTE Confidence: 0.9364799425

00:48:16.780 --> 00:48:19.420 I guess we've just adopted kind  
NOTE Confidence: 0.9364799425

00:48:19.420 --> 00:48:22.356 of a we with our champions.  
NOTE Confidence: 0.9364799425

00:48:22.356 --> 00:48:25.204 I guess we just adopt A.  
NOTE Confidence: 0.9364799425

00:48:25.204 --> 00:48:27.164 Approach where we're just developing  
NOTE Confidence: 0.9364799425

00:48:27.164 --> 00:48:29.185 a close relationship with them and  
NOTE Confidence: 0.9364799425

00:48:29.185 --> 00:48:31.180 as we're developing the education  
NOTE Confidence: 0.9364799425

00:48:31.180 --> 00:48:33.630 and looking to implement it,

NOTE Confidence: 0.9364799425

00:48:33.630 --> 00:48:34.794 we're just working.

NOTE Confidence: 0.9364799425

00:48:34.794 --> 00:48:37.122 We're just giving them more support

NOTE Confidence: 0.9364799425

00:48:37.122 --> 00:48:39.226 and time and interacting with them

NOTE Confidence: 0.9364799425

00:48:39.226 --> 00:48:41.458 to make sure that they're successful

NOTE Confidence: 0.9364799425

00:48:41.458 --> 00:48:43.512 and getting the education implemented

NOTE Confidence: 0.9364799425

00:48:43.512 --> 00:48:46.398 and that we're responsive to their

NOTE Confidence: 0.9364799425

00:48:46.398 --> 00:48:48.736 feedback and to make changes or

NOTE Confidence: 0.9364799425

00:48:48.736 --> 00:48:50.910 or pivots based on on their input.

NOTE Confidence: 0.93622824

00:48:52.620 --> 00:48:55.952 And Ron, you had spoken on medical

NOTE Confidence: 0.93622824

00:48:55.952 --> 00:48:59.501 schools and that includes ours here in

NOTE Confidence: 0.93622824

00:48:59.501 --> 00:49:02.490 Indiana University being late to the game

NOTE Confidence: 0.93622824

00:49:02.572 --> 00:49:05.500 As far as advancements in innovation,

NOTE Confidence: 0.93622824

00:49:05.500 --> 00:49:07.644 how do we get our medical schools to

NOTE Confidence: 0.93622824

00:49:07.644 --> 00:49:09.985 see the importance of advancing in

NOTE Confidence: 0.93622824

00:49:09.985 --> 00:49:12.192 the innovations, particularly around

NOTE Confidence: 0.93622824

00:49:12.192 --> 00:49:14.856 peripheral devices in telemedicine  
NOTE Confidence: 0.888110158333333

00:49:15.900 --> 00:49:17.874 1 message is that there's there's  
NOTE Confidence: 0.888110158333333

00:49:17.874 --> 00:49:19.889 just tons of money out there.  
NOTE Confidence: 0.888110158333333

00:49:19.890 --> 00:49:23.010 For Pacori grants and NIH grants  
NOTE Confidence: 0.888110158333333

00:49:23.010 --> 00:49:24.886 and in that book that I mentioned,  
NOTE Confidence: 0.888110158333333

00:49:24.890 --> 00:49:26.365 we just published a chapter  
NOTE Confidence: 0.888110158333333

00:49:26.365 --> 00:49:28.530 on the 1st 10 years of Pacori,  
NOTE Confidence: 0.888110158333333

00:49:28.530 --> 00:49:31.302 you know 3rd 88 telehealth grants  
NOTE Confidence: 0.888110158333333

00:49:31.302 --> 00:49:33.356 designated as such worth \$381,000,000.  
NOTE Confidence: 0.888110158333333

00:49:33.356 --> 00:49:33.689 And  
NOTE Confidence: 0.93647972125

00:49:36.490 --> 00:49:38.128 NIH has come to us and they and they've  
NOTE Confidence: 0.93647972125

00:49:38.128 --> 00:49:39.645 said for the projects we were doing,  
NOTE Confidence: 0.93647972125

00:49:39.650 --> 00:49:42.210 we'll multiply it by 5:00.  
NOTE Confidence: 0.93647972125

00:49:42.210 --> 00:49:46.250 So the amount of money that's going certainly  
NOTE Confidence: 0.93647972125

00:49:46.250 --> 00:49:48.706 into innovation grants, Ind grants.  
NOTE Confidence: 0.93647972125

00:49:48.706 --> 00:49:51.810 Or DNI grants you know in in NIH

NOTE Confidence: 0.93647972125

00:49:51.902 --> 00:49:54.152 is over \$1.5 billion this year.

NOTE Confidence: 0.93647972125

00:49:54.152 --> 00:49:56.600 It's more than stem cell research.

NOTE Confidence: 0.93647972125

00:49:56.600 --> 00:49:59.064 So the opportunities 11 way is to find

NOTE Confidence: 0.93647972125

00:49:59.064 --> 00:50:00.663 faculty members who are interested

NOTE Confidence: 0.93647972125

00:50:00.663 --> 00:50:02.360 in doing that and can make that

NOTE Confidence: 0.93647972125

00:50:02.360 --> 00:50:04.936 central to what their agenda is And

NOTE Confidence: 0.93647972125

00:50:04.936 --> 00:50:06.489 those individuals will certainly

NOTE Confidence: 0.93647972125

00:50:06.489 --> 00:50:08.775 be aware of where that innovation

NOTE Confidence: 0.93647972125

00:50:08.775 --> 00:50:11.392 interface is and and and often are

NOTE Confidence: 0.93647972125

00:50:11.392 --> 00:50:13.152 interested in teaching about it.

NOTE Confidence: 0.93647972125

00:50:13.160 --> 00:50:15.959 So I I think that's that that's one Ave.

NOTE Confidence: 0.93647972125

00:50:15.960 --> 00:50:17.800 that's very interesting very appealing.

NOTE Confidence: 0.933544666666667

00:50:19.260 --> 00:50:21.816 And I'll give the mic back over to Lee.

NOTE Confidence: 0.933544666666667

00:50:21.820 --> 00:50:23.815 I know we are out of time.

NOTE Confidence: 0.93824092

00:50:24.940 --> 00:50:25.980 You did a wonderful job.

NOTE Confidence: 0.93824092

00:50:25.980 --> 00:50:27.618 In fact you left me two minutes  
NOTE Confidence: 0.93824092

00:50:27.618 --> 00:50:29.658 to to make my own summary comment.  
NOTE Confidence: 0.93824092

00:50:29.660 --> 00:50:32.540 So that was also terrific set  
NOTE Confidence: 0.93824092

00:50:32.540 --> 00:50:35.004 of examples of really trying  
NOTE Confidence: 0.93824092

00:50:35.004 --> 00:50:36.276 to think about this work from  
NOTE Confidence: 0.93824092

00:50:36.276 --> 00:50:37.538 a variety of different lenses.  
NOTE Confidence: 0.93824092

00:50:37.540 --> 00:50:39.724 One thing that struck me as I listened  
NOTE Confidence: 0.93824092

00:50:39.724 --> 00:50:42.006 to really the wide-ranging scope of  
NOTE Confidence: 0.93824092

00:50:42.006 --> 00:50:44.516 the presentations in this section  
NOTE Confidence: 0.93824092

00:50:44.516 --> 00:50:47.510 was when we talked about evaluation.  
NOTE Confidence: 0.93824092

00:50:47.510 --> 00:50:48.662 Or feedback.  
NOTE Confidence: 0.93824092

00:50:48.662 --> 00:50:51.542 It's very different when we  
NOTE Confidence: 0.93824092

00:50:51.542 --> 00:50:54.242 give feedback about social and  
NOTE Confidence: 0.93824092

00:50:54.242 --> 00:50:56.186 emotional qualities like empathy,  
NOTE Confidence: 0.93824092

00:50:56.190 --> 00:50:57.906 Then when we give, you know,  
NOTE Confidence: 0.93824092

00:50:57.910 --> 00:51:00.710 feedback on execution of a of a procedure,

NOTE Confidence: 0.93824092

00:51:00.710 --> 00:51:01.352 you know,

NOTE Confidence: 0.93824092

00:51:01.352 --> 00:51:03.599 the proper execution of a procedure where

NOTE Confidence: 0.93824092

00:51:03.599 --> 00:51:05.722 there may be more easily quantified

NOTE Confidence: 0.93824092

00:51:05.722 --> 00:51:07.805 metrics and where individuals may

NOTE Confidence: 0.93824092

00:51:07.805 --> 00:51:11.112 have a different sense of a personal.

NOTE Confidence: 0.93824092

00:51:11.112 --> 00:51:11.794 Emotional injury.

NOTE Confidence: 0.93824092

00:51:11.794 --> 00:51:13.499 When you give them feedback

NOTE Confidence: 0.93824092

00:51:13.499 --> 00:51:14.869 about their performance,

NOTE Confidence: 0.93824092

00:51:14.870 --> 00:51:16.172 you know when I tell you you

NOTE Confidence: 0.93824092

00:51:16.172 --> 00:51:17.334 didn't tie that suture, right?

NOTE Confidence: 0.93824092

00:51:17.334 --> 00:51:19.446 I can learn to tie that suture better

NOTE Confidence: 0.93824092

00:51:19.446 --> 00:51:21.321 when you tell me that I didn't

NOTE Confidence: 0.93824092

00:51:21.321 --> 00:51:22.949 relate to that patient very well.

NOTE Confidence: 0.93824092

00:51:22.950 --> 00:51:24.216 It it can sometimes be perceived

NOTE Confidence: 0.93824092

00:51:24.216 --> 00:51:25.725 as a sort of personal attack

NOTE Confidence: 0.93824092

00:51:25.725 --> 00:51:26.945 or an emotional attack.  
NOTE Confidence: 0.93824092

00:51:26.950 --> 00:51:29.641 And so it is a wide-ranging set of skills  
NOTE Confidence: 0.93824092

00:51:29.641 --> 00:51:32.027 that we're talking about delivering.  
NOTE Confidence: 0.93824092

00:51:32.030 --> 00:51:35.770 And I think it also reminds us that  
NOTE Confidence: 0.93824092

00:51:35.770 --> 00:51:37.810 our profession has been one based  
NOTE Confidence: 0.93824092

00:51:37.810 --> 00:51:40.177 on the concept of apprenticeship.  
NOTE Confidence: 0.93824092

00:51:40.180 --> 00:51:40.572 Right.  
NOTE Confidence: 0.93824092

00:51:40.572 --> 00:51:42.924 Most of our models of didactic  
NOTE Confidence: 0.93824092

00:51:42.924 --> 00:51:44.540 learning are you come,  
NOTE Confidence: 0.93824092

00:51:44.540 --> 00:51:47.060 you stay with me for several years,  
NOTE Confidence: 0.93824092

00:51:47.060 --> 00:51:50.020 You watch what I do, You learn by my elbow.  
NOTE Confidence: 0.93824092

00:51:50.020 --> 00:51:52.096 And when I think you're ready,  
NOTE Confidence: 0.93824092

00:51:52.100 --> 00:51:53.700 I give you your diploma.  
NOTE Confidence: 0.93824092

00:51:53.700 --> 00:51:55.317 And you can go hang your shingle  
NOTE Confidence: 0.93824092

00:51:55.317 --> 00:51:57.058 up and open your shoe store or,  
NOTE Confidence: 0.93824092

00:51:57.060 --> 00:51:58.740 you know, your, your forge,

NOTE Confidence: 0.93824092

00:51:58.740 --> 00:52:00.938 your blacksmithy forge next to mine or,

NOTE Confidence: 0.93824092

00:52:00.940 --> 00:52:02.205 you know, in the next town, right.

NOTE Confidence: 0.93824092

00:52:02.205 --> 00:52:04.060 It's a very much an apprenticeship model.

NOTE Confidence: 0.93824092

00:52:04.060 --> 00:52:06.140 And we're really talking about,

NOTE Confidence: 0.93824092

00:52:06.140 --> 00:52:07.680 in a lot of ways, shifting that.

NOTE Confidence: 0.93824092

00:52:07.680 --> 00:52:10.380 To more of a measurement and

NOTE Confidence: 0.93824092

00:52:10.380 --> 00:52:12.680 outcome based assessments of

NOTE Confidence: 0.93824092

00:52:12.680 --> 00:52:14.972 competency that that vary, right.

NOTE Confidence: 0.93824092

00:52:14.972 --> 00:52:16.738 So somebody may be ready in a year,

NOTE Confidence: 0.93824092

00:52:16.740 --> 00:52:17.680 someone else might not

NOTE Confidence: 0.93824092

00:52:17.680 --> 00:52:18.855 be ready for five years.

NOTE Confidence: 0.93824092

00:52:18.860 --> 00:52:19.205 Actually,

NOTE Confidence: 0.93824092

00:52:19.205 --> 00:52:19.895 it's interesting.

NOTE Confidence: 0.93824092

00:52:19.895 --> 00:52:21.907 I have colleagues in Germany and

NOTE Confidence: 0.93824092

00:52:21.907 --> 00:52:23.342 in Germany the residency program

NOTE Confidence: 0.93824092

00:52:23.342 --> 00:52:25.634 lasts as long as the chair of the

NOTE Confidence: 0.93824092

00:52:25.634 --> 00:52:27.859 department thinks it takes you to get ready.

NOTE Confidence: 0.93824092

00:52:27.860 --> 00:52:30.086 So some may graduate early and some

NOTE Confidence: 0.93824092

00:52:30.086 --> 00:52:31.780 may graduate several years later.

NOTE Confidence: 0.93824092

00:52:31.780 --> 00:52:33.859 They they don't have a fixed length

NOTE Confidence: 0.93824092

00:52:33.860 --> 00:52:36.849 of time and so it's an interesting.

NOTE Confidence: 0.93824092

00:52:36.850 --> 00:52:38.008 MA is a very different model,

NOTE Confidence: 0.93824092

00:52:38.010 --> 00:52:40.458 but I do think that it raises some

NOTE Confidence: 0.93824092

00:52:40.458 --> 00:52:41.999 really interesting questions well.